operations, beginning and ending at points in specified counties in Pennsylvania and extending to points in the United States. S. Harrison Kahn, suite 733, Investment Building, Washington, D.C. 20005, attorney for applicants.

[SEAL] ROBERT L. OSWALD, *Secretary.*

[FR Doc.73-6703 Filed 4-5-73;8:45 am]

[Notice 39]

MOTOR CARRIER TEMPORARY AUTHORITY APPLICATIONS

MARCH 27, 1973.

The following are notices of filing of applications[1] for temporary authority under section 210a(a) of the Interstate Commerce Act provided for under the new rules of Ex Parte No.-MC-67 (49 CFR 1131), published in the FEDERAL REGISTER, issue of April 27, 1965, effective July 1, 1965. These rules provide that protests to the granting of an application must be filed with the field official named in the FEDERAL REGISTER publication, within 15 calendar days after the date of notice of the filing of the application is published in the FEDERAL REGISTER. One copy of such protests must be served on the applicant, or its authorized representative, if any, and the protests must certify that such service has been made. The protests must be specific as to the service which such protestant can and will offer, and must consist of a signed original and six copies.

A copy of the application is on file, and can be examined at the Office of the Secretary, Interstate Commerce Commission, Washington, D.C., and also in field office to which protests are to be transmitted.

MOTOR CARRIERS OF PROPERTY

No. MC 51146 (sub-No. 313 TA), filed March 19, 1973. Applicant: Schneider Transport, Inc., P.O. Box 2298, Box ZIP 54306, 2661 South Broadway, Green Bay, Wis. 54304. Applicant's representative: Neil DuJardin (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Canned and preserved foodstuffs, from Iowa City, Iowa, to points in Michigan and Wisconsin, and from Muscatine, Iowa, to points in Wisconsin, for 180 days. Restriction: Restricted to traffic originating at the named origins and destined to the named destinations; and further restricted to traffic originating at the plantsites and storage facilities of Heinz U.S.A. Division at the named origins. Supporting shipper: Heinz, U.S.A., division of H.J. Heinz Co., P.O. Box 57, Pittsburgh, Pa. 15230 (Donald S. Horvath, coordinator, Transportation Field Operations). Send protests to: District Supervisor John E. Ryden, Interstate Commerce Commission, Bureau of Operations, 135 West Wells Street, room 807, Milwaukee, Wis. 53203.

No. MC 54444 (sub-No. 3 TA), filed March 19, 1973. Applicant: Main Express & Storage Co., a corporation, 5938 South 13th Street, Milwaukee, Wis. 53221. Applicant's representative: G. Phillip Beitz (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: General commodities (except those of unusual value, classes A and B explosives, household goods as defined by the Commission, commodities in bulk, and those requiring special equipment), between the Flying Tiger terminal, Milwaukee County, Wis., on the one hand, and, on the other hand, O'Hare Field, Cook County, Ill., for 180 days. Restricted to shipments having a prior or subsequent movement by air, moving under airwaybills issued by the Flying Tiger Line. Supporting shipper: The Flying Tiger Line, Inc., 5938 South 13th Street, Milwaukee, Wis. 53221 (James A. Andrulis, account executive). Send protests to: District Supervisor John E. Ryden, Interstate Commerce Commission, Bureau of Operations, 135 West Wells Street, room 807, Milwaukee, Wis. 53203.

No. MC 64600 (sub-No. 42 TA), filed March 20, 1973. Applicant: Wilson Trucking Corp., P.O. Drawer No. 2, Fishersville, Va. 22939. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Cellulose acetate, in bulk, from Narrows (Celco), Va., to Roanoke, Va., for 180 days. Restricted to traffic having a prior or subsequent movement by rail. Supporting shipper: Celanese Fibers Co., Box 1000, Narrows, Va. 24124. Send protests to: Clatin M. Harmon, district supervisor, Bureau of Operations, Interstate Commerce Commission, 215 Campbell Avenue SW., Roanoke, Va. 24011.

No. MC 110098 (sub-No. 133 TA), filed March 19, 1973. Applicant: Zero Refrigerated Lines, P.O. Box 20380, 1400 Ackerman Road, San Antonio, Tex. 78220. Applicant's representative: T. W. Cothren (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Foodstuffs, pet foods and pet supplies, household buffing and polishing compounds, and commodities, the transportaion of which are partially exempt under section 203(b)(6) of the Interstate Commerce Act, when moving in the same vehicles and at the same time with the commodities above described, from the plantsite of the R. T. French Co., at or near Springfield, Mo., to points in Texas, for 180 days. Supporting shipper: the R. T. French Co., 1 Mustard Street, Rochester, N.Y. 14609. Send protests to: Richard H. Dawkins, district supervisor, Bureau of Operations, Interstate Commerce Commission, 301 Broadway Building, room 206, San Antonio, Tex. 78205.

No. MC 111729 (sub-No. 379 TA), filed March 19, 1973. Applicant: Purolator Courier Corp., 2 Nevada Drive, Lake Success (NHP-PO) N.Y. 11040. Applicant's representative: John M. Delany (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Business papers, records, audit and accounting media of all kinds, and business machines, office equipment and accessories thereto, limited to articles and packages not to exceed 50 pounds from one consignor to one consignee on any one day, between Fort Wayne, Ind., on the one hand, and, on the other, Coldwater, Quincy, Hillsdale, Mich.; and Lancaster, Ohio, for 90 days. Supporting shipper: Essex International, Inc., 1601 Wall Street, Fort Wayne, Ind. 46804. Send protests to: Anthony D. Giaimo, district supervisor, Bureau of Operations, Interstate Commerce Commission, 26 Federal Plaza, New York, N.Y. 10007.

No. MC 113009 (sub-No. 7 TA), filed March 19, 1973. Applicant: L. J. Beal & Son, Inc., a corporation, 212 South Main Street, Brooklyn, Mich. 49230. Applicant's representative: Martin J. Leavitt, 1800 Buhl Building, Detroit, Mich. 48226. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Cement, in bulk, from the plantsite of General Portland, Inc., in Lansing, Mich., to Toledo, Ohio, for 180 days. Supporting shipper: C. Paul Knerr, manager of sales, administration and distribution, General Portland, Inc., 709 Clay Street, Fort Wayne, Ind. 46802. Send protests to: C. R. Flemming, district supervisor, Interstate Commerce Commission, Bureau of Operations, 225 Federal Building, Lansing, Mich. 48933.

No. MC 113362 (sub-No. 255 TA), filed March 19, 1973. Applicant: Ellsworth Freight Lines, Inc., 310 East Broadway, Eagle Grove, Iowa 50533. Applicant's representative: Milton D. Adams, Box 562, Austin, Minn. 55912. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Foodstuffs, frozen meats, and nonedible foods, when moving in vehicles equipped with mechanical refrigerated equipment, from Bettendorf, Iowa, to points in Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin, restricted to shipments originating at the facilities of Terminal Ice & Cold Storage Co., at or near Bettendorf, Iowa, for 180 days. Supporting shippers: Lamb-Weston, Inc., division of Amfac, Inc., P.O. Box 23507, Portland, Oreg. 97223, and Terminal Ice & Cold Storage Co., 1618 Southwest First Avenue, Portland, Oreg. 97201. Send protests to: Herbert W. Allen, transportation specialist, Bureau of Operations, Interstate Commerce Commission, 875 Federal Building, Des Moines, Iowa 50309.

No. MC 113843 (sub-No. 192 TA), filed March 16, 1973. Applicant: Refrigerated Foods Express, Inc., a corporation, 316 Summer Street, Boston, Mass. 02210. Applicant's representative: Lawrence T. Shiels (same address as applicant). Authority sought to operate as a common

[1] Except as otherwise specifically noted, each applicant states that there will be no significant effect on the quality of the human environment resulting from approval of its application.

carrier, by motor vehicle, over irregular routes, transporting: Food and food products (except commodities in bulk), from the plantsite of Estee Candy Co., Inc., at Parsippany, N.J., to points in Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, Ohio, Virginia, West Virginia, Wisconsin, that part of Pennsylvania on and west of U.S. Highway 15, and the District of Columbia, for 180 days. Supporting shipper: Estee Candy Co., Inc., 169 Lackawanna Avenue, Parsippany, N.J. 07054. Send protests to: District Supervisor John B. Thomas, Interstate Commerce Commission, Bureau of Operations, 150 Causeway Street, Boston, Mass. 02114.

No. MC 115162 (sub-No. 266 TA), filed March 19, 1973. Applicant: Poole Truck Line, Inc., P.O. Box 500, Evergreen, Ala. 36401. Applicant's representative: Robert E. Tate (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Such merchandise, as is dealt in by lawn and garden dealers, from the plant and warehouse sites of Deere & Co. in Dodge County, Wis., to points in Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee, for 180 days. Supporting shipper: Deere & Co., John Deere Road, Moline, Ill. 61265. Send protests to: Clifford W. White, district supervisor, Interstate Commerce Commission, Bureau of Operations, room 814, 2121 Building, Birmingham, Ala. 35203.

No. MC 119657 (sub-No. 18 TA), filed March 19, 1973. Applicant: George Transit Line, Inc., a corporation, 760–764 Northeast 47th Place, Des Moines, Iowa 50313. Applicant's representative: Kenneth F. Dudley, P.O. Box 279, Ottumwa, Iowa 52501. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: (1) Paper and polyethylene bags, from Des Moines, Iowa, to points in Illinois, North Dakota, and Wisconsin and (2) building materials, furnishings, equipment, materials, and supplies used in the manufacture, processing, sale, or distribution of homes, buildings, or building sections, from Des Moines, Iowa, to points in Arkansas, Colorado, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, and Wisconsin, for 180 days. Supporting shippers: Great Plains Bag Co., 2201 Bell Avenue, Des Moines, Iowa 50321 and Capp Homes, 4721 East 14th Street, Des Moines, Iowa 50313. Send protests to: Herbert W. Allen, transportation specialist, Bureau of Operations, Interstate Commerce Commission, 875 Federal Building, Des Moines, Iowa 50309.

No. MC 125129 (sub-No. 3 TA), filed March 20, 1973. Applicant: R. B. Greene Transportation, Inc., Maple Street, Danielson, Conn. 06239. Applicant's representative: Thomas W. Murreett, 342 North Main Street, West Hartford, Conn. 06117. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Glass containers, bottles, demijohns or jars, caps, covers, stoppers or tops, fiber board boxes, knocked down or folded, in packages, from Dayville (Killingly), Conn., to points on or east of U.S. Highway 91 in Massachusetts, for 180 days. Supporting shipper: Glass Containers Corp., 114 Penn Avenue, Knox, Pa. 16232. Send protests to: David J. Kiernan, district supervisor, Bureau of Operations, Interstate Commerce Commission, 324 U.S. Post Office Building, 135 High Street, Hartford, Conn. 06101.

No. MC 128133 (Sub-No. 7 TA), filed March 19, 1973. Applicant: H. H. Omps, Inc., Route 5, Box 368, Winchester, Va. 22601. Applicant's representative: Frank B. Hand, Jr., P.O. Box 446, Winchester, Va. 22601. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Poultry and animal feed ingredients, in bulk, from points in Frederick County, Va. (except Winchester, Va.), and Rockingham County, Va.; York and Washington Counties, Pa., points in the Pittsburgh, Pa., commercial zone as defined by the Commission, points in Baltimore and Howard Counties, Md., to points in Frederick County, Va., Washington County, Pa. (except Eightyfour, Pa.), Cumberland County, Pa. (except Camp Hill, Pa., and Mechanicsburg, Pa.), Somerset, York, and Dauphin Counties, Pa., points in the Pittsburgh, Pa., commercial zone as defined by the Commission, points in Moore County, N.C. (except Robbins, N.C.), Baltimore, Md., commercial zone as defined by the Commission, and points in Baltimore, Howard, and Anne Arundel Counties, Md., for 180 days. Supporting shipper: Valley Proteins, Inc., P.O. Box 961, Winchester, Va. 22601. Send protests to: Robert D. Caldwell, district supervisor, Bureau of Operations, Interstate Commerce Commission, 12th Street and Constitution Avenue NW., Washington, D.C. 20423.

No. MC 134224 (Sub-No. 5 TA) (Correction), filed January 30, 1973, published in the FEDERAL REGISTER issue of February 22, 1973, and republished as corrected this issue. Applicant: Hauser Trucking Corp., P.O. Box 241, Cobleskill, N.Y. 12043. Applicant's representative: John J. Brady, 75 State Street, Albany, N.Y. 12207. NOTE: The purpose of this partial republication is to add Morrisville, Pa., as an origin point. The rest of the application remains as previously published.

No. MC 138296 (Sub-No. 1 TA), filed March 19, 1973. Applicant: Vanguard Office Furniture Delivery Inc., 10 Java Street, Brooklyn, N.Y. 11222. Applicant's representative: Arthur J. Piken, One Lefrak City Plaza, Flushing, N.Y. 11368. Authority sought to operate as a contract carrier by motor vehicle, over irregular routes, transporting: New furniture, between the facilities of Vanguard Diversified, Inc., its divisions and subsidiaries in New York, N.Y., on the one hand, and, on the other, points in Alabama, Arizona, Arkansas, California, Colorado, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and the District of Columbia, for 180 days. Supporting shipper: Vanguard Diversified, Inc., 10 Java Street, Brooklyn, N.Y. 11222. Send protests to: Marvin Kampel, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 26 Federal Plaza, New York, N.Y. 10007.

No. MC 138498 (sub-No. 1 TA), filed March 19, 1973. Applicant: ASI, Inc., P.O. Box 10444, Jacksonville, Fla. 32207. Applicant's representative: Sol H. Proctor, 2501 Gulf Life Tower, Jacksonville, Fla. 32207. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Baggage, having a prior movement by air, from Jacksonville, Fla., to points in Georgia, for 180 days. Supporting shippers: Eastern Air Lines, Jacksonville, Fla., and Delta Air Lines, Jacksonville, Fla. Send protests to: District Supervisor G. H. Fauss, Jr., Bureau of Operations, Interstate Commerce Commission, Box 35008, 400 West Bay Street, Jacksonville, Fla. 32202.

No. MC 138499 TA, filed March 19, 1973. Applicant: T. E. Martin, doing business as T. E. Martin Mobile Home Transport, P.O. Box 3636, Ludowici, Ga. 31316. Applicant's representative: Richard D. Phillips, P.O. Box 66, Ludowici, Ga. 31316. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Mobile homes and room additions for mobile homes, from points in Tattnall, Appling, Long, Liberty, McIntosh, and Wayne Counties, Ga., to points in Florida, South Carolina, and Alabama, for 180 days. Supporting shippers: Terry's Mobile Homes, P.O. Box 786, Jesup, Ga. 31545, and Woodall's Mobile Homes, Highway 341 South, Baxley, Ga. 31513. Send protests to: District Supervisor G. H. Fauss, Jr., Bureau of Operations, Interstate Commerce Commission, Box 35008, 400 West Bay Street, Jacksonville, Fla. 32202.

No. MC 138500 TA, filed March 19, 1973. Applicant: Industrial Cartage Service, Inc., 588 South Settlemier Street, P.O. Box 160, Woodburn, Oreg. 97071. Applicant's representative: Robert H. Griswold (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Green fresh and salted hides between points in Washington, Oregon, and Idaho, for 180 days. Supporting shippers: Mindel Brokerage Co., P.O. Box 336, Lkea Oswego, Oreg. 97034, and Cahen Trading Co., Inc., P.O. Box 17006, Portland, Oreg. 97217. Send protests to: A. E. Odoms,

district supervisor, Bureau of Operations, Interstate Commerce Commission, 450 Multnomah Building, 319 Southwest Pine Street, Portland, Oreg. 97204.

By the Commission.

[SEAL] ROBERT L. OSWALD, *Secretary.*

[FR Doc.73-6702 Filed 4-5-73;8:45 am]

[Ex Parte No. 241; Rule 19, Exemption 35, Amdt. 1]

NORFOLK SOUTHERN RAILWAY CO.

Exemption Under Provision of Mandatory Car Service Rules

Upon further consideration of exemption No. 35 (Norfolk Southern Railway Co.) issued March 1, 1973 (38 FR 6451; March 9, 1973).

It is ordered, That, under authority vested in me by car service rule 19, exemption No. 35 to the mandatory car service rules ordered in ex parte No. 241 be, and it is hereby, amended to expire April 30, 1973.

This amendment shall become effective March 31, 1973.

Issued at Washington, D.C., March 28, 1973.

INTERSTATE COMMERCE COMMISSION,
[SEAL] LEWIS R. TEEPLE, *Agent.*

[FR Doc.73-6698 Filed 4-5-73;8:45 am]

NORTH STAR COAL CO.

Demurrage and Free Time at Ports

At a session of the Interstate Commerce Commission, Division 3, acting as an appellate division, held at its office in Washington, D.C., on the 30th day of March 1973.

Upon consideration of the petition filed by the North Star Coal Co. on March 21, 1973, requesting an exception to service order No. 1121.

It appearing, that service order No. 1121 was issued by Division 3 in accordance with applicable law and upon its determination that an emergency exists because of an acute shortage of freight cars in all sections of the country; that the petitioner has had ample opportunity to review its operations to avoid the excessive detention of freight cars; that numerous cars are held idle at ports for excessive periods awaiting loading or unloading; and that the petition states no errors of fact or law warranting the relief sought, and for good cause appearing;

It is ordered, That the petition be, and it is hereby, denied.

By the Commission, division 3, acting as an appellate division.

[SEAL] ROBERT L. OSWALD, *Secretary.*

[FR Doc.73-6700 Filed 4-5-73;8:45 am]

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FRIDAY, APRIL 6, 1973
WASHINGTON, D.C.

Volume 38 ■ Number 66

PART II

ENVIRONMENTAL PROTECTION AGENCY

■

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

Asbestos, Beryllium, and Mercury

Title 40—Protection of Environment

CHAPTER 1—ENVIRONMENTAL PROTECTION AGENCY

SUBCHAPTER C—AIR PROGRAMS

PART 61—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

Asbestos, Beryllium, and Mercury

On March 31, 1971 (36 FR 5931), pursuant to section 112 of the Clean Air Act, as amended, the Administrator published an initial list of three hazardous air pollutants which, in his judgment may cause, or contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness. The pollutants were asbestos, beryllium, and mercury. On December 7, 1971 (36 FR 23239), the Administrator proposed standards for these pollutants.

Interested persons participated in the rulemaking by giving testimony at public hearings and by sending comments to EPA. Public hearings were held in New York City on January 18, 1972, and in Los Angeles on February 15 and 16, 1972. A third hearing, scheduled to be held in Kansas City, on February 1, 1972, was canceled because of a lack of requests to participate. Sixty-eight persons gave testimony at the public hearings, and 56 persons sent comments to EPA. Represented were industries, universities, governmental agencies—Federal, State, and local, and environmental groups. Copies of the public hearing records are available at all EPA Regional Offices and at the Division of Stationary Source Enforcement, room 3220, 401 M Street SW., Washington, D.C. 20460, where copies of the comments received are also available.

The bases for the Administrator's determinations that asbestos, beryllium, and mercury are hazardous, the derivations of the standards now adopted, the Environmental Protection Agency's responses to the significant comments received, and the principal revisions to the proposed standards are summarized below. A more detailed statement is available on request from the Emission Standards and Enginering Division, Environmental Protection Agency, Research Triangle Park, N.C. 27711, Attention: Mr. Don Goodwin. In addition, the Administrator is issuing information on control techniques for asbestos, beryllium, and mercury as directed by section 112(b)(2) of the act. Copies of these documents may be obtained free of charge from EPA Regional Offices.

Asbestos

Asbestos is a hazardous air pollutant within the meaning of section 112. Many persons exposed to asbestos dust developed asbestosis when the dust concentration was high or the duration of exposure was long (*1–7*). A large number of studies have shown that there is an association between occupational exposure to asbestos and a higher-than-expected incidence of bronchial cancer (*8–30*). Asbestos also has been identified as a causal factor in the development of mesotheliomas, cancers of the membranes lining the chest and abdomen (*30–47*). There are reports of mesothelioma associated with nonoccupational exposures in the neighborhood of asbestos sources (*38, 42, 47, 48*). An outstanding feature has been the long period, commonly over 30 years, between the first exposure to asbestos and the appearance of a tumor (*49, 50*). There is evidence which indicates that mesothliomas occur after much less exposure to asbestos dust than the exposure associated with asbestos (*51, 52*).

It is not practicable, at this time, to establish allowable numerical concentrations or mass emission limits for asbestos. Satisfactory means of measuring ambient asbestos concentrations have only recently been developed, and satisfactory means of measuring asbestos emissions are still unavailable. Even if satisfactory means of measuring asbestos emissions did exist, the previous unavailability of a satisfactory means of measuring ambient levels of asbestos makes it impossible to estimate even roughly the quantitative relationship between asbestos-caused illness and the doses which caused those illnesses. This is a major problem, since some asbestos caused illnesses have a 30-year latency period.

EPA considered the possibility of banning production, processing, and use of asbestos or banning all emissions of asbestos into the atmosphere, but rejected these approaches. The problem of measuring asbestos emissions would make the latter approach impossible to enforce. Either approach would result in the prohibition of many activities which are extremely important; moreover, the available evidence relating to the health hazards of asbestos does not suggest that such prohibition is necessary to protect public health. For example, demolition of any building containing asbestos fireproofing or insulating materials would have to be prohibited as would the use of materials containing even trace amounts of asbestos which could escape into the atmosphere.

Finally, the available evidence suggests a gradient of effects from direct occupational, to indirect occupational exposure, to families of workers exposed to asbestos and persons in the neighborhood of asbestos sources—in all of which situations asbestos concentrations are undoubtedly high by comparison with most community air. This suggests that there are levels of asbestos exposure that will not be associated with any detectable risk, although these levels are not known (*53*).

It is probable that the effects of asbestos inhalation are cumulative; that is, low-level and/or intermittent exposure to asbestos over a long time may be equally as important in the etiology of asbestotic disease as high level and/or continuous exposure over a shorter period. On the other hand, the available evidence does not indicate that levels of asbestos in most community air cause asbestotic disease. Taking both these considerations into account, the Administrator has determined that, in order to provide an ample margin of safety to protect the public health from asbestos, it is necessary to control emissions from major man-made sources of asbestos emissions into the atmosphere, but that it is not necessary to prohibit all emissions.

In this determination, the Administrator has relied on the National Academy of Sciences' report on asbestos (*53*), which concludes: "Asbestos is too important in our technology and economy for its essential use to be stopped. But, because of the known serious effects of uncontrolled inhalation of asbestos minerals in industry and uncertainty as to the shape and character of the dose-response curve in man, it would be highly imprudent to permit additional contamination of the public environment with asbestos. Continued use at minimal risk to the public requires that the major sources of man-made asbestose emission into the atmosphere be defined and controlled."

The means of control used are limitations on visible emissions with an option in some cases to use designated control equipment, requirements that certain procedures be followed, and prohibitions on the use of certain materials or of certain operations. These means of control are required because of the impossibility at this time of prescribing and enforcing allowable numerical concentrations or mass emission limitations known to provide an ample margin of safety. The alternative of no control of the sources subject to this standard was rejected because of the significant health hazard of unregulated emissions of asbestos into the atmosphere from the designated major sources.

It is the Administrator's judgment that the asbestos sources subject to this standard are the major sources of asbestos emissions. In the absence of quantitative emission data, the Administrator's judgment was based on an national inventory of sources and emissions of asbestos (*54*) and other reports (*53, 55*). The asbestos emissions and emission factors presented in the national inventory were based on information obtained from production and reprocessing companies. This information included production figures, estimates of control equipment efficiency and material balances; it did not include emission test results. The major sources of asbestos emissions were considered to fall into five categories: (1) Mining and milling; (2) manufacturing; (3) fabrication; (4) demolition; and (5) spraying. In determining which of these major sources should be covered by the standard promulgated herein, the Administrator considered the effect other Federal regulations will have on the emissions from such sources and the proximity of such sources to the public. In addition, the Administrator considered comments on the proposed standard and additional technical data not available before proposal. The following paragraphs explain these considerations and the changes made to the standard between proposal and final promulgation.

The promulgated standard applies to asbestos mills, selected manufacturing operations, the use of spray-on asbestos

References at end of article.

materials, demolition operations, and the surfacing of roadways with asbestos tailings. The Administrator will continue to investigate other existing and new sources of asbestos emission and if any of them are found to be major sources, the standard will be revised to cover them.

As applied to mines, the proposed standard would have limited the emissions from drilling operations and prohibited visible emissions of particulate matter from mine roads surfaced with asbestos tailings. The Bureau of Mines has prescribed health and safety regulations (30 CFR 55.5) for the purpose of protecting life, the promotion of health and safety, and the prevention of accidents in open pit metal and nonmetallic mines. As related to asbestos mines, these regulations prohibit persons working in a mine from being exposed to asbestos concentrations which exceed the threshold limit value adopted by the American Conference of Governmental Industrial Hygienists. The regulations specify that respirators shall not be used to prevent persons from being exposed to asbestos where environmental measures are available. For drilling operations, the regulations require that the holes be collared and drilled wet. The regulations recommend that haulage roads, rock transfer points, crushers, and other points where dust (asbestos) is produced sufficient to cause a health or safety hazard be wetted down as often as necessary unless the dust is controlled adequately by other means. In the judgment of the Administrator, implementation of these regulations will prevent asbestos mines from being a major source which must be covered by the standard promulgated herein. Furthermore, the public is sufficiently removed from the mine work environment that their exposure should be significantly less than that of the workers in the work environment. Accordingly, the promulgated standard does not apply to drilling operations or roadways at mine locations.

For asbestos mills, the proposed standard would have applied to ore dumps, open storage areas for asbestos materials, tailings dumps, ore dryers, air for processing ore, air for exhausting particulate material from work areas, and any milling operation which continuously generates inplant visible emissions. The promulgated standard prohibits visible emissions from any part of the mill, but it does not apply to dumps of asbestos tailings or open storage of asbestos ores. The Bureau of Mines' regulations previously referenced and regulations issued by the Occupational Safety and Health Administration (20 CFR 1910.93a) protect workers from the hazards of air contaminants in the work environment. The Occupational Safety and Health Administration regulations were promulgated on June 7, 1972. The regulations are intended to protect the health of employees from asbestos exposure by means of engineering controls (i.e. isolation, enclosures, and dust collection) rather than by personal protective equipment. It is the judgment of the Administrator that measures taken to comply with the Bureau of Mines and Occupational Safety and Health Administration regulations to protect the health of persons who work in proximity to dumps and open storage areas will prevent the dumps and storage areas from being major sources of asbestos emissions.

The proposed standard would have applied to buildings, structures, or facilities within which any fabricating or manufacturing operation is carried on which involves the use of asbestos materials. Comments received on the proposed standard indicated that the requirements for fabricating and manufacturing operations were confusing. Much of the confusion was created by the use of terms such as "any," "continuously," and "forced gas streams." The promulgated standard is more definitive as to applicability of the provisions. The promulgated standard prohibits visible emissions from the nine manufacturing operations which, in the judgment of the Administrator, are major sources of asbestos. The promulgated standard does not cover fabrication operations. Of all fabrication operations, only those operations at new construction sites are considered to be major sources of asbestos emissions. The Occupational Safety and Health Administration regulations specify that all hand- or power-operated tools (i.e. saws, scorers, abrasive wheels, and drills) which produce asbestos dust be provided with dust collection systems. In the judgment of the Administrator, implementation of these regulations will prevent fabrication operations from being a major source which must be covered by the standard promulgated herein.

The proposed standard would have prohibited visible emissions of asbestos particulate material from the repair or demolition of any building or structure other than a single-family dwelling. Comments indicated that the no visible emission requirement would prohibit repair or demolition in many situations, since it would be impracticable, if not impossible, to do such work without creating visible emissions. Accordingly, the promulgated standard specifies certain work practices which must be followed when demolishing certain buildings or structures. The standard covers institutional, industrial, and commercial buildings or structures, including apartment houses having more than four dwelling units, which contain friable asbestos material. This coverage is based on the National Academy of Sciences' report (53) which states, "In general, single-family residential structures contain only small amounts of asbestos insulation. Demolition of industrial and commercial buildings that have been fireproofed with asbestos-containing materials will prove to be an emission source in the future, requiring control measures." Apartment houses with four dwelling units or less are considered to be equivalent to single-family residential structures. The standard requires that the Administrator be notified at least 20 days prior to the commencement of demolition.

The proposed standard would have limited emissions from a number of sources by stipulating that such emissions could not exceed the amounts which would be emitted from the source if the source were equipped with a fabric filter, or, in some cases, a wet-collection air-cleaning device. This would have required a standardized emission-measuring technique, which is not currently available. The promulgated standard prohibits visible emissions which contain asbestos and provides the option of using specified air-cleaning methods. The existence of particulate asbestos material in a gas stream vented to the atmosphere can be determined by collecting a sample on a filter and analyzing it by microscopy techniques. The proposed standard stated that the air-cleaning requirement would not be met if a number of listed faults, e.g., broken bags, leaking gases, threadbare bags, existed and it required that collection hoppers on some baghouses be emptied without generating visible emissions. Comments received suggested that this negative approach tended to make the quality of air-cleaning operations dependent upon the ability of EPA to anticipate and to include in the standard all the factors which would constitute improper methods. Since the intent was, and is, to require high quality air-cleaning operations, the promulgated standard requires proper installation, use, operation, and maintenance without precisely defining the means to be used.

The proposed standard would have prohibited the spraying of any material containing asbestos on any portion of a building or structure, prohibited the spraying of any material containing asbestos in an area directly open to the atmosphere, and limited emissions from all other spraying of any material containing asbestos to the amount which would be emitted if specified air-cleaning equipment were used. Comments received pointed out that this standard would: (1) Prohibit the use of materials containing only the trace amounts of asbestos which occur in numerous natural substances, (2) prohibit the use of materials to which very small quantities of asbestos are added in order to enhance their effectiveness, and (3) prohibit the use of materials in which the asbestos is strongly bound and which would not generate particulate asbestos emissions. The promulgated standard applies to those uses of spray-on asbestos materials which could generate major emissions of particulate asbestos material. For those spray-on materials used to insulate or fireproof buildings, structures, pipes, and conduits, the standard limits the asbestos content to no more than 1 percent. Materials currently used contain from 10- to 80-percent asbestos. The intent of the 1-percent limit is to ban the use of materials which contain significant quantities of asbestos, but to allow the use of materials which would: (1) Contain trace amounts of asbestos which occur in numerous natural substances, and (2) include very small quantities of asbestos (less than 1 percent) added to enhance the material's effectiveness. Although a

standardized reference method has not been developed to quantitatively determine the content of asbestos in a material, there are acceptable methods available, based on electron microscopy, which independent laboratories have developed. Determining the asbestos content of a material with these methods costs approximately $300, and the results are accurate within plus or minus 50 percent; these limits on accuracy were taken into account in establishing the 1-percent limitation.

The proposed standard would have prohibited the surfacing of any roadway with asbestos tailings. The promulgated standard applies to all roadways except those on ore deposits; these roadways are temporary, and control measures taken to comply with the Bureau of Mines regulations prevent them from being a major source which must be covered by the standard promulgated herein. At this time, the application of asbestos tailings to public roadways is not widely practiced, but because of the close proximity of roads to the public, a ban on using asbestos tailings on roadways is included in the promulgated standard to avoid a future problem and stop the practice where it is followed. The term "surfacing" is defined to include the deposit of asbestos tailings on roadways covered with snow or ice; therefore, this practice is prohibited.

Consideration was given to including provisions in the standard requiring proper disposal of the asbestos material generated during demolition and collected in control devices used to comply with the requirements of this standard. It was decided that this was not necessary because the Occupational Safety and Health Administration regulations (29 CFR 1910.93a(h)) include housekeeping and waste disposal requirements. These regulations require that any asbestos waste, consigned for disposal, be collected and disposed of in sealed impermeable bags or other closed, impermeable containers.

The potential environmental impact of the promulgated standard was evaluated, and it was concluded that the standard will not cause any adverse effects. The potentially adverse environmental effects of the standard are:

(1) The asbestos-materials which will be collected in control devices and generated during demolition will have to be disposed of or recycled.

(2) Materials, such as mineral wool, ceramic wool, and fiberglass, will be substituted for asbestos presently contained in spray-applied fireproofing and insulating materials.

In some manufacturing operations, a major portion of the asbestos-material collected by fabric filters is either recycled to the process or is marketed for other uses. For example, one asbestos textile mill recycles large quantities of longer-fiber asbestos for process use and sells more than 90 percent of the remaining collected materials to a brake lining manufacturer. Consequently, a significant portion of the increased quantities of "waste" asbestos materials which will result from the implementation of the standard will not require disposal. Where disposal is required, the Occupational Safety and Health Administration regulations (29 CFR 1910.93a(h)) require that any asbestos waste, consigned for disposal, be collected and disposed of in sealed impermeable bags or other closed, impermeable containers. The contamination of ground water supplies with asbestos from landfill disposal is not considered a potential problem.

The substitution of ceramic wool, mineral wool, and fiberglass for asbestos is not now known to be a problem. There is no evidence that these materials cause health effects in the concentrations found in occupational or ambient environments.

Although the standard was not based on economic considerations, EPA is aware of the impact (*55*) and considers it to be reasonable. Costs among the various sources covered by the standard are quite variable. Although the standard may adversely affect some individual plants or companies which are marginal operations, it appears that such effects will be minimal and the impact to the asbestos industries as a whole will not be large.

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Beryllium

Beryllium is a hazardous air pollutant within the meaning of section 112. The proven effects of airborne beryllium materials on human health include both acute and chronic lethal inhalation effects (*1, 2*), as well as skin and conjunctival effects (*2*). Insufficient data are available to incriminate beryllium as a human carcinogen (*1, 2*), but the lack of of any mechanism for the total elimination of beryllium body burdens, and the resulting possibly long residence time may enhance the opportunity for cancer induction. The Beryllium Registry now contains over 820 proven cases of beryllium-related disease (*3*), but since many of these were most likely due to exposure prior to the institution of controls, proper assessment of the period of exposure is not always possible (*1, 2*); it is known, however, that chronic beryllium disease is associated not only with activities involving extraction processes, but also that 64 registry cases resulted from exposure during machining operations on beryllium materials (*3*). There are at least 45 cases of nonoccupationallyincurred diseases on file with the registry, of which approximately half have been fatal (*3*), and retrospective studies of the concentrations of beryllium that resulted in some cases of chronic beryllium disease from nonoccupational exposure have concluded that the lowest concentration which produced disease was greater than 0.01 $\mu g/m^3$ and probably less than 0.10 $\mu g/m^3$ (*4*).

In 1949, when it became apparent that beryllium was a toxic material, the Atomic Energy Commission adopted a limit for beryllium concentrations in community air (i.e., 0.01 μg of beryllium per cubic meter of air averaged over a 30-day period) (*2*). Beryllium refining companies holding contracts with the AEC to operate AEC-owned refinery facilities and expand their own refinery capacity to meet AEC's beryllium requirements, were required to observe the community air limit. With the termination of these contracts in the 1961–63 period due to a reduction in AEC requirements for beryllium, the refineries were no longer subject to the AEC community air limit. The AEC's health and safety requirements, however, have continued to apply to all AEC-owned facilities, some of which fabricate and assemble beryllium parts.

In the period since the implementation of the AEC guideline, no reported cases of chronic beryllium disease have occurred as a result of community exposure, and the Committee on Toxicology of the National Academy of Sciences concluded that the AEC guideline limit represents a safe level of exposure (*1*).

Accordingly, the Administrator has determined that in order to provide an ample margin of safety to protect the public health from beryllium, sources of beryllium dust, fume, or mist emissions into the atmosphere should be controlled to insure that ambient concentrations of beryllium do not exceed 0.01 $\mu g/m^3$—30-day average.

The beryllium standard covers extraction plants, foundries, ceramic manufacturing plants, machine shops (processing beryllium or beryllium alloys containing in excess of 5 percent beryllium) and disposal of beryllium-containing wastes. Most affected beryllium sources are limited to emissions of not more than 10 grams per day. This level was determined through dispersion estimates as the level which would protect against the occurrence of 30-day average ambient concentrations exceeding 0.01 $\mu g/m^3$. The sources covered by the standard are the only known ones that could result in ambient beryllium concentrations in excess of 0.01 $\mu g/m^3$. The assumptions and equations used to make the dispersion estimates are given in the Background Information Report for Asbestos, Beryllium, and Mercury (APTD-0753), published at the time the standards were proposed.

Rocket testing facilities are required to meet the limit of 75 microgram-minutes per cubic meter, accumulated during any period of 2-consecutive weeks. The limit for rocket testing facilities is the same as that developed in 1966 by the Committee on Toxicology of the National Academy of Sciences for protection of off-site personnel from intermittent exposures to soluble beryllium compounds arising from the firing of rocket motors (*1*).

The proposed standard did not include a provision on open burning of beryllium-containing waste. The promulgated standard includes a ban on open burning of beryllium-containing waste. This change was made because information received after proposal indicated that such sources can cause ambient concentrations of beryllium in excess of 0.01 $\mu g/m^3$ and because it is not possible to control the emissions from open burning. The promulgated standard does allow disposal of beryllium-containing waste in incinerators which are controlled so as not to exceed the 10-gram-per-day limit. The disposal of beryllium-containing explosive waste is included in the standard covering rocket testing.

The proposed standard would have covered all machining operations which use alloys containing any amount of beryllium. Comments were received which claimed that numerous machining operations use alloys containing low concentrations of beryllium and do not exceed the 10-gram-per-day emission limitation. An investigation of these comments revealed that alloys which include beryllium either contain a large amount (greater than 60 percent) or a small amount (less than 5 percent), and that approximately 8,000 machining operations use the low beryllium content alloys. Tests were conducted by the Agency to determine the beryllium emissions from the operations which use the low beryllium content alloys (e.g. stamping, tube drawing, milling, and sawing). The results indicated that even if the emissions were vented to the outside air, which they ordinarily are not, they would be significantly below the 10-gram-per-day emission limitation. After considering these results and the administrative burden if the standard applied to such a large number of sources, the proposed standard was changed to exempt the machining operations which use alloys containing less than 5-percent beryllium.

The proposed standard would have allowed all sources of beryllium to choose between meeting the 10-gram-per-day emission limit and complying by use of ambient monitoring to insure that the 0.01 $\mu g/m^3$ 30-day average is never exceeded. After reconsidering the proposed standard and the difficulty inherent in using ambient air quality data, as opposed to emission data, as a regulatory tool, it was decided to limit the use of ambient data as a means of compliance

References at end of article.

to those sources which have demonstrated over a reasonable past period that they can meet and have met the ambient limitation. Therefore, the standard being promulgated herein allows the ambient option only to existing sources which have 3 years of current ambient air quality data which demonstrate to the Administrator's satisfaction that the 0.01 $\mu g/m^3$ level can be met in the vicinity of the source. A minimum of 3 years of data was judged to be necessary to demonstrate that the ambient guideline of 0.01 $\mu g/m^3$ (30-day average) can be met because of the possibility of monthly, seasonal, and even annual variations in ambient levels caused by variations in meteorology and production. The existing sources which could qualify or this option are four beryllium extraction plants and, possibly, a small number of machine shops. These sources were designed or modified to facilitate compliance with the 0.01 $\mu g/m$ ambient limit.

The potential environmental impact of this standard was evaluated and it was concluded that the standard will not cause any adverse effects. Beryllium is a very expensive material, and most gas streams emitting significant quantities of beryllium are controlled with high efficiency dry collectors, and the collected material is recycled or sold back to the primary producers. Wet collectors are rarely used strictly as an air pollution control device, but more often as an extraction process control device allowing recycle of waste liquids to the process. Absolute filters are often used as final filters and collect small quantities of beryllium from very low concentration gas streams. These filters are usually buried in company owned or segregated dumps or stored in unused mines or buildings. Most of the solid wastes are prepackaged prior to burial to prevent escape of beryllium to the environment.

Although the standard is not based on economic considerations, EPA is aware of the economic impact (*5*) of the standard. Since most of the sources of beryllium emissions are already controlled and in compliance with the standard, the economic impact will be very small.

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MERCURY

Mercury is a hazardous air pollutant within the meaning of section 112. Exposure to metallic mercury vapors may cause central nervous system injury, and renal damage (*1, 3*). Experience with mercury vapor comes almost exclusively from animal experiments and industrial exposures. Animal (rat) data indicate a risk of accumulation in critical systems upon prolonged exposure, with a potential, for example, for selective brain damage (*2, 3*). Prolonged exposure to about 100 micrograms mercury per cubic meter of air involves a definite risk of mercury intoxication (*3*).

To determine the ambient air level of mercury that does not impair health, the airborne burden must be considered together with the water- and food-borne burdens. An expert group concluded, based on its analysis of several episodes of mercury poisoning in Japan, that 4 micrograms of methylmercury per kilogram of bodyweight per day would result in the intoxication of a sensitive adult; application of a safety factor of 10 yielded an acceptable exposure of about 30 micrograms per day for a 70-kilogram man, and this level is also believed to provide satisfactory protection against genetic lesions, and poisoning of the fetus and of children (*4*).

It should be noted that methylmercury is considered to be by far the most hazardous mercury compound, particularly via the ingestion of fish in which it has been concentrated through the food chain, (*3, 5*). The Environmental Protection Agency, in view of the present limited knowledge as to the effects of inhaled mercury in the general population, and in order to best assure the requisite "ample margin of safety to protect the public health," has concluded that it is prudent to consider exposures to methylmercury (diet) and mercury vapor (air) to be equivalent and additive. It has been estimated that from average diets, over a considerable period, mercury intakes of 10 micrograms per day may be expected (*6*), so that, in order to restrict total intake to 30 micrograms per day, the average mercury intake from air would have to be limited to 20 micrograms per day. Assuming inhalation of 20 cubic meters of air per day, the air could contain an average daily concentration of no more than 1 microgram of mercury per cubic meter.

The standard promulgated herein regulates the only two sources, mercury ore processing facilities and mercury cell chlor-alkali plants, which have been found to emit mercury in a manner that could cause the ambient concentration to exceed the inhalation effects limits of 1 microgram per cubic meter. The standard limits emissions from these facilities to not more than 2,300 grams per day. The emission limit of 2,300 grams per day was derived from dispersion estimates as the level which would protect against the violation of an average daily ambient concentration of 1 microgram per cubic meter. The assumptions and equations used to make the dispersion estimates are given in the Background Information Report for Asbestos, Beryllium, and Mercury (APTD–0753), published at the time the standards were proposed.

Many mercury cell chlor-alkali plant cell rooms present severe source testing problems due to their design and construction. Such sources may either reconstruct the cell room so that accurate source tests can be made or employ housekeeping and maintenance practices that minimize mercury emissions from the cell room. Source test data and calculations have indicated that when such practices are used, 1,300 grams per day is a reasonable estimate of emissions from the cell room. Therefore, when this option is chosen, an emission of 1,300 grams per day will be assigned to the cell room. This permits emissions of not more than 1,000 grams per day from the hydrogen and end box ventilation streams combined.

Compliance with the standard will be determined by the EPA reference method or EPA-approved substitute methods. Where a chlor-alkali plant chooses the housekeeping and maintenance practices option, determination of compliance of the cell room emission will be based on the use of EPA-approved practices. A list of approved practices may be obtained from EPA on request to regional offices.

The only major change in the mercury standard is the introduction of the above option of assigning an emission number to the cell room provided certain housekeeping and maintenance requirements are met. When this option is chosen, testing is not required for emissions from the cell room. This option is offered because comments, testimony, and EPA source testing experience indicated that most existing cell rooms cannot be accurately tested for mercury emissions. Accurate emission tests are unduly complicated and costly because of the cell room configuration.

Some of the changes suggested in written comments and public hearing testimony were considered by EPA but not made. The most significant one involved the environmental chemistry of mercury, that is, environmental mercury in the atmosphere is transformed to mercuric oxide by the action of ultraviolet radiation, and since mercuric oxide is not as toxic as elemental mercury, the standard should be less stringent. This argument is based on laboratory experiments under controlled conditions with generated radiation. The reaction cited in the testimony occurs when elemental mercury is irradiated with ultraviolet light with a wavelength of 2,537 angstrom (A). Naturally occurring ozone in the upper atmosphere absorbs light in the ultraviolet region below 3,000 A; (*7*) hence the wavelength of ultraviolet necessary for the reaction is absent in the ambient atmosphere, and the reaction does not proceed at as high a rate as implied by the submitted testimony. Field measurements of both mercury vapors and particulate mercury in ambient air indicate that as much as 96 percent of the mercury de-

References at end of article.

tected was in an elemental vapor form (data collected by EPA at the Federal Building in Moundsville, W. Va.).

The Environmental Protection Agency recognizes that mercury and its compounds constitute a multimedia contapounds constitute a multimedia contamination problem, i.e., strong evidence alter its natural distribution in the environment; that such uses may cause or hasten additional deposits into water or soil over and above those occurring naturally, thereby building up environmental concentrations; and the mercury levels accumulate in the biota, with the result that potentially dangerous residue levels are reached in foods consumed by man and animals.

Current data on the environmental transport of mercury do not permit a clear assessment of the effect of mercury emissions into the atmosphere on the mercury content in the aquatic and terrestrial environments. Results of ongoing research will determine if there is a need for more comprehensive control of mercury emissions into the air. The standard promulgated herein is intended to protect the public health from the effects of inhaled mercury.

The environmental impact of this standard was evaluated and it was concluded that the standard will not cause any adverse effects since the control of mercury emissions to the atmosphere will have only minimal impact on other areas of environmental concern. The simplest control for mercury emissions to the atmosphere is cooling to condense the mercury. This cooling can be indirect or direct. By indirect cooling, the mercury condenses and is retained for recycle or sale. By direct cooling with a water scrubber, the water is usually recirculated after using centrifugal or gravitational separation to remove the mercury. The water cannot be reused indefinitely and eventually requires additional treatment to remove the mercury. In most cases, such treatment facilities are already being utilized to meet water quality standards.

A widely used control device for particulate mercury emissions is the mist eliminator. Residues in these devices are removed by gravity and washing with a recycled liquid. Another control method is chemical scrubbing. In this system, scrubbing liquids are continuously made up while waste materials are usually recycled to the process feed solutions. Recycling of these liquids avoids significant contamination of water with mercury residues.

The use of adsorption beds is a highly efficient control method for removing mercury from gas streams. Two primary types are available: (1) Chemically treated activated carbon beds, and (2) molecular sieves. Most of the mercury collected by activated carbon can be reclaimed by retorting the carbon but this usually destroys the carbon structure and necessitates disposal. Some small amount of residual mercury will remain with the carbon, but it is tightly bound and is not easily transferred into the air or water. Regenerative molecular sieves do not cause a waste disposal problem because the sieves can be regenerated in place without retorting and can be reused many times.

Although the standard was not based on economic considerations, EPA is aware of the impact (*8*) and considers it to be reasonable. Because mercury is an international commodity, world prices determine the fortunes of the domestic mercury mining industry. Historically, mercury prices fluctuate greatly in response to small changes in demand or supply. Domestic mercury mines are considered high-cost producers in relation to foreign producers. Because the average price has dropped from $404 per flask in 1969 to approximately $320 currently, the number of domestic mercury mines in operation has dropped sharply from 109 in 1969 to six or seven in March 1973. As long as the price of mercury remains below marginal costs of production (generally about $400), the remaining domestic mines will be ill equipped to absorb any cost increases.

The total chlor-alkali industry comprises 68 plants. Approximately 28 are mercury cell plants and account for about 27 percent of the U.S. production of chlorine and caustic.

The future of the chlorine-caustic industry appears healthy. Demand for chlorine is expected to grow at an annual rate of 6 percent projected from 1971. Demand for caustic soda will grow at least at the same rate as chlorine, and perhaps faster. Prices for chlorine and sodium hydroxide have been rising steadily through the sixties into 1971. Based on these trends, the cost of control to comply with the mercury standard will be passed forward to the consumer. Use of these two basic commodities is so diverse that any price increases will be well dispersed through all manufacturing activities.

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General Provisions

The standards promulgated below are applicable to new, modified, and existing sources. Any new or modified source must comply with the standards upon beginning operation. Any existing source must comply with the standards within 90 days after promulgation, unless a waiver of compliance is granted.

After considering the proposed general provisions and the comments received on them, the Administrator made several changes which are included in the standards promulgated below. A new section was added to specifically require new stationary sources to notify the Administrator before beginnning operation. The requirements for source reporting and request for waiver of compliance were combined into one section. The time for submitting the source report was extended from 30 to 90 days to provide sources with more time to complete the information required. Appendix A was added to provide sources a description and format of the information required.

The proposed standards required all sources of mercury and beryllium to test their emissions within 3 months of the effective date and at least once every 3 months thereafter; a provision was included to allow the Administrator to waive the periodic tests for sources in compliance with a standard. The standards promulgated below require the initial test within 90 days of the effective date and include a provision to allow the Administrator to waive this requirement if the source is meeting the standard or has requested a waiver of compliance. Periodic tests are not required unless specifically requested by the Administrator. The Administrator may cancel a waiver of emission tests and may require a test under the authority of section 114 of the Act at any time. Appendix A specifies the information which a source must provide the Administrator when applying for a waiver of initial emission testing.

The standards promulgated below do not require the owner or operator to request a waiver of compliance before a specific date. However, the owner or operator should submit the request within 30 days after the effective date of the regulation to be assured that action will be taken on the waiver application prior to the 90th day after the effective date. Continued operation in excess of a standard after the 90th day without a waiver is a violation of the act.

The Administrator may grant an existing source a waiver, permitting a period of up to 2 years for compliance, provided that steps will be taken during the waiver period to assure that the health of persons will be protected from imminent endangerment and provided that such period is necessary for the installation of controls. To be granted a waiver of compliance, a source must submit a written request to the Administrator and provide certain information to assist the Administrator in making a judgment.

Within 60 days after receiving a request, the Administrator will notify the owner or operator of approval or intention to deny the waiver. Any waiver of compliance granted by the Administrator will be in writing and specify conditions the source must meet during the waiver period. If the Administrator intends to deny a request, the owner or operator will be given a specified time to provide additional information or arguments prior to final action on the request. Final action on a request will be in writing by the Administrator, and if denied, will include reasons for denial.

The President may exempt any new, modified, or existing stationary source from compliance with the standards for a period of up to 2 years, provided the technology is not available to implement the standards and the operation of such source is required for reasons of national security. Also, the President may grant exemptions for additional periods of 2 years or less.

The construction of a new source or modification of an existing source covered by these standards cannot begin without approval of the Administrator. To obtain approval, the owner or operator of such sources must apply in writing to the Administrator. Within 60 days, the Administrator will notify the owner or operator of approval or intention to deny approval. If the Administrator intends to deny approval, a specified time will be given to provide additional information or arguments prior to final action on the application. The final action on any application will be in writing by the Administrator, and if denied, will include the reasons for denial.

Although the demolition of buildings or structures containing asbestos material and the spraying of asbestos material will in many cases be modifications of existing stationary sources, the Administrator's approval is not required before beginning such operations. Section 112(c)(1) of the act specifies that no person may construct any new source or modify any existing source "* * * unless the Administrator finds that such source if properly operated will not cause emissions in violation of such standard." The demolition and spraying provisions are expressed in terms of procedures to be followed. Therefore, if the source is properly operated, it will be complying with the standard, and there is no need for the Administrator to make a finding with respect to each new source subject to these provisions.

Each source covered by these standards is required to submit to the Administrator within 90 days after promulgation certain information pertaining to its operation. Changes in the information must be submitted within 30 days after the change, except where the change is considered a modification. Then the requirements for a modified source are applicable.

Three terms are associated with determining compliance by means of source testing: (1) Reference method, (2) equivalent method, and (3) alternative method. Reference methods are the preferred methods of sampling and analyzing used to determine compliance. The reference methods for beryllium and mercury are included in appendix B to this part. An equivalent method is any method of sampling and analyzing which has been demonstrated to the Administrator's satisfaction to have a consistent and quantitatively known relationship to the reference method under specified conditions. An alternative method is any method of sampling and analyzing which does not meet all the criteria for equivalency but which can be used in specific cases to determine compliance. Alternative methods may be approved by the Administrator for source testing; however, in cases where determinations of compliance using an alternative method are disputed, use of the reference method or its equivalent will be required by the Administrator. An approved alternative method for beryllium is included in appendix B hereto.

All emission data provided to or obtained by the Administrator in carrying out these regulations will be available to the public. Records, reports, or information other than trade secrets will be available to the public.

Pursuant to section 112(d)(1) of the act, the Environmental Protection Agency intends to delegate the authority to implement and enforce national emission standards (except with respect to stationary sources owned or operated by the United States) for hazardous air pollutants to any State which submits an adequate procedure to the Administrator. The requisite procedure for requesting such delegation will be issued in the future by the Environmental Protection Agency.

The regulations for the national emission standards for asbestos, beryllium, and mercury are hereby promulgated effective upon promulgation (April 6, 1973).

Dated: March 30, 1973.

ROBERT W. FRI,
Acting Administrator,
Environmental Protection Agency.

A new Part 61 is added to Chapter 1, Title 40, Code of Federal Regulations, as follows:

Subpart A—General Provisions

Sec.
61.01 Applicability.
61.02 Definitions.
61.03 Abbreviations.
61.04 Address.
61.05 Prohibited activities.
61.06 Determination of constructon or modification.
61.07 Application for approval of construction or modification.
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61.09 Notification of startup.
61.10 Source reporting and waiver request.
61.11 Waiver of compliance.
61.12 Emission tests and monitoring.
61.13 Waiver of emission tests.
61.14 Source test and analytical methods.
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Subpart B—National Emission Standard for Asbestos

61.20 Applicability.
61.21 Definitions.
61.22 Emission standard.
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Subpart C—National Emission Standard for Beryllium

61.30 Applicability.
61.31 Definitions.
61.32 Emission standard.
61.33 Stack sampling.
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Subpart D—National Emission Standard for Beryllium Rocket Motor Firing

61.40 Applicability.
61.41 Definitions.
61.42 Emission standard.
61.43 Emission testing—rocket firing or propellant disposal.
61.44 Stack sampling.

Subpart E—National Emission Standard for Mercury

61.50 Applicability.
61.51 Definitions.
61.52 Emission standard.
61.53 Stack sampling.
Appendix A—Compliance Status Information.
Appendix B—Test Methods.
Method 101—Reference method for determination of particulate and gaseous mercury emissions from stationary sources (air streams).
Method 102—Reference method for determination of particulate and gaseous mercury emissions from stationary sources (hydrogen streams).
Method 103—Beryllium screening method.
Method 104—Reference method for determination of beryllium emissions from stationary sources.

AUTHORITY: 42 U.S.C. 1857c-7.

Subpart A—General Provisions

§ 61.01 Applicability.

The provisions of this part apply to the owner or operator of any stationary source for which a standard is prescribed under this part.

§ 61.02 Definitions.

As used in this part, all terms not defined herein shall have the meaning given them in the act:

(a) "Act" means the Clean Air Act (42 U.S.C. 1857 et seq.).

(b) "Administrator" means the Administrator of the Environmental Protection Agency or his authorized representative.

(c) "Alternative method" means any method of sampling and analyzing for an air pollutant which does not meet all of the criteria for equivalency but which has been demonstrated to the Administrator's satisfaction to, in specific cases, produce results adequate for his determination of compliance.

(d) "Commenced" means that an owner or operator has undertaken a continuous program of construction or modification or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of construction or modification.

(e) "Compliance schedule" means the date or dates by which a source or category of sources is required to comply with the standards of this part and with any steps toward such compliance which are set forth in a waiver of compliance under § 61.11.

(f) "Construction" means fabrication, erection, or installation of a stationary source.

(g) "Effective date" is the date of promulgation in the FEDERAL REGISTER of an applicable standard or other regulation under this part.

(h) "Equivalent method" means any method of sampling and analyzing for an air pollutant which has been demonstrated to the Administrator's satisfaction to have a consistent and quantitatively known relationship to the reference method, under specified conditions.

(i) "Existing source" means any stationary source which is not a new source.

(j) "Modification" means any physical change in, or change in the method of operation of, a stationary source which increases the amount of any hazardous air pollutant emitted by such source or which results in the emission of any hazardous air pollutant not previously emitted, except that:

(1) Routine maintenance, repair, and replacement shall not be considered physical changes, and

(2) The following shall not be considered a change in the method of operation:

(i) An increase in the production rate, if such increase does not exceed the operating design capacity of the stationary source;

(ii) An increase in hours of operation.

(k) "New source" means any stationary source, the construction or modification of which is commenced after the publication in the FEDERAL REGISTER of proposed national emission standards for hazardous air pollutants which will be applicable to such source.

(l) "Owner or operator" means any person who owns, leases, operates, controls, or supervises a stationary source.

(m) "Reference method" means any method of sampling and analyzing for an air pollutant, as described in appendix B to this part.

(n) "Startup" means the setting in operation of a stationary source for any purpose.

(o) "Standard" means a national emission standard for a hazardous air pollutant proposed or promulgated under this part.

(p) "Stationary source" means any building, structure, facility, or installation which emits or may emit any air pollutant which has been designated as hazardous by the Administrator.

§ 61.03 Abbreviations.

The abbreviations used in this part have the following meanings:

°C—Degrees Centigrade.
cfm—Cubic feet per minute.
ft²—Square feet.
ft³—Cubic feet.
°F—Degrees Fahrenheit.
in—Inch.
l—Liter.
ml—Milliliter.
M—Molar.
m³—Cubic meter.
nm—Nanometer.
oz—Ounces.
v/v—Volume per volume.
yd²—Square yards.
w.g.—Water gage.
inHg—Inches of mercury.
inH₂O—Inches of water.
g—Grams.
mg—Milligrams.
N—Normal.
°R—Degree Rankine.
min—Minute
sec—Second.
avg.—Average.
I.D.—Inside diameter.
O.D.—Outside diameter.
μg—Micrograms (10^{-6} gram).
%—Percent.
Hg—Mercury.
Be—Beryllium.

§ 61.04 Address.

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate and addressed to the appropriate regional office of the Environmental Protection Agency, to the attention of the Director, Enforcement Division. The regional offices are as follows:

Region I (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont), John F. Kennedy Federal Building, Boston, Mass. 02203.

Region II (New York, New Jersey, Puerto Rico, Virgin Islands), Federal Office Building, 26 Federal Plaza (Foley Square), New York, N.Y. 10007.

Region III (Delaware, District of Columbia, Pennsylvania, Maryland, Virginia, West Virginia), Curtis Building, Sixth and Walnut Streets, Philadelphia, Pa. 19106.

Region IV (Alabama, Florida, Georgia, Mississippi, Kentucky, North Carolina, South Carolina, Tennessee), Suite 300, 1421 Peachtree Street, Atlanta, Ga. 30309.

Region V (Illinois, Indiana, Minnesota, Michigan, Ohio, Wisconsin), 1 North Wacker Drive, Chicago, Ill. 60606.

Region VI (Arkansas, Louisiana, New Mexico, Oklahoma, Texas), 1600 Patterson Street, Dallas, Tex. 75201.

Region VII (Iowa, Kansas, Missouri, Nebraska), 1735 Baltimore Street, Kansas City, Mo. 64108.

Region VIII (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming), 916 Lincoln Towers, 1860 Lincoln Street, Denver, Colo. 80203.

Region IX (Arizona, California, Hawaii, Nevada, Guam, American Samoa), 100 California Street, San Francisco, Calif. 94111.

Region X (Washington, Oregon, Idaho, Alaska), 1200 Sixth Avenue, Seattle, Wash. 98101.

§ 61.05 Prohibited activities.

(a) After the effective date of any standard prescribed under this part, no owner or operator shall construct or modify any stationary source subject to such standard without first obtaining written approval of the Administrator in accordance with this subpart, except under an exemption granted by the President under section 112(c)(2) of the act. Sources, the construction or modification of which commenced after the publication date of the standards proposed to be applicable to such source, are subject to this prohibition.

(b) After the effective date of any standard prescribed under this part, no owner or operator shall operate any new source in violation of such standard except under an exemption granted by the President under section 112(c)(2) of the act.

(c) Ninety days after the effective date of any standard prescribed under this part, no owner or operator shall operate any existing stationary source in violation of such standard, except under a waiver granted by the Administrator in accordance with this subpart or under an exemption granted by the President under section 112(c)(2) of the act.

(d) No owner or operator subject to the provisions of this part shall fail to report, revise reports, or report source test results as required under this part.

§ 61.06 Determination of construction or modification.

Upon written application by an owner or operator, the Administrator will make a determination of whether actions taken or intended to be taken by such owner or operator constitute construction or modification or the commencement thereof within the meaning of this part. The Administrator will within 30 days of receipt of sufficient information to evaluate an application, notify the owner or operator of his determination.

§ 61.07 Application for approval of construction or modification.

(a) The owner or operator of any new source to which a standard prescribed under this part is applicable shall, prior to the date on which construction or modification is planned to commence, or within 30 days after the effective date in the case of a new source that already has commenced construction or modification and has not begun operation, submit to the Administrator an application for approval of such construction or modification. A separate application shall be submitted for each stationary source.

(b) Each application shall include:

(1) The name and address of the applicant.

(2) The location or proposed location of the source.

(3) Technical information describing the proposed nature, size, design, operating design capacity, and method of operation of the source, including a description of any equipment to be used for control of emissions. Such technical information shall include calculations of emission estimates in sufficient detail to permit assessment of the validity of such calculations.

§ 61.08 Approval by Administrator.

(a) The Administrator will, within 60 days of receipt of sufficient information to evaluate an application under § 61.07, notify the owner or operator of approval or intention to deny approval of construction or modification.

(b) If the Administrator determines that a stationary source for which an

application pursuant to § 61.07 was submitted will, if properly operated, not cause emissions in violation of a standard, he will approve the construction or modification of such source.

(c) Prior to denying any application for approval of construction or modification pursuant to this section, the Administrator will notify the owner or operator making such application of the Administrator's intention to issue such denial, together with:

(1) Notice of the information and findings on which such intended denial is based, and

(2) Notice of opportunity for such owner or operator to present, within such time limit as the Administrator shall specify, additional information or arguments to the Administrator prior to final action on such application.

(d) A final determination to deny any application for approval will be in writing and will set forth the specific grounds on which such denial is based. Such final determination will be made within 60 days of presentation of additional information or arguments, or 60 days after the final date specified for presentation, if no presentation is made.

(e) Neither the submission of an application for approval nor the Administrator's granting of approval to construct or modify shall:

(1) Relieve an owner or operator of legal responsibility for compliance with any applicable provision of this part or of any other applicable Federal, State, or local requirement, or

(2) Prevent the Administrator from implementing or enforcing this part or taking any other action under the act.

§ 61.09 Notification of startup.

(a) Any owner or operator of a source which has an initial startup after the effective date of a standard prescribed under this part shall furnish the Administrator written notification as follows:

(1) A notification of the anticipated date of initial startup of the source not more than 60 days nor less than 30 days prior to such date.

(2) A notification of the actual date of initial startup of the source within 15 days after such date.

§ 61.10 Source reporting and waiver request.

(a) The owner or operator of any existing source, or any new source to which a standard prescribed under this part is applicable which had an initial startup which preceded the effective date of a standard prescribed under this part shall, within 90 days after the effective date, provide the following information in writing to the Administrator:

(1) Name and address of the owner or operator.

(2) The location of the source.

(3) The type of hazardous pollutants emitted by the stationary source.

(4) A brief description of the nature, size, design, and method of operation of the stationary source including the operating design capacity of such source. Identify each point of emission for each hazardous pollutant.

(5) The average weight per month of the hazardous materials being processed by the source, over the last 12 months preceding the date of the report.

(6) A description of the existing control equipment for each emission point.

(i) Primary control device(s) for each hazardous pollutant.

(ii) Secondary control device(s) for each hazardous pollutant.

(iii) Estimated control efficiency (percent) for each control device.

(7) A statement by the owner or operator of the source as to whether he can comply with the standards prescribed in this part within 90 days of the effective date.

(b) The owner or operator of an existing source unable to operate in compliance with any standard prescribed under this part may request a waiver of compliance with such standard for a period not exceeding 2 years from the effective date. Any request shall be in writing and shall include the following information:

(1) A description of the controls to be installed to comply with the standard.

(2) A compliance schedule, including the date each step toward compliance will be reached. Such list shall include as a minimum the following dates:

(i) Date by which contracts for emission control systems or process modifications will be awarded, or date by which orders will be issued for the purchase of component parts to accomplish emission control or process modification;

(ii) Date of initiation of onsite construction or installation of emission control equipment or process change;

(iii) Date by which onsite construction or installation of emission control equipment or process modification is to be completed; and

(iv) Date by which final compliance is to be achieved.

(3) A description of interim emission control steps which will be taken during the waiver period.

(c) Changes in the information provided under paragraph (a) of this section shall be provided to the Administrator within 30 days after such change, except that if changes will result from modification of the source, as defined in § 61.02 (j), the provisions of § 61.07 and § 61.08 are applicable.

(d) The format for reporting under this section is included as appendix A of this part. Advice on reporting the status of compliance may be obtained from the Administrator.

§ 61.11 Waiver of compliance.

(a) Based on the information provided in any request under § 61.10, or other information, the Administrator may grant a waiver of compliance with a standard for a period not exceeding 2 years from the effective date of such standard.

(b) Such waiver will be in writing and will:

(1) Identify the stationary source covered.

(2) Specify the termination date of the waiver. The waiver may be terminated at an earlier date if the conditions specified under paragraph (b) (3) of this section are not met.

(3) Specify dates by which steps toward compliance are to be taken; and impose such additional conditions as the Administrator determines to be necessary to assure installation of the necessary controls within the waiver period, and to assure protection of the health of persons during the waiver period.

(c) Prior to denying any request for a waiver pursuant to this section, the Administrator will notify the owner or operator making such request of the Administrator's intention to issue such denial, together with:

(1) Notice of the information and findings on which such intended denial is based, and

(2) Notice of opportunity for such owner or operator to present, within such time limit as the Administrator specifies, additional information or arguments to the Administrator prior to final action on such request.

(d) A final determination to deny any request for a waiver will be in writing and will set forth the specific grounds on which such denial is based. Such final determination will be made within 60 days after presentation of additional information or arguments, or 60 days after the final date specified for such presentation, if no presentation is made.

(e) The granting of a waiver under this section shall not abrogate the Administrator's authority under section 114 of the act.

§ 61.12 Emission tests and monitoring.

(a) Emission tests and monitoring shall be conducted and reported as set forth in this part and appendix B to this part.

(b) The owner or operator of a new source subject to this part, and at the request of the Administrator, the owner or operator of an existing source subject to this part, shall provide or cause to be provided, emission testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such source.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

§ 61.13 Waiver of emission tests.

(a) Emission tests may be waived upon written application to the Administrator if, in his judgment, the source is meeting the standard, or if the source is operating under a waiver of compliance or has requested a waiver of compliance.

(b) If application for waiver of the emission test is made, such application shall accompany the information required by § 61.10. The appropriate form is contained in appendix A to this part.

(c) Approval of any waiver granted pursuant to this section shall not abrogate the Administrator's authority under the act or in any way prohibit the Administrator from later canceling such waiver. Such cancellation will be made only after notice is given to the owner or operator of the source.

§ 61.14 Source test and analytical methods.

(a) Methods 101, 102, and 104 in appendix B to this part shall be used for all source tests required under this part, unless an equivalent method or an alternative method has been approved by the Administrator.

(b) Method 103 in appendix B to this part is hereby approved by the Administrator as an alternative method for sources subject to § 61.32(a) and § 61.42 (b).

(c) The Administrator may, after notice to the owner or operator, withdraw approval of an alternative method granted under paragraph (a) or (b) of this section. Where the test results using an alternative method do not adequately indicate whether a source is in compliance with a standard, the Administrator may require the use of the reference method or its equivalent.

§ 61.15 Availability of information.

(a) Emission data provided to, or otherwise obtained by, the Administrator in accordance with the provisions of this part shall be available to the public.

(b) Any records, reports, or information, other than emission data, provided to, or otherwise obtained by, the Administrator in accordance with the provisions of this part shall be available to the public, except that upon a showing satisfactory to the Administrator by any person that such records, reports, or information, or particular part thereof (other than emission data), if made public, would divulge methods or processes entitled to protection as trade secrets of such person, the Administrator will consider such records, reports, or information, or particular part thereof, confidential in accordance with the purposes of section 1905 of title 18 of the United States Code, except that such records, reports, or information, or particular part thereof, may be disclosed to other officers, employees, or authorized representatives of the United States concerned with carrying out the provisions of the act or when relevant in any proceeding under the act.

§ 61.16 State authority.

(a) The provisions of this part shall not be construed in any manner to preclude any State or political subdivision thereof from:

(1) Adopting and enforcing any emission limiting regulation applicable to a stationary source, provided that such emission limiting regulation is not less stringent than the standards prescribed under this part.

(2) Requiring the owner or operator of a stationary source, other than a stationary source owned or operated by the United States, to obtain permits, licenses, or approvals prior to initiating construction, modification, or operation of such source.

Subpart B—National Emission Standard for Asbestos

§ 61.20 Applicability.

The provisions of this subpart are applicable to those sources specified in § 61.22.

§ 61.21 Definitions.

Terms used in this subpart are defined in the act, in subpart A of this part, or in this section as follows:

(a) "Asbestos" means actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite.

(b) "Asbestos material" means asbestos or any material containing asbestos.

(c) "Particulate asbestos material" means finely divided particles of asbestos material.

(d) "Asbestos tailings" means any solid waste product of asbestos mining or milling operations which contains asbestos.

(e) "Outside air" means the air outside buildings and structures.

(f) "Visible emissions" means any emissions which are visually detectable without the aid of instruments and which contain particulate asbestos material.

§ 61.22 Emission standard.

(a) Asbestos mills: There shall be no visible emissions to the outside air from any asbestos mill except as provided in paragraph (f) of this section. Outside storage of asbestos materials is not considered a part of an asbestos mill.

(b) Roadways: The surfacing of roadways with asbestos tailings is prohibited, except for temporary roadways on an area of asbestos ore deposits. The deposition of asbestos tailings on roadways covered with snow or ice is considered "surfacing."

(c) Manufacturing: There shall be no visible emissions to the outside air, except as provided in paragraph (f) of this section, from any building or structure in which the following operations are conducted or directly from any of the following operations if they are conducted outside of buildings or structures.

(1) The manufacture of cloth, cord, wicks, tubing, tape, twine, rope, thread, yarn, roving, lap, or other textile materials.

(2) The manufacture of cement products.

(3) The manufacture of fireproofing and insulating materials.

(4) The manufacture of friction products.

(5) The manufacture of paper, millboard, and felt.

(6) The manufacture of floor tile.

(7) The manufacture of paints, coatings, caulks, adhesives, sealants.

(8) The manufacture of plastics and rubber materials.

(9) The manufacture of chlorine.

(d) Demolition: Any owner or operator of a demolition operation who intends to demolish any institutional, commercial, or industrial building (including apartment buildings having more than four dwelling units), structure, facility, installation, or portion thereof which contains any boiler, pipe, or load-supporting structural member that is insulated or fireproofed with friable asbestos material shall comply with the requirements set forth in this paragraph.

(1) Notice of intention to demolish shall be provided to the Administrator at least 20 days prior to commencement of such demolition or anytime prior to commencement of demolition subject to paragraph (d)(4) of this section.

Such notice shall include the following information:

(i) Name of owner or operator.

(ii) Address of owner or operator.

(iii) Description of the building, structure, facility, or installation to be demolished.

(iv) Address or location of the building, structure, facility or installation.

(v) Scheduled starting and completion dates of demolition.

(vi) Method of demolition to be employed.

(vii) Procedures to be employed to meet the requirements of this paragraph.

(2) The following procedures shall be used to prevent emissions of particulate asbestos material to outside air:

(i) Friable asbestos materials, used to insulate or fireproof any boiler, pipe, or load-supporting structural member, shall be wetted and removed from any building, structure, facility, or installation subject to this paragraph before wrecking of load-supporting structural members is commenced. The friable asbestos debris shall be wetted adequately to insure that such debris remains wet during all stages of demolition and related handling operations.

(ii) No pipe or load-supporting structural member that is covered with friable asbestos insulating or fireproofing material shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this paragraph, but shall be carefully lowered or taken to ground level.

(iii) No friable asbestos debris shall be dropped or thrown to the ground from any building, structure, facility, or installation subject to this paragraph or from any floor to any floor below. For buildings, structures, facilities, or installations, 50 feet or greater in height, friable asbestos debris shall be transported to the ground via dust-tight chutes or containers.

(3) Sources subject to this paragraph are exempt from the requirements of §§ 61.05(a), 61.07, and 61.09.

(4) Any owner or operator of a demolition operation who intends to demolish a building, structure, facility, or installation to which the provisions of this paragraph would be applicable but which has been declared by proper State or local authority to be structurally unsound and which is in danger of imminent collapse is exempt from the requirements of this paragraph other than the reporting requirements specified by paragraph (d)(1) of this section and the wetting of friable asbestos debris as specified by paragraph (d)(3)(i) of this section.

(e) Spraying: There shall be no visible emissions to the outside air from the spray-on application of materials containing more than 1 percent asbestos, on a dry weight basis, used to insulate or fireproof equipment and machinery, except as provided in paragraph (f) of this section. Spray-on materials used to insulate or fireproof buildings, structures, pipes, and conduits shall contain less than 1 percent asbestos on a dry weight basis.

(1) Sources subject to this paragraph are exempt from the requirements of § 61.05(a), § 61.07, and § 61.09.

(2) Any owner or operator who intends to spray asbestos materials to insulate or fireproof buildings, structures, pipes, conduits, equipment, and machinery shall report such intention to the administrator at least 20 days prior to the commencement of the spraying operation. Such report shall include the following information:

(i) Name of owner or operator.

(ii) Address of owner or operator.

(iii) Location of spraying operation.

(iv) Procedures to be followed to meet the requirements of this paragraph.

(f) Rather than meet the no-visible-emission requirements of paragraphs (a), (c), and (e) of this section, an owner or operator may elect to use the methods specified by § 61.23 to clean emissions containing particulate asbestos material before such emissions escape to, or are vented to, the outside air.

§ 61.23 Air-cleaning.

If air-cleaning is elected, as permitted by § 61.22(f), the requirements of this section must be met.

(a) Fabric filter collection devices must be used, except as noted in paragraphs (b) and (c) of this section. Such devices must be operated at a pressure drop of no more than 4 inches water gage, as measured across the filter fabric. The airflow permeability, as determined by ASTM method D737–69, must not exceed 30 $ft^3/min/ft^2$ for woven fabrics or 35 $ft^3/min/ft^2$ for felted fabrics, except that 40 $ft^3/min/ft^2$ for woven and 45 $ft^3/min/ft^2$ for felted fabrics is allowed for filtering air from asbestos ore dryers. Each square yard of felted fabric must weigh at least 14 ounces and be at least one-sixteenth inch thick throughout. Synthetic fabrics must not contain fill yarn other than that which is spun.

(b) If the use of fabric filters creates a fire or explosion hazard, the administrator may authorize the use of wet collectors designed to operate with a unit contacting energy of at least 40 inches water gage pressure.

(c) The administrator may authorize the use of filtering equipment other than that described in paragraphs (a) and (b) of this section if the owner or operator demonstrates to the satisfaction of the administrator that the filtering of particulate asbestos material is equivalent to that of the described equipment.

(d) All air-cleaning equipment authorized by this section must be properly installed, used, operated, and maintained. Bypass devices may be used only during upset or emergency conditions and then only for so long as it takes to shut down the operation generating the particulate asbestos material.

§ 61.24 Reporting.

The owner or operator of any existing source to which this subpart is applicable shall, within 90 days after the effective date, provide the following information to the administrator:

(a) A description of the emission control equipment used for each process;

(b) If a fabric filter device is used to control emissions, the pressure drop across the fabric filter in inches water gage.

(1) If the fabric filter device utilizes a woven fabric, the airflow permeability in $ft^3/min/ft^2$; and, if the fabric is synthetic, indicate whether the fill yarn is spun or not spun.

(2) If the fabric filter device utilizes a felted fabric, the density in oz/yd^2, the minimum thickness in inches, and the airflow permeability in $ft^3/min/ft^2$.

(c) Such information shall accompany the information required by § 61.10. The appropriate form is contained in appendix A to this part.

Subpart C—National Emission Standard for Beryllium

§ 61.30 Applicability.

The provisions of this subpart are applicable to the following stationary sources:

(a) Extraction plans, ceramic plants, foundries, incinerators, and propellant plants which process beryllium ore, beryllium, beryllium oxide, beryllium alloys, or beryllium-containing waste.

(b) Machine shops which process beryllium, beryllium oxides, or any alloy when such alloy contains more than 5 percent beryllium by weight.

§ 61.31 Definitions.

Terms used in this subpart are defined in the act, in subpart A of this part, or in this section as follows:

(a) "Beryllium" means the element beryllium. Where weights or concentrations are specified, such weights or concentrations apply to beryllium only, excluding the weight or concentration of any associated elements.

(b) "Extraction plant" means a facility chemically processing beryllium ore to beryllium metal, alloy, or oxide, or performing any of the intermediate steps in these processes.

(c) "Beryllium ore" means any naturally occurring material mined or gathered for its beryllium content.

(d) "Machine shop" means a facility performing cutting, grinding, turning, honing, milling, deburring, lapping, electrochemical machining, etching, or other similar operations.

(e) "Ceramic plant" means a manufacturing plant producing ceramic items.

(f) "Foundry" means a facility engaged in the melting or casting of beryllium metal or alloy.

(g) "Beryllium-containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart.

(h) "Incinerator" means any furnace used in the process of burning waste for the primary purpose of reducing the volume of the waste by removing combustible matter.

(i) "Propellant" means a fuel and oxidizer physically or chemically combined which undergoes combustion to provide rocket propulsion.

(j) "Beryllium alloy" means any metal to which beryllium has been added in order to increase its beryllium content and which contains more than 0.1 percent beryllium by weight.

(k) "Propellant plant" means any facility engaged in the mixing, casting, or machining of propellant.

§ 61.32 Emission standard.

(a) Emissions to the atmosphere from stationary sources subject to the provisions of this subpart shall not exceed 10 grams of beryllium over a 24-hour period, except as provided in paragraph (b) of this section.

(b) Rather than meet the requirement of paragraph (a) of this section, an owner or operator may request approval from the Administrator to meet an ambient concentration limit on beryllium in the vicinity of the stationary source of 0.01 $\mu g/m^3$, averaged over a 30-day period.

(1) Approval of such requests may be granted by the Administrator provided that:

(i) At least 3 years of data is available which in the judgment of the Administrator demonstrates that the future ambient concentrations of beryllium in the vicinity of the stationary source will not exceed 0.01 $\mu g/m^3$, averaged over a 30-day period. Such 3-year period shall be the 3 years ending 30 days before the effective date of this standard.

(ii) The owner or operator requests such approval in writing within 30 days after the effective date of this standard.

(iii) The owner or operator submits a report to the Administrator within 45 days after the effective date of this standard which report includes the following information:

(*a*) Description of sampling method including the method and frequency of calibration.

(*b*) Method of sample analysis.

(*c*) Averaging technique for determining 30-day average concentrations.

(*d*) Number, identity, and location (address, coordinates, or distance and heading from plant) of sampling sites.

(*e*) Ground elevations and height above ground of sampling inlets.

(*f*) Plant and sampling area plots showing emission points and sampling sites. Topographic features significantly affecting dispersion including plant building heights and locations shall be included.

(*g*) Information necessary for estimating dispersion including stack height, inside diameter, exit gas temperature, exit velocity or flow rate, and beryllium concentration.

(*h*) A description of data and procedures (methods or models) used to design the air sampling network (i.e., number and location of sampling sites).

(f) Air sampling data indicating beryllium concentrations in the vicinity of the stationary source for the 3-year period specified in paragraph (b)(1) of this section. This data shall be presented chronologically and include the beryllium concentration and location of each individual sample taken by the network and the corresponding 30-day average beryllium concentrations.

(2) Within 60 days after receiving such report, the Administrator will notify the owner or operator in writing whether approval is granted or denied. Prior to denying approval to comply with the provisions of paragraph (b) of this section, the Administrator will consult with representatives of the stationary source for which the demonstration report was submitted.

(c) The burning of beryllium and/or beryllium-containing waste, except propellants, is prohibited except in incinerators, emissions from which must comply with the standard.

§ 61.33 Stack sampling.

(a) Unless a waiver of emission testing is obtained under § 61.13, each owner or operator required to comply with § 61.32(a) shall test emissions from his source.

(1) Within 90 days of the effective date in the case of an existing source or a new source which has an initial startup date preceding the effective date; or

(2) Within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(b) The Administrator shall be notified at least 30 days prior to an emission test so that he may at his option observe the test.

(c) Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which will occur in any 24-hour period. Where emissions depend upon the relative frequency of operation of different types of processes, operating hours, operating capacities, or other factors, the calculation of maximum 24-hour-period emissions will be based on that combination of factors which is likely to occur during the subject period and which result in the maximum emissions. No changes in the operation shall be made, which would potentially increase emissions above that determined by the most recent source test, until a new emission level has been estimated by calculation and the results reported to the Administrator.

(d) All samples shall be analyzed and beryllium emissions shall be determined within 30 days after the source test. All determinations shall be reported to the Administrator by a registered letter dispatched before the close of the next business day following such determination.

(e) Records of emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

§ 61.34 Air sampling.

(a) Stationary sources subject to § 61.32(b) shall locate air sampling sites in accordance with a plan approved by the Administrator. Such sites shall be located in such a manner as is calculated to detect maximum concentrations of beryllium in the ambient air.

(b) All monitoring sites shall be operated continuously except for a reasonable time allowance for instrument maintenance and calibration, for changing filters, or for replacemet of equipment needing major repair.

(c) Filters shall be analyzed and concentrations calculated within 30 days after filters are collected. Records of concentrations at all sampling sites and other data needed to determine such concentrations shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

(d) Concentrations measured at all sampling sites shall be reported to the Administrator every 30 days by a registered letter.

(e) The Administrator may at any time require changes in, or expansion of, the sampling network.

Subpart D—National Emission Standard for Beryllium Rocket Motor Firing

§ 61.40 Applicability.

The provisions of this subpart are applicable to rocket motor test sites.

§ 61.41 Definitions.

Terms used in this subpart are defined in the Act, in Subpart A of this part, or in this section as follows:

(a) "Rocket motor test site" means any building, structure, facility, or installation where the static test firing of a beryllium rocket motor and/or the disposal of beryllium propellant is conducted.

(b) "Beryllium propellant" means any propellant incorporating beryllium.

§ 61.42 Emission standard.

(a) Emissions to the atmosphere from rocket-motor test sites shall not cause time-weighted atmospheric concentrations of beryllium to exceed 75 microgram minutes per cubic meter of air within the limits of 10 to 60 minutes, accumulated during any 2 consecutive weeks, in any area in which an effect adverse to public health could occur.

(b) If combustion products from the firing of beryllium propellant are collected in a closed tank, emissions from such tank shall not exceed 2 grams per hour and a maximum of 10 grams per day.

§ 61.43 Emission testing—rocket firing or propellant disposal.

(a) Ambient air concentrations shall be measured during and after firing of a rocket motor or propellant disposal and in such a manner that the effect of these emissions can be compared with the standard. Such sampling techniques shall be approved by the Administrator.

(b) All samples shall be analyzed and results shall be calculated within 30 days after samples are taken and before any subsequent rocket motor firing or propellant disposal at the given site. All results shall be reported to the Administrator by a registered letter dispatched before the close of the next business day following determination of such results.

(c) Records of air sampling test results and other data needed to determine integrated intermittent concentrations shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

(d) The Administrator shall be notified at least 30 days prior to an air sampling test, so that he may at his option observe the test.

§ 61.44 Stack sampling.

(a) Sources subject to § 61.42(b) shall be continuously sampled, during release of combustion products from the tank, in such a manner that compliance with the standards can be determined. The provisions of § 61.14 shall apply.

(b) All samples shall be analyzed, and beryllium emissions shall be determined within 30 days after samples are taken and before any subsequent rocket motor firing or propellant disposal at the given site. All determinations shall be reported to the Administrator by a registered letter dispatched before the close of the next business day following such determinations.

(c) Records of emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

(d) The Administrator shall be notified at least 30 days prior to an emission test, so that he may at his option observe the test.

Subpart E—National Emission Standard for Mercury

§ 61.50 Applicability.

The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, and to those which use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide.

§ 61.51 Definitions.

Terms used in this subpart are defined in the act, in subpart A of this part, or in this section as follows:

(a) "Mercury" means the element mercury, excluding any associated elements, and includes mercury in particulates, vapors, aerosols, and compounds.

(b) "Mercury ore" means a mineral mined specifically for its mercury content.

(c) "Mercury ore processing facility" means a facility processing mercury ore to obtain mercury.

(d) "Condenser stack gases" mean the gaseous effluent evolved from the stack of processes utilizing heat to extract mercury metal from mercury ore.

(e) "Mercury chlor-alkali cell" means a device which is basically composed of an electrolyzer section and a denuder (decomposer) section and utilizes mercury to produce chlorine gas, hydrogen gas, and alkali metal hydroxide.

(f) "Mercury chlor-alkali electrolyzer" means an electrolytic device which is part of a mercury chlor-alkali cell and utilizes a flowing mercury cathode to produce chlorine gas and alkali metal amalgam.

(g) "Denuder" means a horizontal or vertical container which is part of a mercury chlor-alkali cell and in which water and alkali metal amalgam are converted to alkali metal hydroxide, mercury, and hydrogen gas in a short-circuited, electrolytic reaction.

(h) "Hydrogen gas stream" means a hydrogen stream formed in the chlor-alkali cell denuder.

(i) "End box" means a container(s) located on one or both ends of a mercury chlor-alkali electrolyzer which serves as a connection between the electrolyzer and denuder for rich and stripped amalgam.

(j) "End box ventilation system" means a ventilation system which collects mercury emissions from the end-boxes, the mercury pump sumps, and their water colection systems.

(k) "Cell room" means a structure(s) housing one or more mercury electrolytic chlor-alkali cells.

§ 61.52 Emission standard.

Emissions to the atmosphere from stationary sources subject to the provisions of this subpart shall not exceed 2,300 grams of mercury per 24-hour period.

§ 61.53 Stack sampling.

(a) Mercury ore processing facility.

(1) Unless a waiver of emission testing is obtained under § 61.13, each owner or operator processing mercury ore shall test emissions from his source,

(i) Within 90 days of the effective date in the case of an existing source or a new source which has an initial start-up date preceding the effective date; or

(ii) Within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(2) The Administrator shall be notified at least 30 days prior to an emission test, so that he may at his option observe the test.

(3) Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which will occur in a 24-hour period. No changes in the operation shall be made, which would potentially increase emissions above that determined by the most recent source test, until the new emission level has been estimated by calculation and the results reported to the Administrator.

(4) All samples shall be analyzed, and mercury emissions shall be determined within 30 days after the source test. Each determination will be reported to the Administrator by a registered letter dispatched before the close of the next business day following such determination.

(5) Records of emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

(b) Mercury chlor-alkali plant—hydrogen and end-box ventilation gas streams.

(1) Unless a waiver of emission testing is obtained under § 61.13, each owner or operator employing mercury chlor-alkali cell(s) shall test emissions from his source,

(i) Within 90 days of the effective date in the case of an existing source or a new source which has an initial startup date preceding the effective date; or

(ii) Within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(2) The Administrator shall be notified at least 30 days prior to an emission test, so that he may at his option observe the test.

(3) Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which will occur in a 24-hour period. No changes in the operation shall be made, which would potentially increase emissions above that determined by the most recent source test, until the new emission has been estimated by calculation and the results reported to the Administrator.

(4) All samples shall be analyzed and mercury emisions shall be determined within 30 days after the source test. All the determinations will be reported to the Administrator by a registered letter dispatched before the close of the next business day following such determination.

(5) Records of emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

(c) Mercury chlor-alkali plants—cell room ventilation system.

(1) Stationary sources using mercury chlor-alkali cells may test cell room emissions in accordance with paragraph (c)(2) of this section or demonstrate compliance with paragraph (c)(4) of this section and assume ventilation emissions of 1,300 gms/day of mercury.

(2) Unless a waiver of emission testing is obtained under § 61.13, each owner or operator shall pass all cell room air in forced gas streams through stacks suitable for testing.

(i) Within 90 days of the effective date in the case of an existing source or a new source which has an initial startup date preceding the effective date; or

(ii) Within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(3) The Administrator shall be notified at least 30 days prior to an emission test, so that he may at his option observe the test.

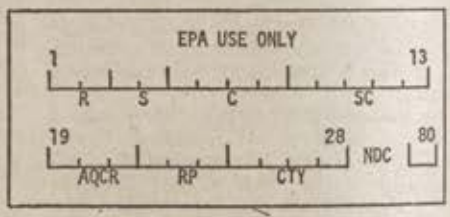
(4) An owner or operator may carry out approved design, maintenance, and housekeeping practices. A list of approved design, maintenance, and housekeeping practices may be obtained from the Administrator.

APPENDIX A

National Emission Standards for Hazardous Air Pollutants

Compliance Status Information

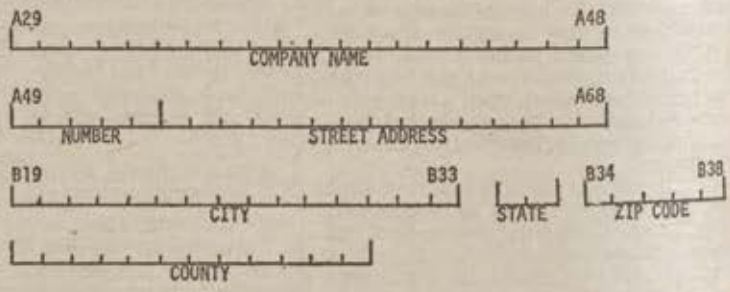
I. SOURCE REPORT



Instructions: Owners or operators of sources of hazardous pollutants subject to the National Emission Standards for Hazardous Air Pollutants are required to submit the information contained in Section I to the appropriate Environmental Protection Agency Regional Office before (date which is 90 days after the standards are promulgated). A listing of regional offices is provided in § 61.04.

A. SOURCE INFORMATION.

1. Identification/Location - Indicate the name and address of each source.



2. Contact - Indicate the name and telephone number of the owner or operator or other responsible official whom EPA may contact concerning this report.



3. Source Description - Briefly state the nature of the source (e.g., "Chlor-alkali Plant", or "Machine Shop").

C19 ... C43

4. Alternative Mailing Address - Indicate an alternative mailing address if correspondence is to be directed to a location different than that specified above.

C44 ... C63
NUMBER STREET ADDRESS

C64 ... C77 C78 C79 D75 ... D79
CITY STATE ZIP CODE

5. Compliance Status - The emissions from this source can cannot meet the emission limitations contained in the National Emission Standards on or before (date which is 90 days after the promulgation of the standards).

Signature of owner, operator or other responsible official

NOTE: If the emissions from the source will exceed those limits set by the National Emission Standards for Hazardous Air Pollutants, the source will be in violation and subject to Federal enforcement actions unless granted a waiver of compliance by the Administrator of the Environmental Protection Agency. The information needed for such waivers is listed in Section II of this form.

EPA USE ONLY G14 G15 G46 ... G53
EP SCC

B. PROCESS INFORMATION. Part B should be completed separately for each point of emission for each hazardous pollutant.

1. Process Description - Provide a brief description of each process (e.g., "hydrogen end box" in a mercury chlor-alkali plant, "grinding machine" in a beryllium machine shop). Use additional sheets if necessary.

G21 ... G45

2. Pollutant Emitted - Indicate the type of hazardous pollutant emitted by the process. Indicate "AB" for asbestos, "BE" for beryllium, or "HG" for mercury.

G19 G20

3. Amount of Pollutant - Indicate the average weight of the hazardous material named in item 2 which enters the process in pounds per month (based on the previous twelve months of operation).

G54 ... G60

4. Control Devices

a. Indicate the type of pollution control devices, if any, used to reduce the emissions from the process (e.g., venturi scrubber, baghouse, wet cyclone) and the estimated percent of the pollutant which the device removes from the process gas stream.

H19 ... H34 H51 H53
PRIMARY CONTROL DEVICE TYPE PERCENT REMOVAL EFFICIENCY

H35 ... H50 H54 H56
SECONDARY CONTROL DEVICE TYPE PERCENT REMOVAL EFFICIENCY

b. Asbestos Emission Control Devices Only

i. If a baghouse is specified in item 4a give the following information:

- The air flow permeability in cubic feet per minute per square foot of fabric area:

Air flow permeability = _____ cfm/ft^2

- The pressure drop in inches water gauge across the filter at which the baghouse is operated

  Operating pressure drop = _____ inches w.g.

- If the baghouse material contains synthetic fill yarn, check whether this material is spun ☐ or not spun ☐.

  If the baghouse utilizes a felted fabric, give the minimum thickness in inches and the density in ounces per square yard.

  Thickness = _____ inches Density = _____ oz/yd^2

ii. If a wet collection device is specified in item 4a, give the designed unit contacting energy in inches water gauge.

Unit contacting energy = _____ inches w.g.

EPA USE ONLY

CC HS7 ☐

II. WAIVER REQUESTS

EPA USE ONLY

1 13

R S C SC

A. WAIVER OF COMPLIANCE. Owners or operators of sources unable to operate in compliance with the National Emission Standards for Hazardous Air Pollutants by (date which is 90 days after the standards are promulgated) may request a waiver of compliance from the Administrator of the Environmental Protection Agency for the time period necessary to install appropriate control devices or make modifications to achieve compliance. The Administrator may grant a waiver of compliance with the standard for a period not exceeding two years from the effective date of the hazardous pollutant standards if he finds that such period is necessary for the installation of controls and that steps will be taken during the period of the waiver to assure that the health of persons will be protected from imminent endangerment.

The reporting information provided in Section I must accompany this application. Applications should be sent to the appropriate EPA regional office.

1. Processes Involved - Indicate the process or processes emitting hazardous pollutants to which emission controls are to be applied.

_____

_____

2. Controls

   a. Describe the proposed type of control device to be added or modification to be made to the process to reduce the emissions of hazardous pollutants to an acceptable level. Use additional sheets if necessary.

_____

_____

_____

   b. Describe the measures that will be taken during the waiver period to assure that the health of persons will be protected from imminent endangerment. Use additional sheets if necessary.

_____

_____

_____

3. Increments of Progress - specify the dates by which the following increments of progress will be met.

   Date by which contracts for emission control systems or process modifications will be awarded; or date by which orders will be issued for the purchase of the component parts to accomplish emission control or process modification.

L54 ☐☐ MONTH ☐☐ DAY L59 ☐☐ YEAR 01

   Date of initiation of on-site construction or installation of emission control equipment or process change.

L54 ☐☐ MONTH ☐☐ DAY L59 ☐☐ YEAR 02

Date by which on-site construction or installation of emission control equipment or process modification is to be completed.

L54 ___ ___ L59 03
MONTH DAY YEAR

Date by which final compliance is to be achieved.

L54 ___ ___ L59 04
MONTH DAY YEAR

_____
Signature of owner or operator

B. WAIVER OF EMISSION TESTS. A waiver of emission testing may be granted to owners or operators of sources of beryllium or mercury pollutants if, in the judgment of the Administrator of the Environmental Protection Agency the emissions from the source comply with the appropriate standard or if the owners or operators of the source have requested a waiver of compliance or have been granted a waiver of compliance.

This application should accompany the reporting information provided in Section I.

1. Reason - State the reasons for requesting a waiver of emission testing. If the reason stated is that the emissions from the source is within the prescribed limits, documentation of this condition must be attached.

_____

_____

_____
Date

_____
Signature of the owner or operator

No. 66—Pt. II——2

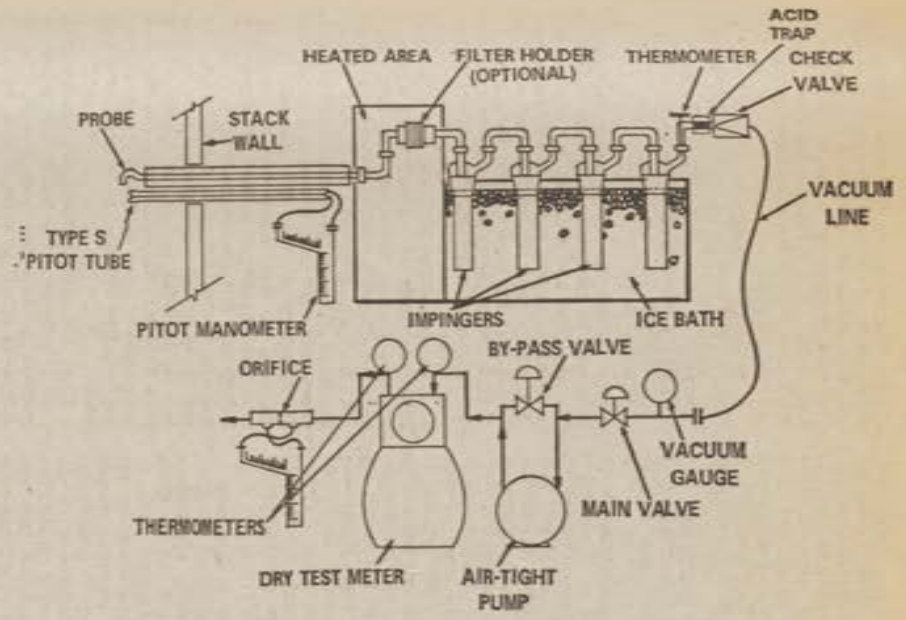


Figure 101-1. Mercury sampling train

Appendix B—Test Methods

Method 101. Reference Method for Determination of Particulate and Gaseous Mercury Emissions From Stationary Sources (Air Streams)

1. *Principle and applicability*—1.1 *Principle.* Particulate and gaseous mercury emissions are isokinetically sampled from the source and collected in acidic iodine monochloride solution. The mercury collected (in the mercuric form) is reduced to elemental mercury in basic solution by hdroxylamine sulfate. Mercury is serated from the solution and analyzed using spectrophotometry.

1.2 *Applicability.* This method is applicable for the determination of particulate and gaseous mercury emissions when the carrier gas stream is principally air. The method is for use in ducts or stacks at stationary sources. Unless otherwise specified, this method is not intended to apply to gas streams other than those emitted directly to the atmosphere without further processing.

2. *Apparatus*—2.1 *Sampling train.* A schematic of the sampling train used by EPA is shown in figure 101-1. Commercial models of this train are available, although construction details are described in APTD-0581,[1] and operating and maintenance procedures are described in APTD-0576. The components essential to this sampling train are the following:

[1] These documents are available for a nominal cost from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Va. 22151.

2.1.1 *Nozzle.* Stainless steel or glass with sharp, tapered leading edge.

2.1.2 *Probe.* Sheathed Pyrex[2] glass. A heating system capable of maintaining a minimum gas temperature of 250° F at the probe outlet during sampling may be used to prevent condensation from occurring.

2.1.3 *Pitot tube.* Type S (Figure 101-2), or equivalent, with a coefficient within 5 percent over the working range, attached to probe to monitor stack gas velocity.

2.1.4 *Impingers.* Four Greenburg-Smith impingers connected in series with glass ball joint fittings. The first, third, and fourth impingers may be modified by replacing the tip with a one-half inch ID glass tube extending to one-half inch from the bottom of the flask.

2.1.5 *Acid Trap.* Mine Safety Appliances Air Line Filter, Catalogue Number 81857, with acid absorbing cartridge and suitable connections, or equivalent.

[2] Mention of trade names or specific products does not constitute endorsement by the Environmental Protection Agency.

2.1.6 *Metering system.* Vacuum gauge, leakless pump, thermometers capable of measuring temperature to within 5° F, dry gas meter with 2 percent accuracy, and related equipment, described in APTD-0581, to maintain an isokinetic sampling rate and to determine sample volume.

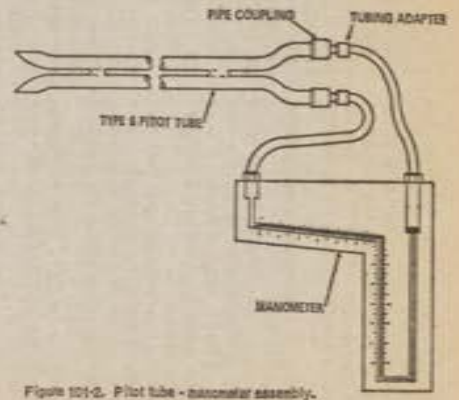


Figure 101-2. Pitot tube - manometer assembly.

2.1.7 *Filter Holder (optional)-Pyrex glass.* A filter may be used in cases where the gas stream to be sampled contains large quan-

tities of particulate matter. The filter holder must provide a positive seal against leakage from outside or around the filter. A heating system capable of maintaining the filter at a minimum temperature of 250° F. should be used to prevent condensation from occurring.

2.1.8 *Barometer.* To measure atmospheric pressure to ±0.1 in Hg.

2.2 *Measurement of stack conditions (stack pressure, temperature, moisture and velocity)*—2.2.1 *Pitot tube.* Type S, or equivalent, with a coefficient within 5 percent over the working range.

2.2.2 *Differential pressure gauge.* Inclined manometer, or equivalent, to measure velocity held to within 10 percent of the minimum value. Micromanometers should be used if warranted.

2.2.3 *Temperature gauge.* Any temperature measuring device to measure stack temperature to within 1° F.

2.2.4 *Pressure gauge.* Pitot tube and inclined manometer, or equivalent, to measure stack pressure to within 0.1 in Hg.

2.2.5 *Moisture determination.* Wet and dry bulb thermometers, drying tubes, condensers, or equivalent, to determine stack gas moisture content to within 1 percent.

2.3 *Sample recovery*—2.3.1 *Leakless glass sample bottles.* 500 ml and 100 ml with Teflon lined tops.

2.3.2 *Graduated cylinder.* 250 ml.

2.3.3 *Plastic jar.* Approximately 300 ml.

2.4 *Analysis*—2.4.1 *Spectrophotometer.* To measure absorbance at 253.7 nm. Perkin Elmer Model 303, with a cylindrical gas cell (approximately 1.5 in. O.D. x 7 in.) with quartz glass windows, and hollow cathode source, or equivalent.

2.4.2 *Gas sampling bubbler.* Tudor Scientific Glass Co., Smog Bubbler, Catalogue No. TP-1150, or equivalent.

2.4.3. *Recorder.* To match output of spectrophotometer.

3. *Reagents*—3.1 *Stock reagents*—3.1.1 *Potassium iodide.* Reagent grade.

3.1.2 *Distilled water*—3.1.3 *Potassium iodide solution, 25 percent.* Dissolve 250 g of potassium iodide (reagent 3.1.1) in distilled water and dilute to 1 to 1.

3.1.4 *Hydrochloric acid.* Concentrated.

3.1.5. *Potassium iodate.* Reagent grade.

3.1.6 *Iodine monochloride (ICl) 1.0M.* To 800 ml. of 25% potassium iodide solution (reagent 3.1.3), add 800 ml. of concentrated hydrochloric acid. Cool to room temperature. With vigorous stirring, slowly add 135 g. of potassium iodate and continue stirring until all free iodine has dissolved to give a clear orange-red solution. Cool to room temperature and dilute to 1800 ml. with distilled water. The solution should be kept in amber bottles to prevent degradation.

3.1.7 *Sodium hydroxide pellets.* Reagent grade.

3.1.8 *Nitric acid.* Concentrated.

3.1.9 *Hydroxylamine sulfate.* Reagent grade.

3.1.10 *Sodium chloride.* Reagent grade.

3.1.11 *Mercuric chloride.* Reagent grade.

3.2 *Sampling*—3.2.1 *Absorbing solution, 0.1M ICl.* Dilute 100 ml. of the 1.0M ICl stock solution (reagent 3.1.6) to 1 to 1 with distilled water. The solution should be kept in glass bottles to prevent degradation. This reagent should be stable for at least 2 months; however, periodic checks should be performed to insure quality.

3.2.2 *Wash acid.* 1:1 V/V nitric acid—water.

3.2.3 *Distilled, deionized water.*

3.2.4 *Silica gel.* Indicating type, 6 to 16 mesh dried at 350° F. for 2 hours.

3.2.5 *Filter (optional).* Glass fiber, Mine Safety Appliances 1106BH, or equivalent. A filter may be necessary in cases where the gas stream to be sampled contains large quantities of particulate matter.

3.3 *Analysis*—3.3.1 *Sodium hydroxide, 10 N.*—Dissolve 400 g of sodium hydroxide pellets in distilled water and dilute to 1 to 1.

3.3.2 *Reducing agent, 12 percent hydroxylamine sulfate, 12 percent sodium chloride.*—To 60 ml of distilled water, add 12 g of hydroxylamine sulfate and 12 g of sodium chloride. Dilute to 100 ml. This quantity is sufficient for 20 analyses and must be prepared daily.

3.3.3 *Aeration gas.*—Zero grade air.

3.3.4 *Hydrochloric acid, 0.3N.*—Dilute 25.5 ml of concentrated hydrochloric acid to 1 to 1 with distilled water.

3.4 *Standard mercury solutions*—3.4.1 *Stock solution.*—Add 0.1354 g of mercuric chloride to 80 ml of 0.3N hydrochloric acid. After the mercuric chloride has dissolved, add 0.3N hydrochloric acid and adjust the volume to 100 ml. One ml of this solution is equivalent to 1 mg of free mercury.

3.4.2 *Standard solutions.*—Prepare calibration solutions by serially diluting the stock solution (3.4.1) with 0.3N hydrochloric acid. Prepare solutions at concentrations in the linear working range for the instrument to be used. Soutions of 0.2 μg/ml, 0.4 μg/ml and 0.6 μg/ml have been found acceptable for most instruments. Store all solutions in glass-stoppered, glass bottles. These solutions should be stable for at least 2 months; however, periodic checks should be performed to insure quality.

4. *Procedure.*—4.1 Guidelines for source testing are detailed in the following sections. These guidelines are generally applicable; however, most sample sites differ to some degree and temporary alterations such as stack extensions or expansions often are required to ensure the best possible sample site. Further, since mercury is hazardous, care should be taken to minimize exposure. Finally, since the total quantity of mercury to be collected generally is small, the test must be carefully conducted to prevent contamination or loss of sample.

4.2 Selection of a sampling site and minimum number of traverse points:

4.2.1 Select a suitable sampling site that is as close as is practicable to the point of atmospheric emission. If possible, stacks smaller than 1 foot in diameter should not be sampled.

4.2.2 The sampling site should be at least eight stack or duct diameters downstream and two diameters upstream from any flow disturbance such as a bend, expansion, or contraction. For a rectangular cross section, determine an equivalent diameter from the following equation:

$$D_e = \frac{2LW}{L+W} \qquad \text{eq. 101-1}$$

where:

D_e = Equivalent diameter.
L = Length.
W = Width.

4.2.3 When the above sampling site criteria can be met, the minimum number of traverse points is four (4) for stacks 1 foot in diameter or less, eight (8) for stacks larger than 1 foot but 2 feet in diameter or less, and twelve (12) for stacks larger than 2 feet.

4.2.4 Some sampling situations may render the above sampling site criteria impractical. When this is the case, choose a convenient sampling location and use figure 101-3 to determine the minimum number of traverse points. However, use figure 101-3 only for stacks 1 foot in diameter or larger.

4.2.5 To use figure 101-3, first measure the distance from the chosen sampling location to the nearest upstream and downstream disturbances. Divide this distance by the diameter or equivalent diameter to determine the distance in terms of pipe diameters. Determine the corresponding number of traverse points for each distance from figure 101-3. Select the higher of the two numbers of traverse points, or a greater value, such that for circular stacks the number is a multiple of four, and for rectangular stacks the number follows the criteria of section 4.3.2.

4.2.6 If a selected sampling point is closer than 1 inch from the stack wall, adjust the location of that point to ensure that the sample is taken at least 1 inch away from the wall.

4.3 Cross sectional layout and location of traverse points:

4.3.1 For circular stacks locate the traverse points on at least two diameters according to figure 101-4 and table 101-1. The traverse axes shall divide the stack cross section into equal parts.

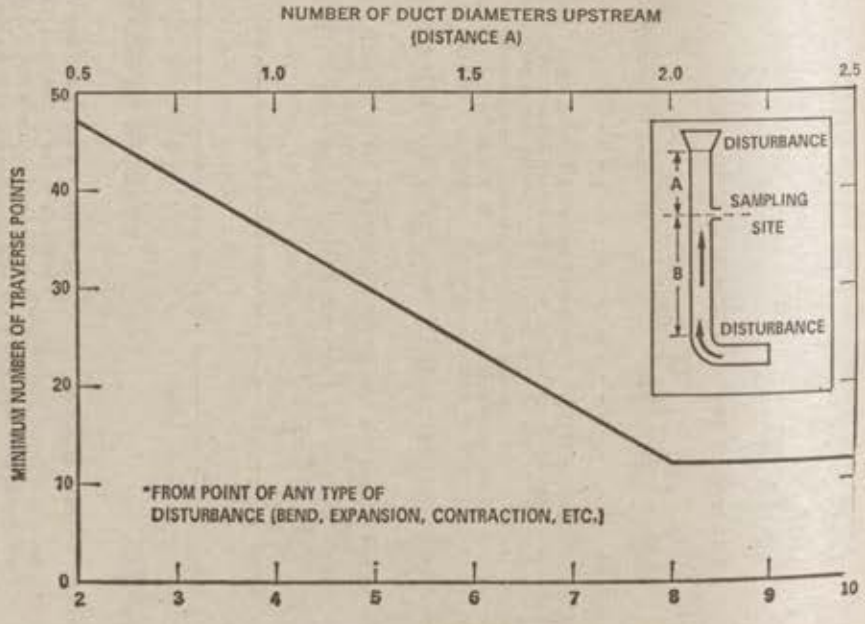


Figure 102-3. Minimum of traverse points.

Table 101-1. Location of traverse points in circular stacks
(Percent of stack diameter from inside wall to traverse point)

Traverse point number on a diameter	Number of traverse points on a diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
1	14.6	6.7	4.4	3.3	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	85.4	25.0	14.7	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2
3		75.0	29.5	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6.0	5.5
4		93.3	70.5	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9
5			85.3	67.7	34.2	25.0	20.1	16.9	14.6	12.9	11.6	10.5
6			95.6	80.6	65.8	35.5	26.9	22.0	18.8	16.5	14.6	13.2
7				89.5	77.4	64.5	36.6	28.3	23.6	20.4	18.0	16.1
8				96.7	85.4	75.0	63.4	37.5	29.6	25.0	21.8	19.4
9					91.8	82.3	73.1	62.5	38.2	30.6	26.1	23.0
10					97.5	88.2	79.9	71.7	61.8	38.8	31.5	27.2
11						93.3	85.4	78.0	70.4	61.2	39.3	32.3
12						97.9	90.1	83.1	76.4	69.4	60.7	39.8
13							94.3	87.5	81.2	75.0	68.5	60.2
14							98.2	91.5	85.4	79.6	73.9	67.7*
15								95.1	89.1	83.5	78.2	72.8
16								98.4	92.5	87.1	82.0	77.0
17									95.6	90.3	85.4	80.6
18									98.6	93.3	88.4	83.9
19										96.1	91.3	86.8
20										98.7	94.0	89.5
21											96.5	92.1
22											98.9	94.5
23												96.8
24												98.9



Figure 101-4. Cross section of circular stack showing location of traverse points on perpendicular diameters.

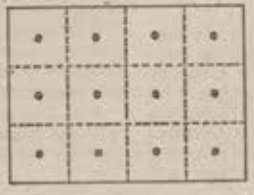


Figure 101-5. Cross section of rectangular stack divided into 12 equal areas, with traverse points at centroid of each area.

4.3.2 For rectangular stacks divide the cross section into as many equal rectangular areas as traverse points, such that the ratio of the length to the width of the elemental areas is between one and two. Locate the traverse points at the centroid of each equal area according to figure 101-5.

4.4 Measurement of stack conditions:

4.4.1 Set up the apparatus as shown in figure 101-2. Make sure all connections are tight and leak-free. Measure the velocity head and temperature at the traverse points specified by section 4.2 and 4.3.

4.4.2 Measure the static pressure in the stack.

4.4.3 Determine the stack gas moisture.

4.4.4 Determine the stack gas molecular weight from the measured moisture content and knowledge of the expected gas stream composition. A standard Orsat analyzer has been found valuable at combustion sources. In all cases, sound engineering judgment should be used.

4.5 Preparation of sampling train:

4.5.1 Prior to assembly, clean all glassware (probe, impingers, and connectors) by rinsing with wash acid, tap water, 0.1M ICl, tap water, and finally distilled water. Place 100 ml of 0.1M ICl in each of the first three impingers, and place approximately 200 g of preweighed silica gel in the fourth impinger. Save 80 ml of the 0.1M ICl as a blank in the sample analysis. Set up the train and the probe as in figure 101-1.

4.5.2 If the gas stream to be sampled is excessively dirty or moist, the first impinger may clog or become dilute too rapidly for sufficient testing. A filter can be placed ahead of the impingers to collect the particulates. An initial empty impinger may also be used to remove excess moisture. If a fifth impinger is required, the final impinger may have to be carefully taped to the outside of the sample box.

4.5.3 Leak check the sampling train at the sampling site. The leakage rate should not be in excess of 1 percent of the desired sampling rate. If condensation in the probe or filter is a problem, probe and filter heaters will be required. Adjust the heaters to provide a temperature of at least 250° F. Place crushed ice around the impingers. Add more ice during the test to keep the temperature of the gases leaving the last impinger at 70° F or less.

4.6 Mercury train operation:

4.6.1 For each run, record the data required on the example sheet shown in figure 101-6. Take readings at each sampling point at least every 5 minutes and when significant changes in stack conditions necessitate additional adjustments in flow rate.

4.6.2 Sample at a rate of 0.5 to 1.0 cfm. Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which would occur in a 24-hour period. In the case of cyclic operations, sufficient tests shall be made so as to allow accurate determination or calculation of the emissions which will occur over the duration of the cycle. A minimum sample time of 2 hours is recommended. In some instances, high mercury concentrations can prevent sampling in one run for the desired minimum time. This is indicated by reddening in the first impinger as free iodine is liberated. In this case, a run may be divided into two or more subruns to ensure that the absorbing solutions are not depleted.

PLANT _____
LOCATION _____
OPERATOR _____
DATE _____
RUN NO. _____
SAMPLE BOX NO. _____
METER BOX NO. _____
METER $\Delta H_@$ _____
C FACTOR _____

SCHEMATIC OF STACK CROSS SECTION

AMBIENT TEMPERATURE _____
BAROMETRIC PRESSURE _____
ASSUMED MOISTURE, % _____
HEATER BOX SETTING _____
PROBE LENGTH, in. _____
NOZZLE DIAMETER, in. _____
PROBE HEATER SETTING _____

TRAVERSE POINT NUMBER	SAMPLING TIME (θ), min.	STATIC PRESSURE (P_g), in. Hg	STACK TEMPERATURE (T_s), °F	VELOCITY HEAD (ΔP_s),	PRESSURE DIFFERENTIAL ACROSS ORIFICE METER (ΔH), in. H_2O	GAS SAMPLE VOLUME (Vmt), ft^3	GAS SAMPLE TEMPERATURE AT DRY GAS METER		SAMPLE BOX TEMPERATURE, °F	IMPINGER TEMPERATURE, °F
							INLET ($T_{m_{in}}$), °F	OUTLET ($T_{m_{out}}$), °F		
TOTAL							Avg.	Avg.		
AVERAGE							Avg.			

Figure 101-6. Field data

4.6.3 To begin sampling, position the nozzle at the first traverse point with the tip pointing directly into the gas stream. Immediately start the pump and adjust the flow to isokinetic conditions. Sample for at least 5 minutes at each traverse point; sampling time must be the same for each point. Maintain isokinetic sampling throughout the sampling period. Nomographs which aid in the rapid adjustment of the sampling rate without other computations are in APTD-0576 and are available from commercial suppliers. Note the standard nomographs are applicable only for type S pitot tubes and air or a stack gas with an equivalent density. Contact EPA or the sampling train supplier for instructions when the standard nomograph is not applicable.

4.6.4 Turn off the pump at the conclusion of each run and record the final readings. Immediately remove the probe and nozzle from the stack and handle in accordance with the sample recovery process described in section 4.7.

4.7 Sample recovery:

4.7.1 (All glass storage bottles and the graduated cylinder must be precleaned as in section 4.5.1). This operation should be performed in an area free of possible mercury contamination. Industrial laboratories and ambient air around mercury-using facilities are not normally free of mercury contamination. When the sampling train is moved, care must be exercised to prevent breakage and contamination.

4.7.2 Disconnect the probe from the impinger train. Place the contents (measured to ±1 ml) of the first three impingers into a 500 ml sample bottle. Rinse the probe and all glassware between it and the back half of the third impinger with two 50 ml portions of 0.1M ICl solution. Add these rinses to the first sample bottle. For a blank, place 80 ml of the 0.1M ICl in a 100 ml sample bottle. If used, place the filter along with 100 ml of 0.1M ICl in another 100 ml sample bottle. Retain a filter blank. Place the silica gel in the plastic jar. Seal and secure all containers for shipment. If an additional test is desired, the glassware can be carefully double rinsed with distilled water and reassembled. However, if the glassware is to be out of use more than 2 days, the initial acid wash procedure must be followed.

4.8 Analysis:

4.8.1 *Apparatus preparation.*—Clean all glassware according to the procedure of section 4.5.1. Adjust the instrument settings according to the instrument manual, using an absorption wavelength of 253.7 nm.

4.8.2 *Analysis preparation.*—Adjust the air delivery pressure and the needle valve to obtain a constant airflow of about 1.3 to 1/min. The analysis tube should be bypassed except during aeration. Purge the equipment for 2 minutes. Prepare a sample of mercury standard solution (3.4.2) according to section 4.8.3. Place the analysis tube in the line, and aerate until a mixmum peak height is reached on the recorder. Remove the analysis tube, flush the lines, and rinse the analysis tube with distilled water. Repeat with another sample of the same standard solution. This purge and analysis cycle is to be repeated until peak heights are reproducible.

4.8.3 *Sample preparation.*—Just prior to analysis, transfer a sample aliquot of up to 50 ml to the cleaned 100 ml analysis tube. Adjust the volume to 50 ml with 0.1M ICl if required. Add 5 ml of 10 N sodium hydroxide, cap tube with a clean glass stopper and shake vigorously. Prolonged, vigorous shaking at this point is necessary to obtain an accurate analysis. Add 5 ml of the reducing agent (reagent 3.3.2), cap tube with a clean glass stopper and shake vigorously and immediately in sample line.

4.8.4 *Mercury determination.*—After the system has been stabilized, prepare samples from the sample bottle according to section 4.8.3. Aerate the sample until a maximum peak height is reached on the recorder. The mercury content is determined by comparing the peak heights of the samples to the peak heights of the calibration solutions. If collected samples are out of the linear range, the samples should be diluted. Prepare a blank from the 100 ml bottle according to section 4.8.3 and analyze to determine the reagent blank mercury level.

5. *Calibration.*—5.1 *Sampling train.*—5.1.1 Use standard methods and equipment as detailed in APTD-0576 to calibrate the rate meter, pitot tube, dry gas meter, and probe heater (if used). Recalibrate prior to each test series.

5.2 *Analysis.*—5.2.1 Prepare a calibration curve for the spectrophotometer using the standard mercury solutions. Plot the peak heights read on the recorder versus the concentrations of mercury in the standard solutions. Standards should be interspersed with the samples since the calibration can change slightly with time. A new calibration curve should be prepared for each new set of samples run.

6. *Calculations.*—6.1 Average dry gas meter temperature, stack temperature, stack pressure and average orifice pressure drop. See data sheet (fig. 101-6).

6.2 *Dry gas volume.*—Correct the sample volume measured by the dry gas meter to stack conditions by using equation 101-2.

$$V_{m_s} = V_m \frac{T_s}{T_m} \frac{\left(P_{bar} + \frac{\Delta H}{13.6}\right)}{P_s} \qquad \text{eq. 101-2}$$

where:

V_{m_s} = Volume of gas sample through the dry gas meter (stack conditions), ft^3.

V_m = Volume of gas sample through the dry gas meter (meter conditions), ft^3.

T_s = Average temperature of stack gas, °R.

T_m = Average dry gas meter temperature, °R.

P_{bar} = Barometric pressure at the orifice meter, inHg.

ΔH = Average pressure drop across the orifice meter, inH_2O.

13.6 = Specific gravity of mercury.

P_s = Stack pressure, $P_{bar} \pm$ static pressure, inHg.

6.3 *Volume of water vapor.*

$$V_{w_s} = K_w V_{l_c} \frac{T_s}{P_s} \quad \text{eq. 101-3}$$

where:

V_{w_s} = Volume of water vapor in the gas sample (stack conditions), ft³.

$K_w = 0.00267 \frac{\text{in. Hg-ft}^3}{\text{ml.-°R}}$, when these units are used.

V_{l_c} = Total volume of liquid collected in impingers and silica gel (see figure 101-7), ml.

T_s = Average stack gas temperature, °R.

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in. Hg.

6.4 Total gas volume.

$$V_{total} = V_{m_s} + V_{w_s} \quad \text{eq. 101-4}$$

where:

V_{total} = Total volume of gas sample (stack conditions), ft³.

V_{m_s} = Volume of gas through gas meter (stack conditions), ft³.

V_{w_s} = Volume of water vapor in gas sample (stack conditions), ft³.

	VOLUME OF LIQUID WATER COLLECTED	
	IMPINGER VOLUME, ml	SILICA GEL WEIGHT, g
FINAL		
INITIAL		
LIQUID COLLECTED		
TOTAL VOLUME COLLECTED		g* | ml

CONVERT WEIGHT OF WATER TO VOLUME BY dividing total weight INCREASE BY DENSITY OF WATER. (1 g/ml)

$$\frac{\text{INCREASE, g}}{(1\ \text{g/ml})} = \text{VOLUME WATER, ml}$$

Figure 101-7. Analytical data.

6.5 Stack gas velocity. Use equation 101-5 to calculate the stack gas velocity.

$$(v_s)_{avg.} = K_p C_p (\sqrt{\Delta P})_{avg.} \sqrt{\frac{(T_s)_{avg.}}{P_s M_s}}$$

eq. 101-5

where:

$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

$K_p = 85.53 \frac{\text{ft.}}{\text{sec.}} \left(\frac{\text{lb.-in. Hg}}{\text{lb.-mole-°R-in. H}_2\text{O}} \right)^{1/2}$, when these units are used.

C_p = Pitot tube coefficient, dimensionless.

$(T_s)_{avg.}$ = Average stack gas temperature, °R.

$(\sqrt{\Delta P})_{avg.}$ = Average square root of the velocity head of stack gas (in. H_2O)$^{1/2}$ (see fig. 101-8).

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in. Hg.

M_s = Molecular weight of stack gas (wet basis), the summation of the products of the molecular weight of each component multiplied by its volumetric proportion in the mixture, lb./lb. mole.

Figure 101-8 shows a sample recording sheet for velocity traverse data. Use the averages in the last two columns of figure 101-8 to determine the average stack gas velocity from equation 101-5.

6.6 Mercury collected. Calculate the total weight of mercury collected by using equation 101-6.

$$W_t = V_t C_t - V_s C_s \ (+ V_r C_r) \quad \text{eq. 101-6}$$

where:

W_t = total weight of mercury collected, μg.

PLANT_____

DATE_____

RUN NO._____

STACK DIAMETER, in._____

BAROMETRIC PRESSURE, in. Hg._____

STATIC PRESSURE IN STACK (P_g), in. Hg._____

OPERATORS_____

SCHEMATIC OF STACK CROSS SECTION

Traverse point number	Velocity head, in. H_2O	$\sqrt{\Delta_P}$	Stack Temperature (T_S), °F
	AVERAGE:		

Figure 101-8. Velocity traverse data.

V_t = Total volume of condensed moisture and ICl in sample bottle, ml.
C_t = Concentration of mercury measured in sample bottle, μg/ml.
V_b = Total volume of ICl used in sampling (impinger contents and all wash amounts), ml.
C_b = Blank concentration of mercury in ICl solution, μg/ml.
V_f = Total volume of ICl used in filter bottle (if used), ml.
C_f = Concentration of mercury in filter bottle (if used), μg/ml.

6.7 Total mercury emission. Calculate the total amount of mercury emitted from each stack per day by equation 101–7. This equation is applicable for continuous operations. For cyclic operations, use only the time per day each stack is in operation. The total mercury emissions from a source will be the summation of results from all stacks.

$$R = \frac{W_t(v_s)_{avg.} A_s}{V_{total}} \times \frac{86{,}400 \text{ seconds/day}}{10^9 \ \mu g/g.} \qquad \text{eq. 101–7}$$

where:
R = Rate of emission, g/day.
W_t = Total weight of mercury collected, μg.
V_{total} = Total volume of gas sample (stack conditions), ft³.
$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.
A_s = Stack area, ft².

6.8 Isokinetic variation (comparison of velocity of gas in probe tip to stack velocity).

$$I = \frac{100 V_{total}}{A_n \oplus (v_s)_{avg.}} \qquad \text{eq. 101–8}$$

where:
I = Percent of isokinetic sampling.
V_{total} = Total volume of gas sample (stack conditions), ft³.
A_n = Probe tip area, ft².
$\oplus$ = Sampling time, sec.
$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

7. *Evaluation of results*—7.1 *Determination of compliance.*—7.1.1 Each performance test shall consist of three repetitions of the applicable test method. For the purpose of determining compliance with an applicable national emission standard, the average of results of all repetitions shall apply.

7.2 *Acceptable isokinetic results.*—7.2.1 The following range sets the limit on acceptable isokinetic sampling results:

If $90\% \leq I \leq 110\%$, the results are acceptable; otherwise, reject the test and repeat.

8. *References.*—1. Addendum to Specifications for Incinerator Testing at Federal Facilities, PHS, NCAPC, Dec. 6, 1967.

2. Determining Dust Concentration in a Gas Stream, ASME Performance Test Code No. 27, New York, N.Y., 1957.

3. Devorkin, Howard, et al., Air Pollution Source Testing Manual, Air Pollution Control District, Los Angeles, Calif., Nov. 1963.

4. Hatch, W. R. and W. L. Ott, "Determination of Sub-Microgram Quantities of Mercury by Atomic Absorption Spectrophotometry," Anal. Chem., 40:2085–87, 1968.

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METHOD 102. REFERENCE METHOD FOR DETERMINATION OF PARTICULATE AND GASEOUS MERCURY EMISSIONS FROM STATIONARY SOURCES (HYDROGEN STREAMS)

1. *Principle and applicability*—1.1 *Principle.*—Particulate and gaseous mercury emissions are isokinetically sampled from the source and collected in acidic iodine monochloride solution. The mercury collected (in the mercuric form) is reduced to elemental mercury in basic solution by hydroxylamine sulfate. Mercury is aerated from the solution and analyzed using spectrophotometry.

1.2 *Applicability.*—This method is applicable for the determination of particulate and gaseous mercury emissions when the carrier gas stream is principally hydrogen. The method is for use in ducts or stacks at stationary sources. Unless otherwise specified, this method is not intended to apply to gas streams other than those emitted directly to the atmosphere without further processing.

2. *Apparatus*—2.1 *Sampling train.*—A schematic of the sampling train used by EPA is shown in figure 102–1. Commercial models of this train are available, although complete construction details are described in APTD–0581,[1] and operating and maintenance procedures are described in APTD–0576. The components essential to this sampling train are the following:

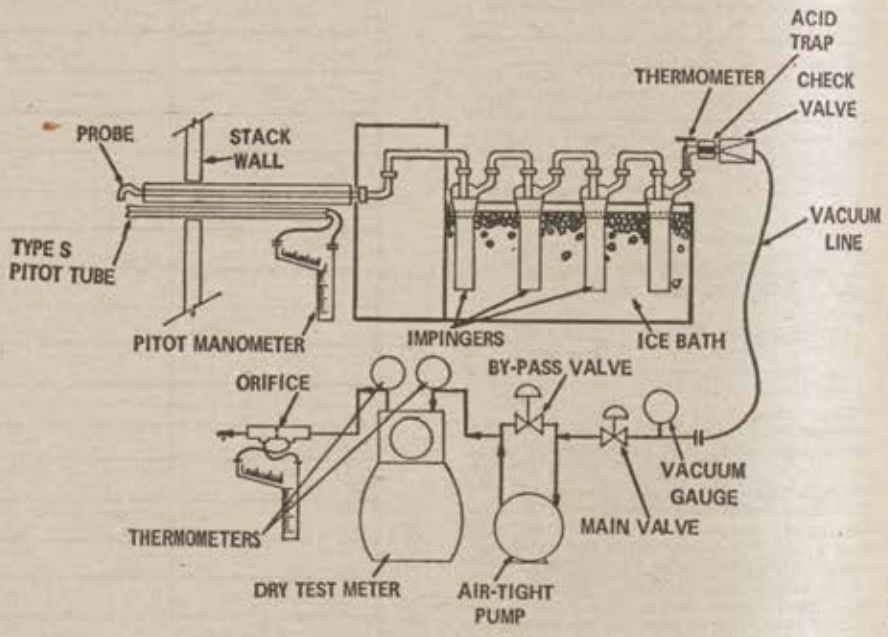


Figure 102-1. Mercury sampling train

2.1.1 *Nozzle.* Stainless steel or glass with sharp, tapered leading edge.

2.1.2 *Probe.* Sheathed Pyrex[2] glass.

2.1.3 *Pitot tube.* Type S (figure 102–2), or equivalent, with a coefficient within 5 percent over the working range, attached to probe to monitor stack gas velocity.

2.1.4 *Impingers.* Four Greenburg-Smith impingers connected in series with glass ball-joint fittings. The first, third, and fourth impingers may be modified by replacing the tip with one-half inch ID glass tube extending to one-half inch from the bottom of the flask.

2.1.5 *Acid trap.* Mine safety appliances air line filter, catalogue No. 81857, with acid absorbing cartridge and suitable connections, or equivalent.

2.1.6 *Metering system.* Vacuum gage, leakless pump, thermometers capable of measuring temperature to within 5°F, dry gas meter with 2 percent accuracy, and related equipment, described in APTD–0581, to maintain an isokinetic sampling rate and to determine sample volume.

2.1.7 *Barometer.* To measure atmospheric pressure to ± 0.1 in hg.

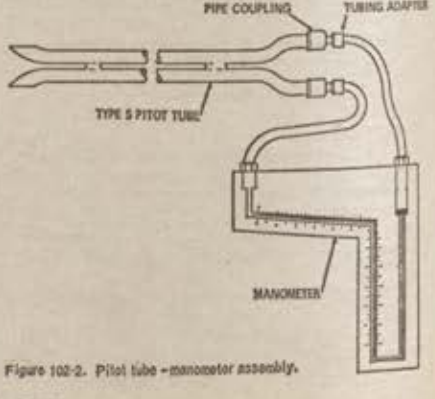


Figure 102-2. Pitot tube–manometer assembly.

[1] These documents are available for a nominal cost from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Va. 22151.

[2] Mention of trade names or commercial products does not constitute endorsement by the Environmental Protection Agency.

2.2 *Measurement of stack conditions (stack pressure, temperature, moisture, and velocity)*—2.2.1 *Pitot tube.* Type S, or equivalent, with a coefficient within 5 percent over theworking range.

2.2.2 *Differential pressure gage.* Inclined manometer, or equivalent, to measure velocity head to within 10 percent of the minimum value. Micromanometers should be used if warranted.

2.2.3 *Temperature gage.* Any temperature-measuring device to measure stack temperature to within 1° F.

2.2.4 *Pressure gage.* Pitot tube and inclined manometer, or equivalent, to measure stack pressure to within 0.1 in hg.

2.2.5 *Moisture determination.* Drying tubes, condensers, or equivalent, to determine stack gas moisture content in hydrogen to within 1 percent.

2.3 *Sample recovery*—2.3.1 *Leakless glass sample bottles.* 500 ml and 200 ml with Teflon-lined tops.

2.3.2 *Graduated cylinder.* 250 ml.

2.3.3 *Plastic jar.* Approximately 300 ml.

2.4 *Analysis*—2.4.1 *Spectrophotometer.* To measure absorbance at 253.7 nm. Perkin Elmer model 303, with a cylindrical gas cell (approximately 1.5 in o.d. x 7 in) with quartz glass windows, and hollow cathode source, or equivalent.

2.4.2 *Gas sampling bubbler.* Tudor Scientific Co. Smog Bubbler, catalogue No. TP-1150, or equivalent.

2.4.3 *Recorder.* To match output of spectrophotometer.

3. *Reagents.*—3.1 Stock reagents.—3.1.1 Potassium iodide. Reagent grade.

3.1.2 *Distilled water.*

3.1.3 *Potassium iodide solution, 25 percent.*—Dissolve 250 g of potassium iodide (reagent 3.1.1) in distilled water and dilute to 1 to 1.

3.1.4 *Hydrochloric acid.* Concentrated.

3.1.5 *Potassium iodate.* Reagent grade.

3.1.6 *Iodine monochloride (ICl) 1.0M.* To 800 ml of 25 percent potassium iodide solution (reagent 3.1.3), add 800 ml of concentrated hydrochloric acid. Cool to room temperature. With vigorous stirring, slowly add 135 g of potassium iodate and continue stirring until all free iodine has dissolved to give a clear orange-red solution. Cool to room temperature and dilute to 1,800 ml with distilled water. The solution should be kept in amber bottles to prevent degradation.

3.1.7 *Sodium hydroxide pellets.* Reagent grade.

3.1.8 *Nitric acid.* Concentrated.

3.1.9 *Hydroxylamine sulfate.* Reagent grade.

3.1.10 *Sodium chloride.* Reagent grade.

3.1.11 *Mercuric chloride.* Reagent grade.

3.2 *Sampling.* 3.2.1 *Absorbing solution, 0.1M ICl.* Dilute 100 ml of the 1.0M ICl stock solution (reagent 3.1.6) to 1 l with distsilled water. The solution should be kept in glass bottles to prevent degradation. This reagent should be stable for at least 2 months; however, periodic checks should be performed to insure quality.

3.2.2 *Wash acid.* 1:1 V/V nitric acid-water.

3.2.3 *Distilled, deionized water.*

3.2.4 *Silica gel.* Indicating type, 6 to 16 mesh, dried at 350°F for 2 hours.

3.3. *Analysis*—3.3.1 *Sodium hydroxide, 10N.* Dissolve 400 g of sodium hydroxide pellets in distilled water and dilute to 1 l.

3.3.2 *Reducing agent, 12 percent hydroxylamine sulfate, 12 percent sodium chloride.* To 60 ml of distilled water, add 12 g of hydroxylamine sulfate and 12 g of sodium chloride. Dilute to 100 ml. This quantity is sufficient for 20 analyses and must be prepared daily.

3.3.3 *Aeration gas.* Zero grade air.

3.3.4 *Hydrochloric acid, 0.3N.* Dilute 25.5 ml of concentrated hydrochloric acid to 1 l with distilled water.

3.4 *Standard mercury solutions*—3.4.1 *Stock solution.* Add 0.1354 g of mercuric chloride to 80 ml of 0.3N hydrochloric acid. After the mercuric chloride has dissolved, add 0.3N hydrochloric acid and adjust the volume to 100 ml. One ml of this solution is equivalent to 1 mg of free mercury.

3.4.2 *Standard solutions.* Prepare calibration solutions by serially diluting the stock solution (3.4.1) with 0.3N hydrochloric acid. Prepare solutions at concentrations in the linear working range for the instrument to be used. Solutions of 0.2 μg/ml, 0.4 μg/ml and 0.6 μg/ml have been found acceptable for most instruments. Store all solutions in glass-stoppered, glass bottles. These solutions should be stable for at least 2 months; however, periodic checks should be performed to insure quality.

4. *Procedure.* 4.1 Guidelines for source testing are detailed in the following sections. These guidelines are generally applicable; however, most sample sites differ to some degree and temporary alterations such as stack extensions or expansions often are required to insure the best possible sample site. Further, since mercury is hazardous, care should be taken to minimize exposure. Fnally, since the total quantity of mercury to be collected generally is small, the test must be carefully conducted to prevent contamination or loss of sample.

4.2 Selection of a sampling site and minimum number of traverse points.

4.2.1 Select a suitable sampling site that is as close as is practicable to the point of atmospheric emission. If possible, stacks smaller than 1 foot in diameter should not be sampled.

4.2.2 The sampling site should be at least eight stack or duct diameters downstream and two diameters upstream from any flow disturbance such as a bend, expansion or contraction. For rectangular cross section, determine an equivalent diameter from the following equation:

$$D_e = \frac{2LW}{L+W} \qquad \text{eq. 102-1}$$

where:

D_e = equivalent diameter.
L = length.
W = width.

4.2.3 When the above sampling site criteria can be met, the minimum number of traverse points is four (4) for stacks 1 foot in diameter or less, eight (8) for stacks larger than 1 foot but 2 feet in diameter or less, and twelve (12) for stacks larger than 2 feet.

4.2.4 Some sampling situations may render the above sampling site criteria impractical. When this is the case, choose a convenient sampling location and use figure 102-3 to determine the minimum number of traverse points. However, use figure 102-3 only for stacks 1 foot in diameter or larger.

4.2.5 To use figure 102-3, first measure the distance from the chosen sampling location to the nearest upstream and downstream disturbances. Divide this distance by the diameter or equivalent diameter to determine the distance in terms of pipe diameters. Determine the corresponding number of traverse points for each distance from figure 102-3. Select the higher of the two numbers of traverse points, or a greater value, such that for circular stacks the number is a multiple of four, and for rectangular stacks the number follows the criteria of section 4.3.2.

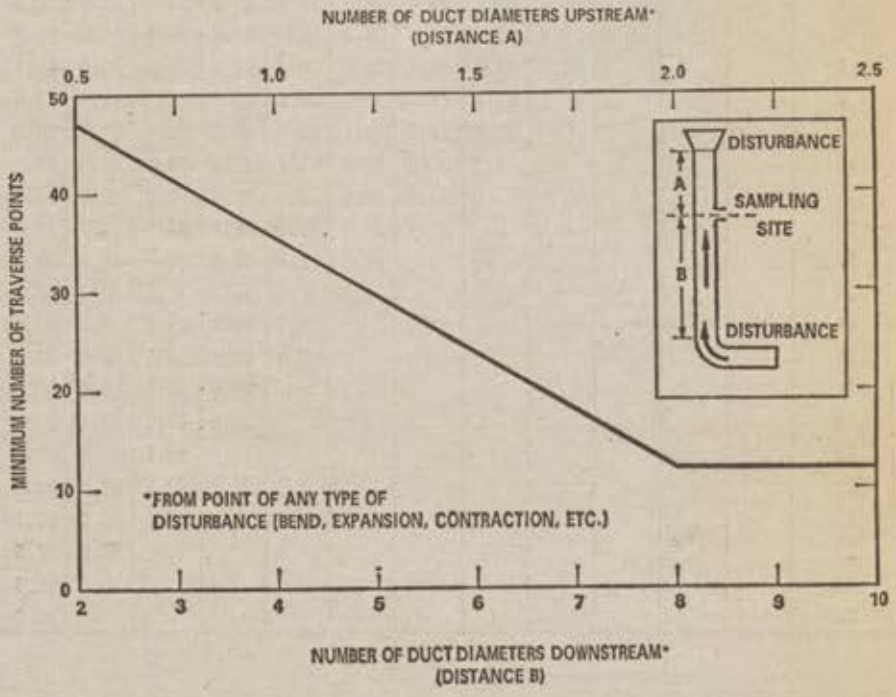


Figure 104-3. Minimum number of traverse points.

4.2.6 If a selected sampling point is closer than 1 inch from stack wall, adjust the location of that point to insure that the sample is taken at least 1 inch away from the wall.

4.3 Cross-sectional layout and location of traverse points.

4.3.1 For circular stacks locate the traverse points on at least two diameters according to figure 102-4 and table 102-1. The traverse axes shall divide the stack-cross section into equal parts.

4.3.2 For rectangular stacks divide the cross-section into as many equal rectangular areas as traverse points, such that the ratio of the length to the width of the elemental areas is between one and two. Locate the traverse points at the centroid of each equal area according to figure 102-5.

4.4 Measurement of stack conditions.

4.4.1 Set up the apparatus as shown in figure 102-2. Make sure all connections are tight and leak free. Measure the velocity head and temperature at the traverse points specified by section 4.2 and 4.3.

4.4.2 Measure the static pressure in the stack.

4.4.3 Determine the stack gas moisture.



Figure 102-4. Cross section of circular stack showing location of traverse points on perpendicular diameters.

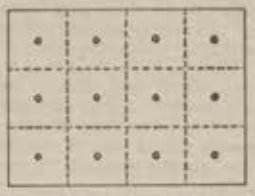


Figure 102-5. Cross section of rectangular stack divided into 12 equal areas, with traverse points at centroid of each area.

Table 102-1. Location of traverse points in circular stacks
(Percent of stack diameter from inside wall to traverse point)

Traverse point number on a diameter	Number of traverse points on a diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
1	14.6	6.7	4.4	3.3	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	85.4	25.0	14.7	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2
3		75.0	29.5	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6.0	5.5
4		93.3	70.5	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9
5			85.3	67.7	34.2	25.0	20.1	16.9	14.6	12.9	11.6	10.5
6			95.6	80.6	65.8	35.5	26.9	22.0	18.8	16.5	14.6	13.2
7				89.5	77.4	64.5	36.6	28.3	23.6	20.4	18.0	16.1
8				96.7	85.4	75.0	63.4	37.5	29.6	25.0	21.8	19.4
9					91.8	82.3	73.1	62.5	38.2	30.6	26.1	23.0
10					97.5	88.2	79.9	71.7	61.8	38.8	31.5	27.2
11						93.3	85.4	78.0	70.4	61.2	39.3	32.3
12						97.9	90.1	83.1	76.4	69.4	60.7	39.8
13							94.3	87.5	81.2	75.0	68.5	60.2
14							98.2	91.5	85.4	79.6	73.9	67.7
15								95.1	89.1	83.5	78.2	72.8
16								98.4	92.5	87.1	82.0	77.0
17									95.6	90.3	85.4	80.6
18									98.6	93.3	88.4	83.9
19										96.1	91.3	86.8
20										98.7	94.0	89.5
21											96.5	92.1
22											98.9	94.5
23												96.8
24												98.9

4.4.4 Determine the stack gas molecular weight from the measured moisture content and knowledge of the expected gas stream composition. Sound engineering judgment should be used.

4.5 Preparation of sampling train.

4.5.1 Prior to assembly, clean all glassware (probe, impingers, and connectors) by rinsing with wash acid, tap water, 0.1M IC1, tap water, and finally distilled water. Place 100 ml of 0.1M IC1 in each of the first three impingers, and place approximately 200 g. of preweighed silica gel in the fourth impinger. Save 80 ml of the 0.1M IC1 as a blank in the sample analysis. Set up the train and the probe as in Figure 102-1.

4.5.2 Leak check the sampling train at the sampling site. The leakage rate should not be in excess of 1 percent of the desired sampling rate. Place crushed ice around the impingers. Add more ice during the run to keep the temperature of the gases leaving the last impinger at 70° F or less.

4.6 Mercury train operation.

4.6.1 Safety procedures. It is imperative that the sampler conduct the source test under conditions of utmost safety, since hydrogen and air mixtures are explosive. The sample train essentially is leakless, so that attention to safe operation can be concentrated at the inlet and outlet. The following specific items are recommended:

4.6.1.1 Operate only the vacuum pump during the test. The other electrical equipment, e.g. heaters, fans and timers, normally are not essential to the success of a hydrogen stream test.

4.6.1.2 Seal the sample port to minimize leakage of hydrogen from the stack.

4.6.1.3 Vent sampled hydrogen at least 10 feet away from the train. This can be accomplished easily by attaching a ½-in i.d. Tygon tube to the exhaust from the orifice meter.

4.6.2 For each run, record the data required on the sample sheet shown in figure 102-6. Take readings at each sampling point at least every 5 minutes and when significant changes in stack conditions necessitate additional adjustments in flow rate.

4.6.3 Sample at a rate of 0.5 to 1.0 cfm. Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which would occur in a 24-hour period. In the case of cyclic operations, sufficient tests shall be made so as to allow accurate determination or calculation of the emissions which will occur over the duration of the cycle. A minimum sample time of 2 hours is recommended. In some instances, high mercury concentrations can prevent sampling in one run for the desired minimum time. This is indicated by reddening in the first impinger as free iodine is liberated. In this case, a run may be divided into two or more subruns to insure that the absorbing solutions are not depleted.

PLANT _____
LOCATION _____
OPERATOR _____
DATE _____
RUN NO. _____
SAMPLE BOX NO. _____
METER BOX NO. _____
METER $\Delta H_@$ _____
C FACTOR _____

SCHEMATIC OF STACK CROSS SECTION

AMBIENT TEMPERATURE _____
BAROMETRIC PRESSURE _____
ASSUMED MOISTURE, % _____
PROBE LENGTH, in. _____
NOZZLE DIAMETER, in. _____

TRAVERSE POINT NUMBER	SAMPLING TIME (θ), min.	STATIC PRESSURE (P_g), in. Hg	STACK TEMPERATURE (T_s), °F	VELOCITY HEAD (ΔP_s),	PRESSURE DIFFERENTIAL ACROSS ORIFICE METER [Δ H, in. H_2O	GAS SAMPLE VOLUME (Vol. ft³)	GAS SAMPLE TEMPERATURE AT DRY GAS METER		SAMPLE BOX TEMPERATURE, °F	IMPINGER TEMPERATURE, °F
							INLET ($T_{m_{in}}$), °F	OUTLET ($T_{m_{out}}$), °F		
TOTAL							Avg.	Avg.		
AVERAGE							Avg.			

Figure 102-6. Field data

4.6.4 To begin sampling, position the nozzle at the first traverse point with the tip pointing directly into the gas stream. Immediately start the pump and adjust the flow to isokinetic conditions. Sample for at least 5 minutes at each traverse point; sampling time must be the same for each point. Maintain isokinetic sampling throughout the sampling period, using the following procedures.

4.6.4.1 Nomographs which aid in the rapid adjustment of the sampling rate without other computations are in APTD–0576 and are available from commercial suppliers. The available nomographs, however, are set up for use in air streams, and minor changes are required to provide applicability to hydrogen.

4.6.4.2 Calibrate the meter box orifice. Use the techniques as described in APTD–0576.

4.6.4.3 The correction factor nomograph discussed in APTD–0576 and shown on the reverse side of commercial nomographs will not be used. In its place, the correction factor will be calculated using equation 102–2.

$$C = 0.01 \frac{(C_p M_s)^2}{\Delta H_@} \frac{P_s}{P_m} \frac{T_m}{M_s} \qquad \text{eq. 102–2}$$

where:

C = Correction factor.
C_p = Pitot tube coefficient.
M_s = Mole fraction dry gas.
P_s = Stack pressure, inHg.
P_m = Meter pressure, inHg.
T_m = Meter temperature, °R.
M_s = Molecular weight of stack gas (from 4.4.4), lb/lb mole.
$\Delta H_@$ = Meter box calibration factor, obtained in step 4.6.4.2.

4.6.4.4 Set the calculated correction factor on the front of the operating nomograph. Select the proper nozzle and set the K-factor on the nomograph as detailed in APTD–0576.

4.6.4.5 Read the velocity head in the stack at each sample point from the manometer in the meter box. Convert the hydrogen ΔP to an equivalent value for air by multiplying by a ratio of the molecular weight of air to hydrogen at the stack moisture content. Insert this value of ΔP onto the nomograph and read off ΔH. Again, convert the ΔH, which is an air equivalent value, to the ΔH for hydrogen by dividing by 13. This factor includes the ratio of the dry molecular weights and a correction for the different orifice calibration factors for hydrogen and air. This procedure is diagrammed below:

Observe ΔP → Multiply by $\left(\frac{MW\ \text{air}}{MW\ H_2}\right)_{\text{wet}}$ → Set this on nomograph.

Read off ΔH → Divide by 13 = WH to be used on meter box.

4.6.4.6 Operate the sample train at the calculated ΔH at each sample point.

4.6.5 Turn off the pump at the conclusion of each run and record the final readings. Immediately remove the probe and nozzle from the stack and handle in accordance with the sample recovery process described in section 4.7.

4.7 Sample recovery.

4.7.1 (All glass storage bottles and the graduated cylinder must be precleaned as in section 4.5.1). This operation should be performed in an area free of possible mercury contamination. Industrial laboratories and ambient air around mercury-using facilities are not normally free of mercury contamination. When the sampling train is moved, care must be exercised to prevent breakage and contamination.

4.7.2 Disconnect the probe from the impinger train. Place the contents (measured to ±1 ml) of the first three impingers into a 500 ml sample bottle. Rinse the probe and all glassware between it and the back half of the third impinger with two 50 ml portions of 0.1M ICl solution. Add these rinses to the first bottle. For a blank, place 80 ml of the 0.1M ICl in a 100 ml sample bottle. Place the silica gel in the plastic jar. Seal and secure all containers for shipment. If an additional test is desired, the glassware can be carefully double rinsed with distilled water and reassembled. However, if the glassware is to be out of use more than 2 days, the initial acid wash procedure must be followed.

4.8 *Analysis*—4.8.1 *Apparatus preparation.*—Clean all glassware according to the procedure of section 4.5.1. Adjust the instrument settings according to the instrument manual, using an absorption wavelength of 253.7 nm.

4.8.2 *Analysis preparation.*—Adjust the air delivery pressure and the needle valve to obtain a constant air flow of about 1.3 l/min. The analysis tube should be bypassed except during aeration. Purge the equipment for 2 minutes. Prepare a sample of mercury standard solution (3.4.2) according to section 4.8.3. Place the analysis tube in the line, and aerate until a maximum peak height is reached on the recorder. Remove the analysis tube, flush the lines, and rinse the analysis tube with distilled water. Repeat with another sample of the same standard solution. This purge and analysis cycle is to be repeated until peak heights are reproducible.

4.8.3 *Sample preparation.*—Just prior to analysis, transfer a sample aliquot of up to 50 ml to the cleaned 100 ml analysis tube. Adjust the volume to 50 ml with 0.1M ICl if required. Add 5 ml of 10 N sodium hydroxide, cap tube with a clean glass stopper and shake vigorously. Prolonged, vigorous shaking at this point is necessary to obtain an accurate analysis. Add 5 ml of the reducing agent (reagent 3.3.2), cap tube with a clean glass stopper and shake vigorously and immediately place in sample line.

4.8.4 *Mercury determination.*—After the system has been stabilized, prepare samples from the sample bottle according to section 4.8.3. Aerate the sample until a maximum peak height is reached on the recorder. The mercury content is determined by comparing the peak heights of the samples to the peak heights of the calibration solutions. If collected samples are out of the linear range, the samples should be diluted. Prepare a blank from the 100 ml bottle according to section 4.8.3 and analyze to determine the reagent blank mercury level.

5. *Calibration.*—5.1 *Sampling Train.* 5.1.1 Use standard methods and equipment as detailed in APTD–0576 to calibrate the rate meter, pitot tube and dry gas meter. Recalibrate prior to each test series.

5.2 *Analysis.*—5.2.1 Prepare a calibration curve for the spectrophotometer using the standard mercury solutions. Plot the peak heights read on the recorder versus the concentration of mercury in the standard solutions. Standards should be interspersed with the samples since the calibration can change slightly with time. A new calibration curve should be prepared for each new set of samples run.

6. *Calculations*—6.1 *Average dry gas meter temperature, stack temperature, stack pressure and average orifice pressure drop.*—See data sheet (fig. 102–6).

6.2 *Dry gas volume.*—Correct the sample volume measured by the dry gas meter to stack conditions by using equation 102–3.

$$V_{m_s} = V_m \frac{T_s}{T_m} \frac{\left(P_{bar} + \frac{\Delta H}{13.6}\right)}{P_s} \qquad \text{eq. 102–3}$$

where:

V_{m_s} = Volume of gas sample through the dry gas meter (stack conditions), ft³.
V_m = Volume of gas sample through the dry gas meter (meter conditions), ft³.
T_s = Average temperature of stack gas, °R.
T_m = Average dry gas meter temperature, °R.
P_{bar} = Barometric pressure at the orifice meter, inHg.
ΔH = Average pressure drop across the orifice meter, inH_2O.
13.6 = Specific gravity of mercury.
P_s = Stack pressure, $P_{bar} \pm$ static pressure, inHg.

6.3 *Volume of water vapor.*

$$V_{w_s} = K_w V_{l_c} \frac{T_s}{P_s} \qquad \text{eq. 102-4}$$

where:

V_{w_s} = Volume of water vapor in the gas sample (stack conditions), ft³.

$K_w = 0.00267 \frac{\text{in. Hg.} - \text{ft}^3}{\text{ml.} - {}^\circ\text{R}}$, when these units are used.

V_{l_c} = Total volume of liquid collected in impingers and silica gel (see figure 102-7), ml.

T_s = Average stack gas temperature, °R.

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in. Hg.

6.4 *Total gas volume.*

$$V_{total} = V_{m_s} + V_{w_s} \qquad \text{eq. 102-5}$$

where:

V_{total} = total volume of gas sample (stack conditions), ft³.

V_{m_s} = Volume of gas through dry gas meter (stack conditions), ft³.

V_{w_s} = Volume of water vapor in gas sample (stack conditions), ft³.

	VOLUME OF LIQUID WATER COLLECTED	
	IMPINGER VOLUME, ml	SILICA GEL WEIGHT, g
FINAL		
INITIAL		
LIQUID COLLECTED		
TOTAL VOLUME COLLECTED		g* ml

*CONVERT WEIGHT OF WATER TO VOLUME BY dividing total weight INCREASE BY DENSITY OF WATER. (1 g/ml)

$$\frac{\text{INCREASE, g}}{(1\ \text{g/ml})} = \text{VOLUME WATER, ml}$$

Figure 102-7. Analytical data.

6.5 *Stack gas velocity*—Use equation 102-6 to calculate the stack gas velocity.

$$(v_s)_{avg.} = K_p C_p (\sqrt{\Delta P})_{avg.} \sqrt{\frac{(T_s)_{avg.}}{P_s M_s}}$$

eq 102-6

where:

$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

$K_p = 85.53 \frac{\text{ft}}{\text{sec}} \left(\frac{\text{lb-in Hg}}{\text{lb mole°-R-in H}^2\text{O}} \right)^{1/2}$, when these units are used.

C_p = Pitot tube coefficient, dimensionless.

$(T_s)_{avg.}$ = Average stack gas temperature, °R.

$(\sqrt{\Delta P})_{avg.}$ = Average square root of the velocity head of stack gas $(\text{in H}_2\text{O})^{1/2}$ (see figure 102-8).

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in Hg.

M_s = Molecular weight of stack gas (wet basis), the summation of the products of the molecular weight of each component multiplied by its volumetric proportion in the mixture, lb/lb-mole.

Figure 102-8 shows a sample recording sheet for velocity traverse data. Use the averages in the last two columns of figure 102-8 to determine the average stack gas velocity from equation 102-6.

6.6 Mercury collected. Calculate the total weight of mercury collected by using eq. 102-7.

PLANT_____

DATE_____

RUN NO._____

STACK DIAMETER, in._____

BAROMETRIC PRESSURE, in. Hg._____

STATIC PRESSURE IN STACK (P_g), in. Hg._____

OPERATORS_____

SCHEMATIC OF STACK CROSS SECTION

Traverse point number	Velocity head, in. H_2O	$\sqrt{\Delta_P}$	Stack Temperature (T_S), °F
	AVERAGE:		

Figure 102-8. Velocity traverse data.

$$W_t = V_t C_t - V_b C_b \text{ ----- eq. 102-7}$$

where:

W_t = Total weight of mercury collected, μg.
V_t = Total volume of condensed moisture and ICl in sample bottle, ml.
C_t = Concentration of mercury measured in sample bottle, μg/ml.
V_b = Total volume of ICl used in sampling (impinger contents and all wash amounts), ml.
C_b = Blank concentration of mercury in ICl solution, μg/ml.

6.7 *Total mercury emission.*—Calculate the total amount of mercury emitted from each stack per day by equation 102-8. This equation is applicable for continuous operations. For cyclic operations, use only the time per day each stack is in operation. The total mercury emissions from a source will be the summation of results from all stacks.

$$R = \frac{W_t (v_s)_{avg} A_s}{V_{total}} \times \frac{86{,}400 \text{ seconds/day}}{10^6 \text{ μg/g}} \text{ eq. 102-8}$$

where:

R = Rate of emission, g/day.
W_t = Total weight of mercury collected, μg.
V_{total} = Total volume of gas sample (stack conditions), ft³.
$(v_s)_{avg}$ = Average stack gas velocity, feet per second.
A_s = Stack area, ft².

6.8 *Isokinetic variation (comparison of velocity of gas in probe tip to stack velocity).*

$$I = \frac{100 V_{total}}{A_n \theta (v_s)_{avg}} \text{ eq. 102-9}$$

where:

I = Percent of isokinetic sampling.
V_{total} = Total volume of gas sample (stack conditions), ft³.
A_n = Probe tip area, ft².
θ = Sampling time, sec.
$(v_s)_{avg}$ = Average stack gas velocity, feet per second.

7. *Evaluation of results.*—7.1 Determination of compliance.—7.1.1 Each performance test shall consist of three repititions of the applicable test method. For the purpose of determining compliance with an applicable national emission standard, the average of results of all repetitions shall apply.

7.2 *Acceptable isokinetic results.*—7.2.1 The following range sets the limit on acceptable isokinetic sampling results: If $90\% \leq I \leq 110\%$, the results are acceptable; otherwise, reject the test and repeat.

8. *References.*—1. Addendum to Specifications for Incinerator Testing at Federal Facilities, PHS, NCAPC, Dec. 6, 1967.

2. Determining Dust Concentration in a Gas Stream, ASME Performance Test Code No. 27, New York, N.Y., 1957.

3. Devorkin, Howard, et al., Air Pollution Source Testing Manual, Air Pollution Control District, Los Angeles, Calif., Nov. 1963.

4. Hatch, W. R. and W. L. Ott, "Determination of Sub-Microgram Quantities of Mercury by Atomic Absorption Spectrophotometry," Anal. Chem., 40: 2085-87, 1968.

5. Mark, L. S., Mechanical Engineers' Handbook, McGraw-Hill Book Co., Inc., New York, N.Y., 1951.

6. Martin, Robert M., Construction Details of Isokinetic Source Sampling Equipment, Environmental Protection Agency, APTD-0581.

7. Methods for Determination of Velocity, Volume, Dust and Mist Content of Gases, Western Precipitation Division of Joy Manufacturing Co., Los Angeles, Calif. Bull. WP-50, 1968.

8. Perry, J. H., Chemical Engineers' Handbook, McGraw-Hill Book Co., Inc., New York, N.Y., 1960.

9. Rom, Jerome J., Maintenance, Calibration, and Operation of Isokinetic Source Sampling Equipment, Environmental Protection Agency, APTD-0576.

10. Shigehara, R. T., W. F. Todd, and W. S. Smith, Significance of Errors in Stack Sampling Measurements, Paper presented at the Annual Meeting of the Air Pollution Control Association, St. Louis, Mo., June 14-19, 1970.

11. Smith, W. S., et al., Stack Gas Sampling Improved and Simplified with New Equipment, APCA paper No. 67-119, 1967.

12. Smith, W. S., R. T. Shigehara, and W. F. Todd, A Method of Interpreting Stack Sampling Data, Paper presented at the 63d Annual Meeting of the Air Pollution Control Association, St. Louis, Mo., June 14-19, 1970.

13. Specifications for Incinerator Testing at Federal Facilities PHS, NCAPC, 1967.

14. Standard Method for Sampling Stacks for Particulate Matter, In: 1971 Book of ASTM Standards, part 23, Philadelphia, 1971, ASTM Designation D-2928-71.

15. Vennard, J. K., Elementary Fluid Mechanics, John Wiley and Sons, Inc., New York, 1947.

METHOD 103. BERYLLIUM SCREENING METHOD

1. *Principle and applicability.*—1.1 *Principle.*—Beryllium emissions are isokinetically sampled from three points in a duct or stack. The collected sample is analyzed for beryllium using an appropriate technique.

1.2 *Applicability.*—This procedure details guidelines and requirements for methods acceptable for use in determining beryllium emissions in ducts or stacks at stationary sources, as specified under the provisions of § 61.14 of the regulations.

2. *Apparatus.*—2.1 *Sampling train.*—A schematic of the required sampling train configuration is shown in figure 103-1. The essential components of the train are the following:

2.1.1 *Nozzle.*—Stainless steel, or equivalent, with sharp, tapered leading edge.

2.1.2 *Probe.*—Sheathed Pyrex [1] glass.

2.1.3 *Filter.*—Millipore AA, or equivalent, with appropriate filter holder that provides a positive seal against leakage from outside or around the filter. It is suggested that a Whatman 41, or equivalent, be placed immediately against the back side of the Millipore filter as a guard against breakage of the Millipore. Include the Whatman 41 in the analysis. Equivalent filters must be at least 99.95 percent efficient (DOP Test) and amenable to the analytical procedure.

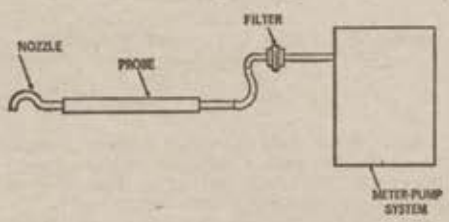


Figure 103-1. Beryllium screening method; sample train schematic.

2.1.4 *Meter-pump system.*—Any system that will maintain isokinetic sampling rate, determine sample volume, and is capable of a sampling rate of greater than 0.5 cfm.

2.2 *Measurement of stack conditions (stack pressure, temperature, moisture and velocity).*—The following equipment shall be used in the manner specified in section 4.3.1.

2.2.1 *Pitot tube.*—Type S, or equivalent, with a coefficient within 5 percent over the working range.

2.2.2 *Differential pressure gauge.*—Inclined manometer, or equivalent, to measure velocity head to within 10 percent of the minimum value.

[1] Mention of trade names or specific products does not constitute endorsement by the Environmental Protection Agency.

2.2.3. *Temperature gauge.*—Any temperature measuring device to measure stack temperature to within 5° F.

2.2.4 *Pressure gauge.*—Any device to measure stack pressure to within 0.1 in. Hg.

2.2.5 *Barometer.*—To measure atmospheric pressure to within 0.1 in. Hg.

2.2.6 *Moisture determination.*—Wet and dry bulb thermometers, drying tubes, condensers, or equivalent, to determine stack gas moisture content to within 1 percent.

2.3 *Sample recovery.*—2.3.1 *Probe cleaning equipment.*—Probe brush or cleaning rod at least as long as probe, or equivalent. Clean cotton balls, or equivalent, should be used with the rod.

2.3.2 *Leakless glass sample bottles.*

2.4 *Analysis.*—2.4.1 Equipment necessary to perform an atomic absorption, spectrographic, fluorometric, chromatographic, or equivalent analysis.

3. *Reagents.*—3.1 *Sample recovery.*—3.1.1 *Acetone.*—Reagent grade.

3.1.2 *Wash acid.*—1:1 V/V hydrochloric acid-water.

3.2 *Analysis.*—3.2.1 Reagents as necessary for the selected analytical procedure.

4. *Procedure.*—4.1 Guidelines for source testing are detailed in the following sections. These guidelines are generally applicable; however, most sample sites differ to some degree and temporary alterations such as stack extensions or expansions often are required to insure the best possible sample site. Further, since beryllium is hazardous, care should be taken to minimize exposure. Finally, since the total quantity of beryllium to be collected is quite small, the test must be carefully conducted to prevent contamination or loss of sample.

4.2 *Selection of a sampling site and number of runs.*—4.2.1 Select a suitable sampling site that is as close as practicable to the point of atmospheric emission. If possible, stacks smaller than 1 foot in diameter should not be sampled.

4.2.2 The sampling site should be at least eight stack or duct diameters downstream and two diameters upstream from any flow disturbance such as a bend, expansion or contraction. For rectangular cross-section, determine an equivalent diameter using the following equation:

$$D_e = \frac{2LW}{L+W} \text{ ---------- eq. 103-1}$$

where:

D_e = equivalent diameter
L = length
W = width

4.2.3 Some sampling situations may render the above sampling site criteria impractical. When this is the case, an alternate site may be selected but must be no less than two diameters downstream and one-half diameter upstream from any point of disturbance. Additional sample runs are recommended at any sample site not meeting the criteria of section 4.2.2.

4.2.4 Three runs shall constitute a test. The runs shall be conducted at three different points. The three points shall proportionately divide the diameter, i.e. be located at 25, 50 and 75 percent of the diameter from the inside wall. For horizontal ducts, the diameter shall be in the vertical direction. For rectangular ducts, sample on a line through the centroid and parallel to a side. If additional runs are required per section 4.2.3, proportionately divide the duct to accommodate the total number of runs.

4.3 *Measurement of stack conditions.* 4.3.1 Measure the stack gas pressure, moisture, and temperature, using the equipment described in § 2.2. Determine the molecular weight of the stack gas. Sound engineering estimates may be made in lieu of direct

measurements. The basis for such estimates shall be given in the test report.

4.4 *Preparation of sampling train.*—4.4.1 Assemble the sampling train as shown in figure 103–1. It is recommended that all glassware be precleaned by soaking in wash acid for 2 hours.

4.4.2 Leak check the sampling train at the sampling site. The leakage rate should not be in excess of 1 percent of the desired sample rate.

4.5 *Beryllium train operation.*—4.5.1 For each run, measure the velocity at the selected sampling point. Determine the isokinetic sampling rate. Record the velocity head and the required sampling rate.

4.5.2 Place the nozzle at the sampling point with the tip pointing directly into the gas stream. Immediately start the pump and adjust the flow to isokinetic conditions. At the conclusion of the test, record the sampling rate. Again measure the velocity head at the sampling point. The required isokinetic rate at the end of the period should not have deviated more than 20 percent from that originally calculated.

4.5.3 Sample at a minimum rate of 0.5 ft^3/min. Samples shall be taken over such a period or periods as are necessary to determine the maximum emissions which would occur in a 24-hour period. In the case of cyclic operations, sufficient tests shall be made so as to allow determination or calculation of the emissions which would occur over the duration of the cycle. A minimum sampling time of 2 hours is recommended.

4.5.4 All pertinent data should be included in the test report.

4.6 *Sample recovery.*—4.6.1 It is recommended that all glassware be precleaned as in § 4.4.1. Sample recovery should also be performed in an area free of possible beryllium contamination. When the sampling train is moved, exercise care to prevent breakage and contamination. Set aside a portion of the acetone used in the sample recovery as a blank for analysis. The total amount of acetone used should be measured for accurate blank correction. Blanks can be eliminated if prior analysis shows negligible amounts.

4.6.2 Remove the filter and any loose particulate matter from filter holder and place in a container.

4.6.3 Clean the probe with acetone and a brush or long rod and cotton balls. Wash into the container. Wash out the filter holder with acetone and add to the same container.

4.7 *Analysis.*—4.7.1 Make the necessary preparation of samples and analyze for beryllium. Any currently acceptable method such as atomic absorption, spectrographic, fluorometric, chromatographic, or equivalent may be used.

5. *Calibration and standards*—5.1 *Sampling train.*—5.1.1 As a procedural check, sampling rate regulation should be compared with a dry gas meter, spirometer, rotameter (calibrated for prevailing atmospheric conditions), or equivalent, attached to nozzle inlet of the complete sampling train.

5.1.2 Data from this test and calculations should be shown in test report.

5.2 *Analysis.*—5.2.1 Standardization is made as suggested by the manufacturer of the instrument or the procedures for the analytical method.

6. *Calculations*—6.1 *Total beryllium emission.* Calculate the total amount of beryllium emitted from each stack per day by equation 103–2. This equation is applicable for continuous operations. For cyclic operations, use only the time per day each stack is in operation. The total beryllium emissions from a source will be the summation of results from all stacks.

$$R = \frac{W_s (v_s)_{avg} A_s}{V_{total}} \times \frac{86{,}400 \text{ seconds/day}}{10^6 \ \mu g/g}$$

where:

R = Rate of emission, g/day.
W_s = Total weight of beryllium collected, μg.
V_{total} = Total volume of gas sampled, ft^3.
$(v_s)_{avg}$ = Average stack gas velocity, feet per second.
A_s = Stack area, ft^2.

7. *Test report.* 7.1 A test report shall be prepared which shall include as a minimum:

7.1.1 A detailed description of the sampling train used and results of the procedural check with all data and calculations made.

7.1.2 All pertinent data taken during test, the basis for any estimates made, calculations, and results.

7.1.3 A description of the test site, including a block diagram with a brief description of the process, location of the sample points in the cross section, dimensions and distances from any point of disturbance.

METHOD 104. REFERENCE METHOD FOR DETERMINATION OF BERYLLIUM EMISSIONS FROM STATIONARY SOURCES

1. *Principle and applicability*—1.1 *Principle.*—Beryllium emissions are isokinetically sampled from the source, and the collected sample is digested in an acid solution and analyzed by atomic absorption spectrophotometry.

1.2 *Applicability.*—This method is applicable for the determination of beryllium emissions in ducts or stacks at stationary sources. Unless otherwise specified, this method is not intended to apply to gas streams other than those emitted directly to the atmosphere without further processing.

2. *Apparatus*—2.1 *Sampling train.*—A schematic of the sampling train used by EPA is shown in figure 104–1. Commercial models of this train are available, although construction details are described in APTD-0581,[1] and operating and maintenance procedures are described in APTD–0576. The components essential to this sampling train are the following:

2.1.1 *Nozzle.*—Stainless steel or glass with sharp, tapered leading edge.

2.1.2 *Probe.*—Sheathed Pyrex[2] glass. A heating system capable of maintaining a minimum gas temperature in the range of the stack temperature at the probe outlet during sampling may be used to prevent condensation from occurring.

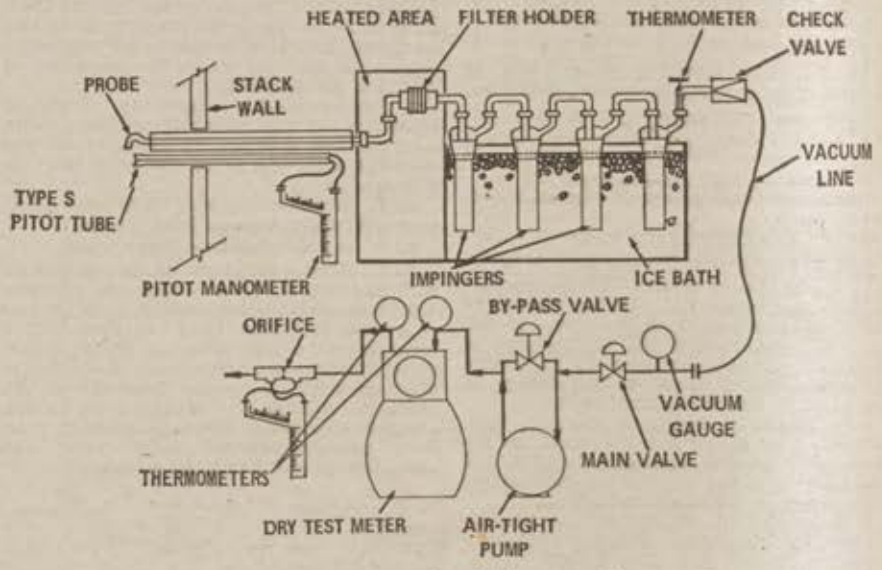


Figure 104-1. Beryllium sampling train

2.1.3 *Pitot tube.*—Type S (figure 104–2), or equivalent, with a coefficient within 5 percent over the working range, attached to probe to monitor stack gas velocity.

2.1.4 *Filter holder.*—Pyrex glass. The filter holder must provide a positive seal against leakage from outside or around the filter. A heating system capable of maintaining the filter at a minimum temperature in the range of the stack temperature may be used to prevent condensation from occurring.

2.1.5 *Impingers.*—Four Greenburg-Smith impingers connected in series with glass ball joint fittings. The first, third, and fourth impingers may be modified by replacing the tip with a ½-inch i.d. glass tube extending to one-half inch from the bottom of the flask.

2.1.6 *Metering system.*—Vacuum gauge, leakless pump, thermometers capable of measuring temperature to within 5° F, dry gas meter with 2 percent accuracy, and related equipment, described in APTD-0581, to maintain an isokinetic sampling rate and to determine sample volume.

2.1.7 *Barometer.*—To measure atmospheric pressure to ± 0.1 in Hg.

2.2 *Measurement of stack conditions (stack pressure, temperature, moisture and velocity)*—2.2.1 *Pitot tube.*—Type S, or equivalent, with a coefficient within 5 percent over the working range.

2.2.2 *Differential pressure gauge.*—Inclined manometer, or equivalent, to measure velocity head to within 10 percent of the minimum value.

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[1] These documents are available for a nominal cost from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Va. 22151.

[2] Mention of trade names on specific products does not constitute endorsement by the Environmental Protection Agency.

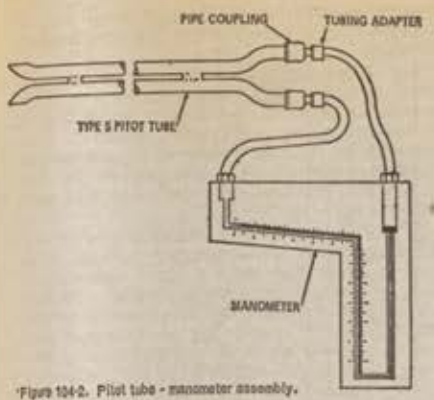


Figure 104-2. Pilot tube - manometer assembly.

2.2.3 *Temperature gage.*—Any temperature measuring device to measure stack temperature to within 5° F.

2.2.4 *Pressure gage.*—Pilot tube and inclined manometer, or equivalent, to measure stack pressure to within 0.1 in Hg.

2.2.5 *Moisture determination.*—Wet and dry bulb thermometers, drying tubes, condensers, or equivalent, to determine stack gas moisture content to within 1 percent.

2.3 *Sample recovery*—2.3.1 *Probe cleaning rod.*—At least as long as probe.

2.3.2 *Leakless glass sample bottles.*—500 ml.

2.3.3 *Graduated cylinder.*—250 ml.

2.3.4 *Plastic jar.*—Approximately 300 ml.

2.4 *Analysis*—2.4.1 *Atomic absorption spectrophotometer.*—To measure absorbance at 234.8 nm. Perkin Elmer Model 303, or equivalent, with N_2O/acetylene burner.

2.4.2 *Hot plate.*

2.4.3 *Perchloric acid fume hood.*

3. *Reagents*—3.1 *Stock reagents.*—3.1.1 *Hydrochloric acid.*—Concentrated.

3.1.2 *Perchloric acid.*—Concentrated, 70 percent.

3.1.3 *Nitric acid.*—Concentrated.

3.1.4 *Sulfuric acid.*—Concentrated.

3.1.5 *Distilled and deionized water.*

3.1.6 *Beryllium powder.*—98 percent minimum purity.

3.2 *Sampling*—3.2.1 *Filter.* — Millipore AA, or equivalent. It is suggested that a Whatman 41 filter be placed immediately against the back side of the Millipore filter as a guard against breaking the Millipore filter. In the analysis of the filter, the Whatman 41 filter should be included with the Millipore filter.

3.2.2 *Silica gel.*—Indicating type, 6 to 16 mesh, dried at 350° F for 2 hours.

3.2.3 *Distilled and deionized water.*

3.3 *Sample recovery*—3.3.1 *Distilled and deionized water.*

3.3.2 *Acetone.*—Reagent grade.

3.3.3 *Wash acid.*—1.1 V/V hydrochloric acid-water.

3.4 *Analysis.*—3.4.1 *Sulfuric acid solution, 12 N.*—Dilute 333 ml of concentrated sulfuric acid to 1 l with distilled water.

3.4.2 *25 percent V/V hydrochloric acid-water.*

3.5 *Standard beryllium solution*—3.5.1 *stock solution.*—1 μg/ml beryllium. Dissolve 10 mg of beryllium in 80 ml of 12 N sulfuric acid solution and dilute to a volume of 1000 ml with distilled water. Dilute a 10 ml aliquot to 100 ml with 25 percent V/V hydrochloric acid, giving a concentration of 1 μg/ml. This dilute stock solution should be prepared fresh daily. Equivalent strength (in beryllium) stock solutions may be prepared from beryllium salts as $BeCl_2$ and $Be(NO_3)_2$ (98 percent minimum purity).

4. *Procedure.* 4.1 Guidelines for source testing are detailed in the following sections. These guidelines are generally applicable; however, most sample sites differ to some degree and temporary alterations such as stack extensions or expansions often are required to insure the best possible sample site. Further, since beryllium is hazardous, care should be taken to minimize exposure. Finally, since the total quantity of beryllium to be collected is quite small, the test must be carefully conducted to prevent contamination or loss of sample.

4.2 Selection of a sampling site and minimum number of traverse points.

4.2.1 Select a suitable sampling site that is as close as practicable to the point of atmospheric emission. If possible, stacks smaller than 1 foot in diameter should not be sampled.

4.2.2 The sampling site should be at least 8 stack or duct diameters downstream and 2 diameters upstream from any flow disturbance such as a bend, expansion or contraction. For a rectangular cross-section, determine an equivalent diameter from the following equation:

$$D_e = \frac{2LW}{L+W} \qquad \text{eq. 104-1}$$

where:
D_e = equivalent diameter
L = length
W = width

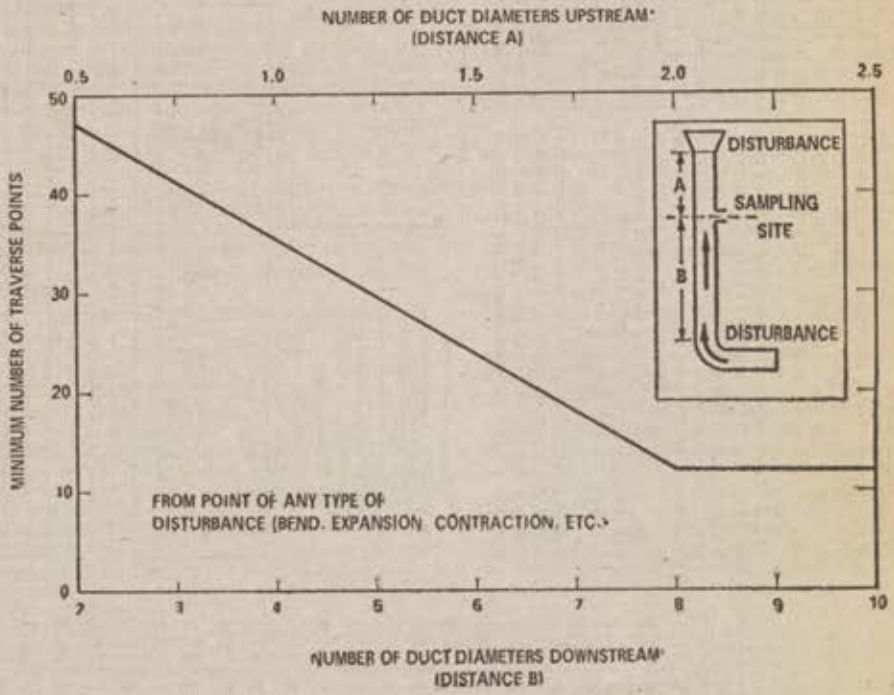


Figure 101-3. Minimum number of traverse points.



Figure 104-4. Cross section of circular stack showing location of traverse points on perpendicular diameters.

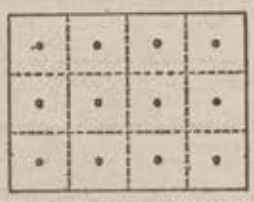


Figure 104-5. Cross section of rectangular stack divided into 12 equal areas, with traverse points at centroid of each area.

4.2.3 When the above sampling site criteria can be met, the minimum number of traverse points is four (4) for stacks 1 foot in diameter or less, eight (8) for stacks larger than 1 foot but 2 feet in diameter or less, and twelve (12) for stacks larger than 2 feet.

4.2.4 Some sampling situations may render the above sampling site criteria impractical. When this is the case, choose a convenient sampling location and use figure 104-3 to determine the minimum number of traverse points. However, use figure 104-3 only for stacks 1 foot in diameter or larger.

4.2.5 To use figure 104-3, first measure the distance from the chosen sampling location to the nearest upstream and downstream disturbances. Divide this distance by the diameter or equivalent diameter to determine the distance in terms of pipe diameters. Determine the corresponding number of traverse points for each distance from figure 104-3. Select the higher of the two numbers of traverse points, or a greater value, such that for circular stacks the number is a multiple of four, and for rectangular stacks the number follows the criteria of section 4.3.2.

4.2.6 If a selected sampling point is closer than 1 inch from the stack wall, adjust the location of that point to ensure that the sample is taken at least 1 inch away from the wall.

4.3 Cross-sectional layout and location of traverse points.

Table 104-1. Location of traverse points in circular stacks
(Percent of stack diameter from inside wall to traverse point)

Traverse point number on a diameter	Number of traverse points on a diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
1	14.6	6.7	4.4	3.3	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	85.4	25.0	14.7	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2
3		75.0	29.5	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6.0	5.5
4		93.3	70.5	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9
5			85.3	67.7	34.2	25.0	20.1	16.9	14.6	12.9	11.6	10.5
6			95.6	80.6	65.8	35.5	26.9	22.0	18.8	16.5	14.6	13.2
7				89.5	77.4	64.5	36.6	28.3	23.6	20.4	18.0	16.1
8				96.7	85.4	75.0	63.4	37.5	29.6	25.0	21.8	19.4
9					91.8	82.3	73.1	62.5	38.2	30.6	26.1	23.0
10					97.5	88.2	79.9	71.7	61.8	38.8	31.5	27.2
11						93.3	85.4	78.0	70.4	61.2	39.3	32.3
12						97.9	90.1	83.1	76.4	69.4	60.7	39.8
13							94.3	87.5	81.2	75.0	68.5	60.2
14							98.2	91.5	85.4	79.6	73.9	67.7
15								95.1	89.1	83.5	78.2	72.8
16								98.4	92.5	87.1	82.0	77.0
17									95.6	90.3	85.4	80.6
18									98.6	93.3	88.4	83.9
19										96.1	91.3	86.8
20										98.7	94.0	89.5
21											96.5	92.1
22											98.9	94.5
23												96.8
24												98.9

4.3.1 For circular stacks locate the traverse points on at least two diameters according to figure 104-4 and table 104-1. The traverse axes shall divide the stack cross section into equal parts.

4.3.2 For rectangular stacks divide the cross section into as many equal rectangular areas as traverse points, such that the ratio of the length to the width of the elemental areas is between 1 and 2. Locate the traverse points at the centroid of each equal area according to figure 104-5.

4.4 *Measurement of stack conditions.*—4.4.1 Set up the apparatus as shown in figure 104-2. Make sure all connections are tight and leak free. Measure the velocity head and temperature at the traverse points specified by §§ 4.2 and 4.3.

4.4.2 Measure the static pressure in the stack.

4.4.3 Determine the stack gas moisture.

4.4.4 Determine the stack gas molecular weight from the measured moisture content and knowledge of the expected gas stream composition. A standard Orsat analyzer has been found valuable at combustion sources. In all cases, sound engineering judgment should be used.

4.5 *Preparation of sampling train.*—4.5.1 Prior to assembly, clean all glassware (probe, impingers, and connectors) by soaking in wash acid for 2 hours. Place 100 ml of distilled water in each of the first two impingers, leave the third impinger empty, and place approximately 200 g of preweighted silica gel in the fourth impinger. Save a portion of the distilled water as a blank in the sample analysis. Set up the train and the probe as in figure 104-1.

4.5.2 Leak check the sampling train at the sampling site. The leakage rate should not be in excess of 1 percent of the desired sampling rate. If condensation in the probe or filter is a problem, probe and filter heaters will be required. Adjust the heaters to provide a temperature at or above the stack temperature. However, membrane filters such as the Millipore AA are limited to about 225° F. If the stack gas is in excess of about 200° F., consideration should be given to an alternate procedure such as moving the filter holder downstream of the first impinger to insure that the filter does not exceed its temperature limit. Place crushed ice around the impingers. Add more ice during the test to keep the temperature of the gases leaving the last impinger at 70° F. or less.

4.6 *Beryllium train operation.*—4.6.1 For each run, record the data required on the example sheet shown in figure 104-6. Take readings at each sampling point at least every 5 minutes and when significant changes in stack conditions necessitate additional adjustments in flow rate.

4.6.2 Sample at a rate of 0.5 to 1.0 ft.³/min. Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which would occur in a 24-hour period. In the case of cyclic operations, sufficient tests shall be made so as to allow accurate determination or calculation of the emissions which will occur over the duration of the cycle. A minimum sample time of 2 hours is recommended.

PLANT_____
LOCATION_____
OPERATOR_____
DATE_____
RUN NO._____
SAMPLE BOX NO._____
METER BOX NO._____
METER $\Delta H_@$_____
C FACTOR_____

SCHEMATIC OF STACK CROSS SECTION

AMBIENT TEMPERATURE_____
BAROMETRIC PRESSURE_____
ASSUMED MOISTURE, %_____
HEATER BOX SETTING_____
PROBE LENGTH, in._____
NOZZLE DIAMETER, in._____
PROBE HEATER SETTING_____

TRAVERSE POINT NUMBER	SAMPLING TIME (θ), min.	STATIC PRESSURE (P_g), in. Hg	STACK TEMPERATURE (T_s), °F	VELOCITY HEAD, (ΔP_g),	PRESSURE DIFFERENTIAL ACROSS ORIFICE METER (ΔH), in. H_2O	GAS SAMPLE VOLUME (V_m), ft.³	GAS SAMPLE TEMPERATURE AT DRY GAS METER		SAMPLE BOX TEMPERATURE, °F	IMPINGER TEMPERATURE, °F
							INLET ($T_{m_{in}}$), °F	OUTLET ($T_{m_{out}}$), °F		
TOTAL							Avg.	Avg.		
AVERAGE							Avg.			

Figure 104-6. Field data

4.6.3 To begin sampling, position the nozzle at the first traverse point with the tip pointing directly into the gas stream. Immediately start the pump and adjust the flow to isokinetic conditions. Sample for at least 5 minutes at each traverse point; sampling time must be the same for each point. Maintain isokinetic sampling throughout the sampling period. Nomographs which aid in the rapid adjustment of the sampling rate without other computations are in APTD-0576 and are available from commercial suppliers. Note that standard nomographs are applicable only for type S pitot tubes and air or a stack gas with an equivalent density. Contact EPA or the sampling train supplier for instructions when the standard monograph is not applicable.

4.6.4 Turn off the pump at the conclusion of each run and record the final readings. Immediately remove the probe and nozzle

from the stack and handle in accordance with the sample recovery process described in § 4.7.

4.7 *Sample recovery.*—4.7.1 (All glass storage bottles and the graduated cylinder must be precleaned as in § 4.5.1.) This operation should be performed in an area free of possible beryllium contamination. When the sampling train is moved, care must be exercised to prevent breakage and contamination.

4.7.2 Disconnect the probe from the impinger train. Remove the filter and any loose particulate matter from the filter holder and place in a sample bottle. Place the contents (measured to ±1 ml) of the first three impingers into another sample bottle. Rinse the probe and all glassware between it and the back half of the third impinger with water and acetone, and add this to the latter sample bottle. Clean the probe with a brush or a long slender rod and cotton balls. Use acetone while cleaning. Add these to the sample bottle. Retain a sample of the water and acetone as a blank. The total amount of wash water and acetone used should be measured for accurate blank correction. Place the silica gel in the plastic jar. Seal and secure all sample containers for shipment. If an additional test is desired, the glassware can be carefully double rinsed with distilled water and reassembled. However, if the glassware is to be out of use more than 2 days, the initial acid wash procedure must be followed.

4.8 Analysis.

4.8.1 *Apparatus preparation.*—Clean all glassware according to the procedure of section 4.5.1. Adjust the instrument settings according to the instrument manual, using an absorption wavelength of 234.8 nm.

4.8.2 *Sample preparation.*—The digestion of beryllium samples is accomplished in part in concentrated perchloric acid. *Caution*: The analyst must insure that the sample is heated to light brown fumes after the initial nitric acid addition; otherwise, dangerous perchlorates may result from the subsequent perchloric acid digestion. Perchloric acid also should be used only under a perchloric acid hood.

4.8.2.1 Transfer the filter and any loose particulate matter from the sample container to a 150 ml beaker. Add 35 ml concentrated nitric acid. Heat on a hotplate until light brown fumes are evident to destroy all organic matter. Cool to room temperature and add 5 ml concentrated sulfuric acid and 5 ml concentrated perchloric acid. Then proceed with step 4.8.2.4.

4.8.2.2 Place a portion of the water and acetone sample into a 150 ml beaker and put on a hotplate. Add portions of the remainder as evaporation proceeds and evaporate to dryness. Cool the residue and add 35 ml concentrated nitric acid. Heat on a hotplate until light brown fumes are evident to destroy any organic matter. Cool to room temperature and add 5 ml concentrated sulfuric acid, and 5 ml concentrated perchloric acid. Then proceed with step 4.8.2.4.

4.8.2.3 Weigh the spent silica gel and report to the nearest gram.

4.8.2.4 Samples from 4.8.2.1 and 4.8.2.2 may be combined here for ease of analysis. Replace on a hotplate and evaporate to dryness in a perchloric acid hood. Cool and dissolve the residue in 10.0 ml of 25 percent V/V hydrochloric acid. Samples are now ready for the atomic absorption unit. The beryllium concentration of the sample must be within the calibration range of the unit. If necessary, further dilution of sample with 25 percent V/V hydrochloric acid must be performed to bring the sample within the calibration range.

4.8.3 *Beryllium determination.*—Analyze the samples prepared in 4.8.2 at 234.8 nm using a nitrous oxide/acetylene flame. Aluminum, silicon and other elements can interfere with this method if present in large quantities. Standard methods are available, however, to effectively eliminate these interferences (see Reference 5).

5. *Calibration*—5.1 *Sampling train.*—5.1.1 Use standard methods and equipment as detailed in APTD-0576 to calibrate the rate meter, pitot tube, dry gas meter and probe heater (if used). Recalibrate prior to each test series.

5.2 *Analysis.*—5.2.1 Standardization is made with the procedure as suggested by the manufacturer with standard beryllium solution. Standard solutions will be prepared from the stock solution by dilution with 25 percent V/V hydrochloric acid. The linearity of working range should be established with a series of standard solutions. If collected samples are out of the linear range, the samples should be diluted. Standards should be interspersed with the samples since the calibration can change slightly with time.

6. *Calculations*—6.1 *Average dry gas meter temperature, stack temperature, stack pressure and average orifice pressure drop.*—See data sheet (figure 104-6).

6.2 *Dry gas volume.*—Correct the sample volume measured by the dry gas meter to stack conditions by using equation 104-2.

$$V_{m_s} = V_m \frac{T_s}{T_m} \frac{\left(P_{bar} + \frac{\Delta H}{13.6}\right)}{P_s} \qquad \text{eq. 104-2}$$

where:

V_{m_s} = Volume of gas sample through the dry gas meter (stack conditions), ft³.

V_m = Volume of gas sample through the dry gas meter (meter conditions), ft³.

T_s = Average temperature of stack gas, °R.

T_m = Average dry gas meter temperature, °R.

P_{bar} = Barometric pressure at the orifice meter, in Hg.

ΔH = Average pressure drop across the orifice meter, in H_2O.

13.6 = Specific gravity of mercury.

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in Hg.

6.3 *Volume of water vapor.*

$$W_{v_s} = K_w V_{l_c} \frac{T_s}{P_s} \qquad \text{eq. 104-3}$$

where:

V_{w_s} = Volume of water vapor in the gas sample (stack conditions), ft³.

$K_w = 0.00267 \frac{\text{in Hg-ft}^3}{\text{ml °R}}$, when these units are used.

V_{l_c} = Total volume of liquid collected in impingers and silica gel (see figure 104-7), ml.

T_s = Average stack gas temperature, °R.

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in Hg.

6.4 *Total gas volume.*

$$V_{total} = V_{m_s} + V_{w_s} \qquad \text{eq. 104-4}$$

where:

V_{total} = Total volume of gas sample (stack conditions), ft³.

V_{m_s} = Volume of gas through dry gas meter (stack conditions), ft³.

V_{w_s} = Volume of water vapor in gas sample (stack conditions), ft³.

6.5 *Stack gas velocity.*

Use equation 104-5 to calculate the stack gas velocity.

$$(v_s)_{avg.} = K_p C_p (\sqrt{\Delta p})_{avg.} \sqrt{\frac{(T_s)_{avg.}}{P_s M_s}} \qquad \text{eq. 104-5}$$

where:

$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

$K_p = 85.53 \frac{\text{ft}}{\text{sec}} \left(\frac{\text{lb-in Hg}}{\text{lb mole-°R-in H}_2\text{O}}\right)^{1/2}$, when these units are used.

C_p = Pitot tube coefficient, dimensionless.

$(T_s)_{avg.}$ = Average stack gas temperature, °R.

$(\sqrt{\Delta p})_{avg.}$ = Average square root of the velocity head of stack gas $(\text{in H}_2\text{O})^{1/2}$ (see figure 104-8).

P_s = Stack pressure, $P_{bar} \pm$ static pressure, in Hg.

M_s = Molecular weight of stack gas (wet basis)—the summation of the products of the molecular weight of each component multiplied by its volumetric proportion in the mixture, lb/lb-mole.

	VOLUME OF LIQUID WATER COLLECTED		
	IMPINGER VOLUME, ml	SILICA GEL WEIGHT, g	
FINAL			
INITIAL			
LIQUID COLLECTED			
TOTAL VOLUME COLLECTED		g*	ml

*CONVERT WEIGHT OF WATER TO VOLUME BY dividing total weight INCREASE BY DENSITY OF WATER. (1 g/ml):

$$\frac{\text{INCREASE, g}}{(1\ \text{g/ml})} = \text{VOLUME WATER, ml}$$

Figure 104-7. Analytical data.

PLANT_____

DATE_____

RUN NO._____

STACK DIAMETER, in._____

BAROMETRIC PRESSURE, in. Hg._____

STATIC PRESSURE IN STACK (P_g), in. Hg._____

OPERATORS_____

SCHEMATIC OF STACK CROSS SECTION

Traverse point number	Velocity head, in. H_2O	$\sqrt{\Delta_P}$	Stack Temperature (T_S), °F
AVERAGE:			

Figure 104-8. Velocity traverse data.

Figure 104-8 shows a sample recording sheet for velocity traverse data. Use the averages in the last two columns of figure 104-8 to determine the average stack gas velocity from equation 104-5.

6.6 *Beryllium collected.*—Calculate the total weight of beryllium collected by using equation 104-6.

$$W_t = V_t C_t - V_w C_w - V_a C_a \quad \text{eq. 104-6}$$

where:

W_t = Total weight of beryllium collected, μg.

V_t = Total volume of hydrochloric acid from step 4.8.2.4, ml.

C_t = Concentration of beryllium found in sample, $\mu g/ml$.

V_w = Total volume of water used in sampling (impinger contents plus all wash amounts), ml.

C_w = Blank concentration of beryllium in water, $\mu g/ml$.

V_a = Total volume of acetone used in sampling (all wash amounts), ml.

C_a = Blank concentration of beryllium in acetone, $\mu g/ml$.

6.7 *Total beryllium emissions.*—Calculate the total amount of beryllium emitted from each stack per day by equation 104-7. This equation is applicable for continuous operations. For cyclic operations, use only the time per day each stack is in operation. The total beryllium emissions from a source will be the summation of results from all stacks.

$$R = \frac{W_t (v_s)_{avg.} A_s}{V_{total}} \times \frac{86{,}400 \text{ seconds/day}}{10^6 \ \mu g/g} \quad \text{eq. 104-7}$$

where:

R = Rate of emission, g/day.

W_t = Total weight of beryllium collected, μg.

V_{total} = Total volume of gas sample (stack conditions), ft^3.

$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

A_s = Stack area, ft^2.

6.8 *Isokinetic variation (comparison of velocity of gas in probe tip to stack velocity).*

$$I = \frac{100 V_{total}}{A_n \Theta (v_s)_{avg.}} \quad \text{eq. 104-8}$$

where:

I = Percent of isokinetic sampling.

V_{total} = Total volume of gas sample (stack conditions), ft^3.

A_n = Probe tip area, ft^2.

Θ = Sampling time, sec.

$(v_s)_{avg.}$ = Average stack gas velocity, feet per second.

7. *Evaluation of results*—7.1 *Determination of compliance.*—7.1.1 Each performance test shall consist of three repetitions of the applicable test method. For the purpose of determining compliance with an applicable national emission standard, the average of results of all repetitions shall apply.

7.2 *Acceptable isokinetic results.*—7.2.1 The following range sets the limit on acceptable isokinetic sampling results:

If 90 percent $\leq I \leq$ 110 percent, the results are acceptable; otherwise, reject the test and repeat.

7. *References.*—1. Addendum to Specifications for Incinerator Testing at Federal Facilities, PHS, NCAPC, December 6, 1967.

2. Amos, M. D., and Willis, J. B., "Use of High-Temperature Pre-Mixed Flames in Atomic Absorption Spectroscopy," Spectrochim. Acta, 22: 1325, 1966.

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5. Fleet, B., Liberty, K. V., and West, T. S., "A Study of Some Matrix Effects in the Determination of Beryllium by Atomic Absorption Spectroscopy in the Nitrous Oxide-Acetylene Flame," Talanta, 17: 203, 1970.

6. Mark, L. S., Mechanical Engineers' Handbook, McGraw-Hill Book Co., Inc., New York, N.Y., 1951.

7. Martin, Robert M., Construction Details of Isokinetic Source Sampling Equipment, Environmental Protection Agency, APTD-0581.

8. Methods for Determination of Velocity, Volume, Dust and Mist Content of Gases, Western Precipitation Division of Joy Manufacturing Co., Los Angeles, Calif. Bulletin WP-50, 1968.

9. Perkin Elmer Standard Conditions (Rev. March 1971).

10. Perry, J. H., Chemical Engineers' Handbook, McGraw-Hill Book Co., Inc., New York, N.Y., 1960.

11. Rem, Jerome J., Maintenance, Calibration, and Operation of Isokinetic Source Sampling Equipment, Environmental Protection Agency, APTD-0576.

12. Shigehara, R. T., W. F. Todd, and W. S. Smith, Significance of Errors in Stack Sampling Measurements, Paper presented at the annual meeting of the Air Pollution Control Association, St. Louis, Mo., June 14-19, 1970.

13. Smith, W. S. et al., Stack Gas Sampling Improved and Simplified with New Equipment, APCA Paper No. 67-119, 1967.

14. Smith, W. S., R. T. Shigehara, and W. F. Todd, A Method of Interpreting Stack Sampling Data, Paper presented at the 63d annual meeting of the Air Pollution Control Association, St. Louis, Mo., June 14-19, 1970.

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16. Standard Method for Sampling Stacks for Particulate Matter, In: 1971 Book of ASTM standards, Part 23, Philadelphia, 1971, ASTM Designation D-2928-71.

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[FR Doc. 73-6423 Filed 4-5-73;8:45 am]

federal register

FRIDAY, APRIL 6, 1973
WASHINGTON, D.C.

Volume 38 ■ Number 66

PART III



DEPARTMENT OF LABOR

Employment Standards Administration

■

Minimum Wages for Federal and Federally Assisted Construction

Area Wage Determination Decisions, Modifications, and Supersedeas Decisions; Index

DEPARTMENT OF LABOR

Employment Standards Administration

MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION

Area Wage Determination Decisions, Modifications, and Supersedeas Decisions

Area wage determination decisions.—Area wage determination decisions of the Secretary of Labor specify, in accordance with applicable law and on the basis of information available to the Department of Labor from its study of local wage conditions and from other sources, the basic hourly wage rates and fringe benefit payments which are determined to be prevailing for the described classes of laborers and mechanics employed in construction activity of the character and in the localities specified therein.

The determinations in these decisions of such prevailing rates and fringe benefits have been made by authority of the Secretary of Labor pursuant to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Stat. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in 29 CFR 1.1 (including the statutes listed at 36 F.R. 306 following Secretary of Labor's Order No. 24–70) containing provisions for the payment of wages which are dependent upon determinations by the Secretary of Labor under the Davis-Bacon Act; and pursuant to the provisions of part 1 of subtitle A of title 29 of Code of Federal Regulations, Procedure for Predetermination of Wage Rates (37 F.R. 21138), and of Secretary of Labor's Orders 12–71 and 15–71 (36 F.R. 8755, 8756). The prevailing rates and fringe benefits determined in these decisions shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

Good cause is hereby found for not utilizing notice and public procedure thereon prior to the issuance of these determinations as prescribed in 5 U.S.C. 553 and not providing for delay in effective date as prescribed in that section, because the necessity to issue construction industry wage determinations frequently and in large volume causes procedures to be impractical and contrary to the public interest.

Area wage determination decisions are effective from their date of publication in the FEDERAL REGISTER without limitation as to time and are to be used in accordance with the provisions of 29 CFR parts 1 and 5. Accordingly, the applicable decision together with any modifications issued subsequent to its publication date shall be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable Federal prevailing wage law and 29 CFR part 5. The wage rates contained therein shall be the minimum paid under such contract by contractors and subcontractors on the work.

Modifications and supersedeas decisions to area wage determination decisions.—Modifications and supersedeas decisions to area wage determination decisions are based upon information obtained concerning changes in prevailing hourly wage rates and fringe benefit payments since the decisions were issued.

The determinations of prevailing rates and fringe benefits made in the modifications and supersedeas decisions have been made by authority of the Secretary of Labor pursuant to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Stat. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in 29 CFR 1.1 (including the statutes listed at 36 F.R. 306 following Secretary of Labor's Order No. 24–70) containing provisions for the payment of wages which are dependent upon determination by the Secretary of Labor under the Davis-Bacon Act; and pursuant to the provisions of part 1 of subtitle A of title 29 of Code of Federal Regulations, Procedure for Predetermination of Wage Rates, (37 F.R. 21138), and of Secretary of Labor's Orders 13–71 and 15–71 (36 F.R. 8755, 8756). The prevailing rates and fringe benefits determined in foregoing area wage determination decisions, as hereby modified, and/or superseded shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged in contract work of the character and in the localities described therein.

Modifications and supersedeas decisions are effective from their date of publication in the FEDERAL REGISTER without limitation as to time and are to be used in accordance with the provisions of 29 CFR parts 1 and 5.

Any person, organization, or governmental agency having an interest in the wages determined as prevailing is encouraged to submit wage rate information for consideration by the Department. Further information and self-explanatory forms for the purpose of submitting this data may be obtained by writing to the U.S. Department of Labor, Employment Standards Administration, Office of Special Wage Standards, Division of Wage Determinations, Washington, D.C. 20210. The cause for not utilizing the rulemaking procedures prescribed in 5 U.S.C. 553 has been set forth in the original area wage determination decision.

Set forth below in this document are the following:

New area wage determination decisions Nos. AP–289; AP–524; AP–498; AP–496; and AP–497 for the States of Montana, Nebraska, New Hampshire, and Rhode Island, respectively.

Modifications to area wage determination decisions for the following States (the numbers of the decisions being modified and their dates of publication in the FEDERAL REGISTER are listed with each State):

Connecticut:	
AP–471; AP–478	Mar. 9, 1973.
AP–473; AP–473; AP–474; AP–475; AP–476; AP–477.	Mar. 16, 1973.
Georgia:	
AP–148; AP–149	Jan. 19, 1973.
Illinois:	
AP–24	Oct. 6, 1972.
AP–616; AP–619; AP–620	Feb. 2, 1973.
AP–604; AP–617; AP–618	Jan. 26, 1973.
Maryland:	
AP–492	Mar. 9, 1973.
Massachusetts:	
AP–456; AP–457; AP–458; AP–459; AP–460; AP–461.	Jan. 19, 1973.
New York:	
AP–487	Mar. 9, 1973.
Oregon:	
AP–277	Mar. 23, 1973.
Pennsylvania:	
AP–479	Mar. 2, 1973.
Tennessee:	
AM–8610	June 19, 1972.
AP–139	Dec. 1, 1972.
Virginia:	
AP–492	Mar. 9, 1973.
Washington, D.C.:	
AP–491	Mar. 9, 1973.

Supersedeas decisions to area wage determination decisions for the following States (the numbers of the decisions being superseded and their dates of publication in the FEDERAL REGISTER are listed with each State; supersedeas decision numbers are in parentheses following the number of the decision being superseded):

California:	
AP–235 (AP–287)	Sept. 15, 1972.
AP–246 (AP–288)	Oct. 13, 1972.
Montana:	
AP–240 (AP–285); AP–241 (AP–286)	Sept. 22, 1972.
Nevada:	
AM–6197 (AP–290)	Nov. 19, 1971.
Oregon:	
AP–271 (284)	Mar. 23, 1973.
Washington:	
AP–263 (AP–283)	Mar. 9, 1973.

Signed at Washington, D.C., this 30th day of March 1973.

WARREN D. LANDIS,
Assistant Administrator,
Wage and Hour Division.

NEW DECISION

STATE: New Hampshire
DECISION NO.: AP-498
COUNTY: Hillsboro
DATE: Date of Publication
DESCRIPTION OF WORK: Residential Construction (consisting of single family homes and garden type apartments up to and including 4-stories).

6-New Hampshire-1-A 1

RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
Asbestos workers	$7.705	.40	.30		.01	
Boilermakers	8.705	.50	10%		.01	
Bricklayers, cement masons, marble setters, plasterers, stone masons, terrazzo workers and tile setters:						
Remainder of County	6.95	.40	.35		.01	
Hillsboro Antrim, Hancock, N. Branch, Hillsboro Upper and Lower Villages	7.25	.25				
Carpenters:						
Pelham:						
Carpenters and soft floor layers	8.75	.30	.30		.02	
Millwrights	8.50	.30	.30		.01	
Remainder of County:						
Carpenters and soft floor layers	6.56	.25	.20		.01	
Piledrivermen, wharf, dock builders and millwrights	7.36	.25	.20		.01	
Electricians:						
Pelham:						
Electricians	7.95	.25	1%		.02	
Remainder of County:						
Electricians	8.35	.25	1%			
Elevator constructors	9.125	.345	.23	2%a+b	.015	
Elevator constructors' helpers	6.39	.345	.23	2%a+b	.015	
Elevator constructors' helpers (Prob.)	4.56					
Glaziers	6.02	.25	.16			
Ironworkers:						
Structural, ornamental and reinforcing	7.70	.45	.80		.02	
Laborers, Bldg.:						
Common laborers, wreckers, tenders, and hod carriers, asphalt rakers	5.40	.20	.25			
Plasterers tenders	5.55	.20	.25			
Drillers, pavement breakers, jackhammer operators, and chipping gun operator	5.80	.20	.25			
All other pneumatic tool operator on boiler and stack work	6.30	.20	.25			
Boiler and stack work	5.90	.20	.25			
Lead burners	8.25	.30		c	.01	
Line Construction:						
Linemen	6.55		1%	d		
Equipment operator	6.10		1%	d		
Groundman	4.33		1%	d		
Driver groundman	5.10		1%	d		
Marble setters' helpers	5.05	.15	.10			
Painters:						
Brush	4.70	.175				
Steel, open structural and spray	5.95	.175				
Steel, enclosed over 25'	5.80	.175				
Steeplejack	6.80	.175				

RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Or
Plumbers and Steamfitters:						
Hudson and Pelham	$8.10	.40	.40		.02	
Remainder of County	8.08	.35	.25		.02	
Roofers:						
Composition	5.65					
Helpers	4.90					
Sheet metal workers	8.02	.31	.32			
Sprinkler fitters	7.45	.30	.50		.05	
Terrazzo workers' helpers	7.40	.20	.10			
Tile setters' helpers	5.05	.15	.10			
Welders - receive rate prescribed for craft performing operation to which welding is incidental.						

PAID HOLIDAYS:
A-New Years' Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:

a. Employer contributes 4% basic hourly rate for 5 years or more of service or 2% basic hourly rate for 6 months to 5 years of service as Vacation Pay Credit.

b. Holidays: A through F.

c. Holidays: A through F, Washington's Birthday and Good Friday, and Christmas Eve, providing employee has worked 45 full days during the 120 calendar days prior to the holiday, and the regular scheduled work days immediately preceding and following the holiday.

d. Holidays C, D, E, F, provided the employee has been employed 10 working days prior to the holiday and provided the employee works the scheduled work day immediately preceding and following the holiday.

RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
POWER EQUIPMENT OPERATORS:						
Shovels, cranes, draglines, derricks, elevators with Chicago boom, backhoes, gradalls, elevating graders, pile driving rigs, concrete road, pavers, all three drum hoisting and trenching machines	$8.00	.25	.40	a	.05	
Rotary drill (with mounted compressor) compressor house (3 to 6 compressors) rock and earth boring machines (excluding McCarthy and similar drills), graders, 4 yards and over front end loader, two drum hoists, high fork lifts with capacity of 15 feet and over	7.75	.25	.40	a	.05	
Bulldozers, push cats, scrapers, (self-propelled or tractor drawn), asphalt paver, front end loader (3/4 yard up to 4 yards), well drillers, mechanics, pumpcrete machines, concrete pumps, and similar type pumps, engineer or fireman on high pressure boiler (on job), self-loading batch plant, well point operators, (including installing), engineer-in-charge of powered grease truck, all automatic elevators (permanent or temporary) operated manually or by remote controls	7.55	.25	.40	a	.05	
Single drum hoist, self-powered roller, self-propelled compactors, power pavement breakers, concrete pavement finishing machines, two bag mixers with skip, front end loaders (under 3/4 yard), McCarthy and similar drills, batch plant (not self-loading), bulk cement plants, self-propelled material spreaders, A-frame trucks, and fork lifts (up to fifteen feet)	7.125	.25	.40	a	.05	
Compressor 315 cubic feet and over, one or two), pumps (4 inches and over-total discharge) when total discharge is over 12 inches, classification 3 will be paid, tractor (without blade or bucket) drawing roller, compactors or other machines used for pulverizing, grading or seeding	7.10	.25	.40	a	.05	

RESIDENTIAL CONSTRUCTION (Continued)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
Compressors (up to 315 cubic feet) small mixers, pumps (up to 4 inches), power heaters, welding machines (when 3 or more heaters or welding machines are used on one job, classification 4 rate will be paid), conveyor, oiler, including helpers on grease trucks and grease trucks with hand greasing equipment	$6.55	.25	.40	a	.05	
Cranes with boom lengths of 200 feet or more	9.00	.25	.40	a	.05	
Crane with boom length of 150 feet or more	8.50	.25	.40	a	.05	

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTE:
a. Holidays: A through F and Veterans Day, Washington's Birthday and Columbus Day.

N.H.-1-TD-1-A 1 of

TRUCK DRIVERS, RESIDENTIAL	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
Two Axle Equipment	$3.90	.25	.20	a		
Three Axle Equipment including low beds	4.11	.25	.20	a		
Special earth hauling equipment other than conventional type on the road trucks and semitrailers trailer dumps	4.32	.25	.20	a		

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day;
C-Independence Day; D-Labor Day;
E-Thanksgiving Day; F-Christmas Day.

FOOTNOTE:

a. Holidays: A through F, plus Washington's Birthday, Veterans' Day and Columbus Day; (provided employee works two days in the calendar week in which the holiday falls; reports for work the last day assigned prior to the holiday and the first day assigned following the holiday).

NEW DECISION

STATE: Montana
DECISION NO. AP-289
COUNTY: Silver Bow
DATE: Date of Publication
DESCRIPTION OF WORK: Residential construction consisting of single family homes and garden type apartments up to and including 4 stories.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Othe
Bricklayers	$7.00					
Carpenters	5.87	.30	.35	.50		
Cement masons	4.90	.30		.60		
Electricians	6.65	.30	1%		1%	
Ironworkers:						
Structural, Ornamental and Reinforcing	7.10	.40	.65		.05	
Painters, brush	5.56					
Plumbers	6.30	.25	.15		.05	
Sheet metal workers	6.55	.27	.20			

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
LABORERS						
Common laborer; Laborers with roofers; Moving, cleaning, oiling and carring to the next point of erection, and the stripping of forms which are not to be re-used, and of forms on all flat arch work; Laborer dumpman; Fence erector and installer - includes the installation and erection of highway fences, guard rails, median curbs, reference posts, guide posts and right-of-way markers; Breaking and drilling concrete, by hand, except for blasting; Breaking and drilling of asphalt pavement by hand; Mixing and paving cold asphalt pavement; Axeman; Chuck tender and nipper, above ground; Nozzleman, air and water; Scissorman; Stake jumper	4.225	.15	.20	.405	.02	
Riprapping of stone, rock or brick	4.30	.15	.20	.405	.02	
Hand faller	4.305	.15	.20	.405	.02	
Post hole digger, power auger	4.32	.15	.20	.405	.02	
Tunnel and shafts - Free air, bull-gang, pot tender	4.325	.15	.20	.405	.02	
Mechanical tamper; Pavement breaker or other power tools used by laborers not otherwise classified	4.35	.15	.20	.405	.02	
Installing metallic or non-metallic highway culvert pipe incl. sectional plate pipe 48" and under	4.375	.15	.20	.405	.02	
Choker setter; Pipewrapper; Power saw (bucking and falling); Brakeman; Chucktenders; Muckers; Nippers; Primerlouseman	4.385	.15	.20	.405	.02	
Wagon driller, running jackhammer or hand drilling for blasting and sand-blasting; Car or turck mounted air operated drills	4.40	.15	.20	.405	.02	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LABORERS(Cont'd)						
Laying of all sewer tile or drain pipe; Mixing and paving hot asphalt pavement	4.475	.15	.20	.405	.02	
Powderman	4.50	.15	.20	.405	.02	
Highscaler; Concrete nozzleman; Miners	4.585	.15	.20	.405	.02	
Core drill operator	4.825	.15	.20	.405	.02	

MON-3-PEO-1-f (1-4)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
POWER EQUIPMENT OPERATORS:						
A-FRAME TRUCK CRANE	$ 6.71	.45	.45		.02	
AIR COMPRESSOR, single	6.40	.45	.45		.02	
AIR COMPRESSOR, 2 or more; Belt finishing; Conveyor loader, over 42" belt; Roller, steel & self-propelled rubber on other than blade or hot-mix oil paving	6.57	.45	.45		.02	
AIR DOCTOR; Asphalt paving machine, or screed; Bit grinder; Bituminous mixer, paver; Boring machine, large (for guard rail holes); Bulldozer, rubber-tired or otherwise; Concrete batch plant, 1 & 2 mixers; Concrete bucket dispatcher; Concrete Curing Machine; Concrete finishing machine, paving; Concrete float & spreader; Concrete Power saw, self-propelled; Concrete travel batcher; Crusher and/or screening plant; Distributor; Elevating grader; Gradall; Heavy duty rotary drills (Quarry Master, Joy drills & similar types); Hoist, or air tugger, 2 or more drums; Hot plant; Hot plant; Hot plant fireman (when in operation); Industrial Locomotive, all types; Loaders, rubber-tired, over 1 yd. to & incl. 3 yds.; Loaders, track-type, up to & incl. 5 yds.; Loaders, traxacavator & Athey; Loader & Hoe combination, rubber-tired, loader 1 yd. & under, hoe 1 yd. & under; Mountain logger or similar; Mucking Machine; Pavement breaker, Emsco & similar; Power auger, large truck or tractor, mounted & punch; Power mixer, single or double drum; Power saw, self-propelled, multiple cut; Pumpcrete or grout machine; Push tractor; Refrigerator plant; Roller, steel & self-propelled rubber on Blade on hot-mix oil paving Roller, 25 tons, working weight or over, any type or make; Roller, Wagner & similar; Ross & similar type Carriers (on Constr. site); Scraper DW 10; Scraper, DW 15, 20, 21 & similar if Power unit is not used; Self-propelled sheepsfoot & similar; Shov-						

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MON-3-PEO-1-f (2-4)

POWER EQUIPMENT OPERATORS: (Cont)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oths
els, incl. all attachs, under 1 yd.; Trenching machine; Turnhead conveyor or head tower op. on batch plant; water pull, when used for compaction; Washing & screening plant	6.87	.45	.45		.02	
AUTOMATIC FINEGRADER, gurries & similar; Motor patrol; Paving & mixing machine; Scraper, DW 15, 20, 21 & similar if power unit is used; Scraper, single engine; Slip form paver	7.00	.45	.45		.02	
BORING MACHINE; Concrete mixer, 3 bags & under; Fireman; Heavy duty rotary drill helper; Retort op.	6.46	.45	.45		.02	
BROOM OP., self-propelled	6.54	.45	.45		.02	
CABLEWAY OP.	7.38	.45	.45		.02	
CEMENT SILO	6.66	.45	.45		.02	
CENTRAL MIXING PLANTS, concrete dams & stationary	7.12	.45	.45		.02	
CHAIN BUCKET LOADER; Chip-gravel spreader self-propelled; DW 10, 15, 20 tractor pulling roller	6.59	.45	.45		.02	
CONCRETE BATCH PLANT OP., 3 & 4 mixers	7.07	.45	.45		.02	
CONCRETE BATCH PLANT OP., 5 mixers & over	7.27	.45	.45		.02	
CONCRETE BATCH PLANT OILER, up to & incl. 2 mixers	6.39	.45	.45		.02	
CONCRETE BATCH PLANT OILER, 3 mixers & over	6.70	.45	.45		.02	
CONCRETE MIXER OP., 4 bags & over	6.63	.45	.45		.02	
CONVEYOR LOADER, to & incl. 42" belt	6.45	.45	.45		.02	
CRANE, to & incl. 80' boom with jib	7.03	.45	.45		.02	
CRANE, 81' to 130' boom	7.18	.45	.45		.02	
CRANE, 131' to 150' boom	7.23	.45	.45		.02	

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MON-3-PEO-1-f (3-4)

POWER EQUIPMENT OPERATORS: (Cont)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
CRANE, 151' boom & over	7.28	.45	.45		.02	
CRANE OILER; Oiler driver, rubber-tired cranes	6.44	.45	.45		.02	
CRANES, electric overhead; Shovels, incl. all attachs. 1 yd. to & incl. 3 yds.; Track type tractor, on euclid loader	7.05	.45	.45		.02	
CRANE, TOWER; Scraper, tandem or (engine)	7.36	.45	.45		.02	
CRANE, WHIRLEY	7.40	.45	.45		.02	
CRANE, WHIRLEY OILER; hydralift & similar; Oiler, hoist house, dams; Shovel oiler, over 3 yds.; Winch truck with boom	6.77	.45	.45		.02	
CRUSHER AND/OR SCREENING PLANT HELPER, (If over 2 separate units); Crusher oiler; Field equip. service helper; Hot plant oiler, 100 tons per hr. or over; Mechanic and/or welder helper on job; Oilers, other than shovels & cranes; Shovel oiler, 3 yds. & under; Washing and screening plant oiler	6.36	.45	.45		.02	
CRUSHER CONVEYOR, when required; Farm type tractor, up to & incl. 50 H.P.; Grade setter	6.33	.45	.45		.02	
DRILLING MACHINE (does not include Jackhammer, Wagon drillers or waterlines)	6.78	.45	.45		.02	
EUCLID LOADER & similar; Loader & hoe combination, rubber-tired, loader 1 yd. to & incl. 3 yds., hoe over 1 yd.	7.06	.45	.45		.02	
FARM TYPE TRACTOR, over 50 H.P.; Heaters, Herman Nelson & similar	6.41	.45	.45		.02	
FIELD EQUIPMENT SERVICE MAN	6.79	.45	.45		.02	
FORK LIFT (On constr. site)	6.68	.45	.45		.02	
HOIST, OR AIR TUGGER, single drum; Farm grader	6.64	.45	.45		.02	

MOW-3-PEO-1-f (4-4)

POWER EQUIPMENT OPERATORS: (Cont.)	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
FULLER KENYON PUMP; Loaders (Barber Green & similar)	6.52	.45	.45		.02	
HELICOPTER HOIST	7.37	.45	.45		.02	
LOADERS, RUBBER-TIRED, 1 yd. & under	6.58	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 3 yds. to & incl. 5 yds.	6.99	.45	.45		.02	
LOADERS, RUBBER-TIRED, 5 yds. to & incl. 10 yds.	7.09	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 10 yds, to & incl. 15 yds.	7.19	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 15 yds. (factory rating not to incl. sideboards)	7.29	.45	.45		.02	
LOADERS, TRACK-TYPE, over 5 yds. to & incl. 10 yds. Scraper, twin engine	7.10	.45	.45		.02	
LOADERS, TRACK-TYPE, over 10 yds. to & incl. 15 yds.	7.20	.45	.45		.02	
LOADERS, TRACK-TYPE, over 15 yds.	7.30	.45	.45		.02	
MECHANIC AND/OR WELDER, on job	6.94	.45	.45		.02	
MIXERMOBILE	6.95	.45	.45		.02	
PILEDRIVER (when shovel equip. is not used)	6.52	.45	.45		.02	
QUAD CAT	7.17	.45	.45		.02	
SCRAPER, single or twin engine pulling belly dump trailer	7.25	.45	.45		.02	
SHOVELS, incl. all attachs., over 3 yds. to & incl. 5 yds., Stiff-leg derrick & guy derrick	7.32	.45	.45		.02	
SHOVELS, incl. all attachs., over 5 yds.	7.45	.45	.45		.02	

MONT-1-TD-1-2-3-f (1 of 2)

TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Oth
COMBINATION Truck; Concrete Mixer & Transit Mixer:						
To & incl. 4 cu. yds.	$5.80	.45	.30			
Over 4 cu. yds. to & incl. 6 cu. yds.	5.88	.45	.30			
Over 6 cu. yds. to & incl. 8 cu. yds.	5.96	.45	.30			
Over 8 cu. yds. to & incl. 10 cu. yds.	6.04	.45	.30			
Over 10 cu. yds. - additional $.08 per hour each additional 2 cu. yds. increment						
DISTRIBUTOR DRIVER & HELPER	5.73	.45	.30			
DRY BATCH TRUCKS:						
3 Batch or under	5.55	.45	.30			
Over 3 Batch to & incl. 5 Batch	5.68	.45	.30			
Over 5 Batch to & incl. 10 Batch	5.84	.45	.30			
Over 10 Batch to & incl. 15 Batch	6.00	.45	.30			
Over 15 Batch - additional $.15 per hour each additional 5 Batch increment						
DUMPMAN, GRAVEL SPREADER BOX; Pickup Driver, Hauling Materials; Pilot Car Driver, Teamsters & Helpers; Warehousemen, Partsmen, Cardex men, Warehouse Expediter	5.55	.45	.30			
DUMP TRUCKS & SIMILAR EQUIPMENT WATER LEVEL CAPACITY, INCLUDING SIDEBOARDS:						
7 cu. yds. or less	5.55	.45	.30			
Over 7 cu. yds. to & incl. 10 cu. yds.	5.68	.45	.30			
Over 10 cu. yds. to & incl. 15 cu. yds.	5.84	.45	.30			
Over 15 cu. yds. to & incl. 20 cu. yds.	5.98	.45	.30			
Over 20 cy. yds. to & incl. 25 cu. yds.	6.04	.45	.30			
Over 25 cu. yds. to & incl. 30 cu.yds.	6.10	.45	.30			
Over 30 cu. yds. to & incl. 35 cu.yds.	6.16	.45	.30			
Over 35 cu. yds. to & incl. 40 cu.yds.	6.22	.45	.30			
Over 40 cu. yds. to & incl. 45 cu yds.	6.28	.45	.30			
Over 45 cu. yds. - additional $.06 per hour each additional 5 cu. yds. increment						
DUMPSTERS	5.68	.45	.30			
IH 20, IH 21, or EUCLID TRACTORS, PULLING P.R. 21 or SIMILAR DUMP WAGONS:						
To & incl. 25 cu. yds.	6.04	.45	.30			
Over 25 cu. yds. to & incl. 30 cu. yds.	6.10	.45	.30			
Over 30 cu. yds. - additional $.06 per hour each additional 5 cu. yd. increment						

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MONT-1-TD-1-2-3-f (2 of 2)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oil
SERVICEMEN	$6.29	.45	.30			
POWDER TRUCK DRIVER (bulk unloader type)	5.73	.45	.30			
FLAT TRUCKS:						
To & incl. 3 Tons	5.55	.45	.30			
Over 3 Tons Factory rating	5.90	.45	.30			
FUEL TRUCK; SERVICE TIREMEN	6.02	.45	.30			
LOWBOYS, FOUR-WHEEL TRAILER; FLOAT SEMI-TRAILER	5.90	.45	.30			
LUMBER CARRIERS, LIFT TRUCKS; Power Broom	5.64	.45	.30			
WATER TANK DRIVERS, PETROLEUM PRODUCTS DRIVERS:						
2,500 gals & under	5.55	.45	.30			
Over 2,500 gals to & incl. 4,500 gals	5.84	.45	.30			
Over 4,500 gals to & incl. 6,000 gals	6.04	.45	.30			
Over 6,000 gals to & incl. 8,000 gals	6.10	.45	.30			
Over 8,000 gals to & incl. 10,000 gals	6.18	.45	.30			
Over 10,000 gals - additional $.08 per hour each additional 2,000 gals increment						
WINCH, A-FRAME, SWEDISH CRANE, HYDRA-LIFT, GROUTCRETE, & COMBINATION MULCHING, SEEDING & FERTILIZING	5.80	.45	.30			
TRUCK MECHANIC	6.29	.45	.30			
ALL TUNNEL & UNDERGROUND WORK 10% ADDITIONAL						

STATE: Nebraska COUNTIES: Douglas and Sarpy
DECISION NUMBER: AP-52h DATE: Date of Publication
DESCRIPTION OF WORK: Residential Construction, single family homes and garden type apartments up to and including 4 stories.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
BRICKLAYERS, Stonemasons	$7.45	.20	.20	.225		
CARPENTERS:						
Carpenters	6.86	.25	.20	.20	.02	
Piledrivermen	6.985	.25	.20	.20	.02	
Millwrights	7.11	.25	.20	.20	.02	
CEMENT MASONS	7.09	.25	.20			
ELECTRICIANS	8.68	.40	1%+.40		1/4%	
GLAZIERS	4.75	.20	.10			
IRONWORKERS:						
Structural, Ornamental, Reinforcing	7.00	.25	.20			
LABORERS:						
Common laborers	4.70	.125	.10			
Buggymobile operators; mortar mixers	4.825	.125	.10			
Mason tenders	4.825	.125	.10			
Machine and air tool operator	4.95	.125	.10			
Plasterer tenders	4.975	.125	.10			
Painters, brush	6.95		.15			
Painters, paperhangers	7.20		.15			
PLASTERERS	6.575	.125	.20			
PLUMBERS; Steamfitters	8.64	.25	.45		.05	
ROOFERS:						
Composition	6.58	.15	.20	.20	.01	
Slate; tile	6.88	.15	.20	.20	.01	
SHEET METAL WORKERS	7.85	.15				
SOFT FLOOR LAYERS	6.80					
TRUCK DRIVERS, single axle	5.35	.20	.10			
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.						
POWER EQUIPMENT OPERATORS:						
Oilers, greasers, mechanics helpers	$5.98	.25	.20			
Oiler drivers (motor truck crane)	6.08	.25	.20			
Spread oiler	6.59	.25	.20			
Conveyors and heaters; tractors 35 h.p. or under air compressors, pumps and welding machine operators	6.33	.25	.20			
Bulldozers and fork lifts	6.85	.25	.20			
Blades, end loaders, self-propelled scrapers	6.95	.25	.20			
Concrete pumps and tractors over 35 h.p.; one drum hoist; straddle truck	6.85	.25	.20			
Two drum hoist; trenching machines, pile drivers, dredges, heavy duty mechanics; shovels, draglines, clamshells, orange peel; derricks, cranes; backhoe, winch truck and side boom or cat boom; locomotives; firemen used on high pressure boilers in construction work; economobile; and electric hammers and extractors	7.20	.25	.20			

STATE: Rhode Island
DECISION NO.: AP-496
COUNTY: Providence
DATE: Date of Publication
DESCRIPTION OF WORK: Residential Construction (consisting of single family homes and garden type apartments up to and including 4 stories).

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RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	C
Asbestos workers	$8.70	.39	.35		.005	
Boilermakers	8.705	.50	10%		.01	
Bricklayers, cement masons and stone masons:						
Ashton, Berkeley, Central Falls, Cumberland, Lincoln, Lonsdale, Pawtucket and Valley Falls	8.70	.25	.25		.01	
Bricklayers, cement masons, plasterers, stone masons, marble, tile and terrazzo workers:						
Woonsocket, N. Smithfield, Burrillville and Cumberland Hill	8.67	.25	.30		.01	
Remainder of Providence County:						
Bricklayers and stone masons	8.57	.25	.35		.01	
Cement masons	7.95	.50	.35			
Marble, tile and terrazzo workers	8.55	.25	.35			
Plasterers	8.50	.20				
Carpenters, soft floor layers, piledrivermen:						
Burrillville, N. Smithfield, Woonsocket Townships	7.67	.25	.25			
Remainder of Providence County:						
Carpenters, soft floor layers and piledrivermen	8.25	.35	.35		.01	
Millwrights	8.50	.35	.35		.01	
Electricians	8.35	.18	1%		.02	
Elevator constructors	6.87	.17	.185	½%+a+b	.005	
Elevator constructors' helpers	4.81	.17	.185	½%+a+b	.005	
Elevator constructors' helpers (Prob.)	3.435					
Glaziers	7.74	.42	.30	a	.01	
Ironworkers: Str., Orn., Reinforcing	7.70	.45	.80+.50		.02	
Laborers:						
Laborers, Building:						
Laborers, carpenters tender, cement finisher tenders, mason tenders	6.50	.40	.40		.05	
Jackhammers, paving breaker, chain saw pipelayers, mechanical grinder, all other pneumatic tools, barco type jumping tampers	6.75	.40	.40		.05	
Plasterers tenders	6.30	.25	.15			
Powdermen blasters	7.25	.40	.40			
Laborers, Wrecking:						
Laborers, signalmen	6.50	.40	.40		.05	
Airman, burner, jackhammer	6.75	.40	.40		.05	

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RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	C
Lathers	$7.40	.45	.50		.01	
Lead burners	7.80	.30		c	.01	
Line Construction:						
Linemen	7.14	.20	1%	d		
Driver Groundman	5.58	.20	1%	d		
Groundman	5.07	.20	1%	d		
Equipment operator	6.31	.20	1%	d		
Marble, tile and terrazzo workers' helpers	7.23		.50			
Painters:						
Brush	6.95	.25	.25			
Structural steel	7.20	.25	.25			
Spray	7.95	.25	.25			
Plumbers	8.55	.35	.35			
Roofers:						
Composition, waterproofers	7.85	.20	.25			
Slate, tile and precast concrete	8.05	.20	.25			
Helpers, Class A	7.00	.20	.25			
Helpers, Class B	6.45	.20	.25			
Sheet metal workers	8.43	.36	.35		.02	
Sprinkler fitter	9.07	.30	.50		.01	
Steamfitters, pipefitters	8.82	.35	.80		.03	
Truck Drivers: Residential						
2-Axle; dumps	5.31	.30	.50			
3-Axle; trailers	5.39	.30	.50			
Low beds, trailers (24 tons and over); trailers (I-Beam), specialized earth moving equipment (Euclid type)	5.64	.30	.50			
Euclid type equipment over 35 ton capacity	5.89	.30	.50			
Welders - receive rate prescribed for craft performing operation to which welding is incidental.						

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:

a. Employer contributes 4% basic hourly rate for 5 years or more of service or 2% basic hourly rate for 6 months to 5 years of service as Vacation Pay Credit.

b. Holidays: A through F.

c. Holidays: A through F, Washington's Birthday, Good Friday and Christmas Eve provided employee has worked 45 full days during the 120 calendar days prior to the holiday, and the regular scheduled work days immediately preceding and following the holiday.

d. Paid Holiday: A through F, Bunker Hill day provided employee has been employed 10 working days prior to the holiday and provided the employee worked the scheduled work day immediately preceding and following the holiday.

e. Paid Holiday: "D".

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RESIDENTAL CONSTRUCTION POWER EQUIPMENT OPERATORS	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
Digging Machines, cranes, pile drivers, lighters, locomotives, derricks, hoists pavers, and front-end loaders 3 yds. and over	$9.35	.40	.40		.05	
Economobile type equipment	9.10	.40	.40		.05	
Fork lift	8.85	.40	.40		.05	
Firemen and Oilers	7.45	.40	.40		.05	
Bulldozers, graders, spreaders, tractors, scrapers, rollers and front-end loaders less than 3 yds.	8.00	.40	.40		.05	
Pippin type backhoes	8.30	.40	.40		.05	
Maintenance Engineers	7.90	.40	.40		.05	
Well-point Installation	8.05	.40	.40		.05	
Gas or electric driven pumps, heater, concrete mixers, stone crushers, air compressors, welding machines and generators for light plants	8.20	.40	.40		.05	

NEW DECISION

AP-497 P. 2

STATE: Rhode Island
DECISION NO.: AP-497
COUNTY: Washington
DATE: Date of Publication
DESCRIPTION OF WORK: Residential Construction (consisting of single family homes and garden type apartments up to and including 4-stories).

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RESIDENTIAL CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
Asbestos workers	$8.70	.39	.35		.005	
Boilermakers	8.705	.50	10%		.01	
Bricklayers and stone masons:						
Westerly, Hopkington, So. Kingstown, Charlestown, Richmond, Wakefield, Peace Dale, Kingston	8.02	.25	.35			
Exeter, Johnson, No. Kingstown, Narragansett (Including the Pier of Point Judith)	8.57	.25	.35		.01	
Carpenters and soft floor layers:						
North Kingston:						
Carpenters, soft floor layers & pile-drivermen	8.25	.35	.35		.01	
Millwrights	8.50	.35	.35		.01	
Remainder of County:						
Carpenters, soft floor layers & pile-drivermen	8.15	.35	.35			
Millwrights	8.40	.35	.35			
Cement masons:						
Westerly, Hopkington, So. Kingstown, Charlestown, Richmond, Wakefield, Peace Dale, Kingston	6.075	.15	.20			
Exeter, Narragansett, No. Kingstown, Gould	7.95	.50	.35			
Electricians:						
Westerly Township	8.35	.40	1%+.20		½%	
Remainder of County	8.35	.18	1%		.02	
Elevator constructors	6.87	.17	.185	½%+a	.005	
Elevator constructors' helpers	4.81	.17	.185	½%+a	.005	
Elevator constructors' helpers (Prob.)	3.435					
Glaziers	7.74	.42	.30	d	.01	
Ironworkers: Structural, Ornamental, and Reinforcing	7.70	.45	.80+.50		.02	
Laborers, Building:						
Laborers, carpenters' tenders, cement finisher tenders, mason tenders	6.50	.40	.40		.05	
Jackhammer, paving breaker, chain saw, pipelayers, mechanical grinder, all other pneumatic tools, barco type jumping tampers	6.75	.40	.40		.05	
Plasterers' tenders	6.30	.40	.15		.05	
Powdermen blasters	7.25	.40	.40		.05	
Laborers, Wrecking:						
Laborers, signalmen	6.50	.40	.40		.05	
Adzman, Burner, jackhammer	6.75	.40	.40		.05	

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RESIDENTIAL: CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	O
Lathers	$7.40	.45	.50		.01	
Lead burners	7.80	.30		c	.01	
Line Construction:						
Linemen	7.14	.20	1%	d		
Driver Groundman	5.58	.20	1%	d		
Groundmen	5.07	.20	1%	d		
Equipment operator	6.31	.20	1%	d		
Marble, Tile and Terrazzo workers: Exeter, N. Kingstown, Narragansett, (Including the Pier of Point Judith)	7.50	.25	.35			
Marble, Tile and Terrazzo helpers	7.23		.50			
Painters:						
Brush	6.95	.25	.25			
Structural steel	7.20	.25	.25			
Spray	7.95	.25	.25			
Plasterers, Exeter, Narragansett, N. Kingston	8.50	.20				
Plasterers (Westerly, Hopkington, S. Kingston, Charlestown, Richmond, Wakefield and Peace Dale)	4.775	.15	.20			
Plumbers	8.55	.35	.35			
Roofers:						
Composition, waterproofers	7.85	.20	.25			
Slate, tile, precast concrete	8.05	.20	.25			
Helpers, Class "A"	7.00	.20	.25			
Helpers, Class "B"	6.45	.20	.25			
Sheet metal workers	8.43	.36	.35		.02	
Sprinkler fitters	9.07	.30	.50		.01	
Steamfitters	8.82	.35	.80		.03	
Truck Drivers: Building						
Two-axle; dumps	5.31	.30	.50			
Three-axle; trailers	5.39	.30	.50			
Low-bed trailers (24 tons & over), Trailers (I-Beam), specialized earth moving equipment (Euclid type)	5.64	.30	.50			
Euclid type equipment over 35 ton capacity	5.89	.30	.50			
Welders - receive rate prescribed for craft performing operation to which welding is incidental.						

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:
a. Holidays: A through F; employer contributes 4% basic hourly rate for 5 years or more of service or 2% basic hourly rate for 6 months to 5 years of service as Vacation Pay Credit.

FOOTNOTES (Cont'd):

b. Holidays: A through F, Washington's Birthday, Good Friday and Christmas Eve providing employee has worked 45 full days during the 120 calendar days prior to the holiday, and the regular scheduled work days immediately preceding and following the holiday.

c. Holidays: A through F; Bunker Hill Day, provided employee has been employed 10 working days prior to the holiday and provided employee works the scheduled work day immediately preceding and following the holiday.

d. Paid Holiday: "D".

RESIDENTIAL CONSTRUCTION POWER EQUIPMENT OPERATORS	Basic Hourly Rates	Fringe Benefits Payments			
		H & W	Pensions	Vacation	App. Tr.
Digging Machines, cranes, pile drivers, lighters, locomotives, derricks, hoists pavers, and front-end loaders 3 yds. and over	$9.35	.40	.40		.05
Economobile type equipment	9.10	.40	.40		.05
Fork lift	8.85	.40	.40		.05
Firemen and Oilers	7.45	.40	.40		.05
Bulldozers, graders, spreaders, tractors, scrapers, rollers and front-end loaders less than 3 yds.	8.00	.40	.40		.05
Pippin type backhoes	8.30	.40	.40		.05
Maintenance Engineers	7.90	.40	.40		.05
Well-point Installation	8.05	.40	.40		.05
Gas or electric driven pumps, heater, concrete mixers, stone crushers, air compressors, welding machines and generators for light plants	8.20	.40	.40		.05

MODIFICATIONS PAGE 1

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-471 - Mod. #1						
(38 FR 6534 - March 9, 1973)						
Fairfield County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers	$8.965	.42	.28			
Carpenters, soft floor layers: (Building Only):						
Bridgeport-Easton-Fairfield-Monroe-Stratford-Trumbull	8.45	.50	.30	f		
Shelton	8.25	.50	.30	j		
Carpenters-Piledrivermen: (Heavy and Highway Only)	8.65	.45	.30	h	.03	
Millwrights:						
Norwalk	8.65	.50	.30	f	g	
Painters:						
Remainder of County:						
Brush	7.00	.35	.55	e		
Structural steel	8.00	.35	.55	e		
Piledrivermen: (Building Only):						
Bridgeport-Easton-Fairfield-Monroe-Stratford-Trumbull	8.45	.50	.30	f		
Shelton	8.25	.50	.30	j		
See Power Equipment Operators Schedule Heavy & Highway Construction						
See Modifications Pages 5 and 6						
DECISION #AP-472 - Mod. #1						
(38 FR 7174 - March 16, 1973)						
Hartford County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers:						
Remainder of County	8.965	.42	.28			
Carpenters and Piledrivermen, (Heavy and Highway Only)	8.60	.50	.30	h	.03	
Carpenters, Soft floor layers, Piledrivermen (Building Only):						
Bristol-Plainville-Canton-Berlin-E. Berlin-Kingston-Newington-New Britain-Milldale-Marion-Plantsville-Bloomfield	8.47	.50	.30		.05	
Marlborough (Only)	8.47	.40	.30		.05	
Remainder of County	8.48	.50	.30		.05	

MODIFICATIONS PAGE 2

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-472 (cont'd)						
Change:						
Electricians:						
Hartland	$8.80	.45	1%+.20		1/8of1%	
Painters:						
Remainder of County:						
Brush	7.65	.50	.30			
Spray	11.10	.50	.30			
See Power Equipment Operators Schedule Heavy & Highway Construction						
See Modifications Pages 5 and 6						
DECISION #AP-473 - Mod. #1						
(38 FR 7177 - March 16, 1973)						
Litchfield County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers:						
Remainder of County	8.965	.42	.28			
Carpenters and Piledrivermen (Heavy and Highway):						
West of Housatonic River	8.60	.50	.30	h	.03	
East of Housatonic River	8.60	.50	.30	h	.03	
Electricians:						
Remainder of County	8.80	.45	1%+.20		1/8of1%	
See Power Equipment Operators Schedule Heavy & Highway Construction						
See Modifications Pages 5 and 6						
DECISION #AP-474 - Mod. #1						
(38 FR 7181 - March 16, 1973)						
Middlesex County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers	8.965	.42	.28			
Carpenters, Soft floor layers (Building Only)	8.47	.40	.30		.05	
Carpenters and Piledrivermen (Heavy and Highway Only)	8.60	.50	.30	f	.03	
See Power Equipment Operators Schedule Heavy & Highway Construction						
See Modifications Pages 5 and 6						

MODIFICATIONS PAGE 3

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-475 - Mod. #1						
(38 FR 7184 - March 16, 1973)						
New London County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers:						
Remainder of County	$8.965	.42	.28			
Carpenters and Piledrivermen (Heavy and Highway Only)	8.60	.50	.30	f	.03	
Carpenters, Soft floor layers, Piledrivermen (Building Only):						
Township of Stonington	8.15	.35	.35			
See Power Equipment Operators Schedule Heavy and Highway Construction						
See Modifications Pages 5 and 6						
DECISION #AP-476 - Mod. #1						
(38 FR 7187 - March 16, 1973)						
New Haven County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers	8.965	.42	.28			
Carpenters, Soft floor layers, Piledrivermen (Building Only):						
Ansonia-Seymour-Derby-Orange-Oxford	8.25	.50	.30	k		
Milford	8.45	.50	.30	g		
Carpenters, Piledrivermen (Heavy and Highway Only)	8.60	.50	.30	a	.03	
Electricians:						
Beacon Falls-Middlebury-Naugatuck-Oxford-Prospect-Seymour-Southbury-Waterbury-Wolcott	8.80	.45	1¼.20		1/8of1%	
Painters:						
Brush:						
Milford (Remainder of Township)	7.00	.35	.55	f		
Structural Steel:						
Milford	8.00	.35	.55	f		
See Power Equipment Operators Schedule Heavy & Highway Construction						
See Modifications Pages 5 and 6						

MODIFICATIONS PAGE 4

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-477 - Mod. #1						
(38 FR 6528 - March 9, 1973)						
Tolland County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers:						
Remainder of County	$8.965	.42	.28			
Carpenters and Piledrivermen (Heavy and Highway)	8.60	.50	.30	e	.03	
Carpenters, Soft floor layers and Piledrivermen (Building Only):						
Bolton	8.48	.50	.30		.05	
Remainder of County	8.50	.35	.30			
Painters:						
Brush:						
Ellington-Hebron-Rockville-Somers-Vernon	7.65	.50	.30			
Spray:						
Ellington-Hebron-Rockville-Somers-Vernon	11.10	.50	.30			
See Power Equipment Operators Schedule Heavy and Highway Construction						
See Modifications Pages 5 and 6						
DECISION #AP-478 - Mod. #1						
(38 FR 6531 - March 9, 1973)						
Windham County, Connecticut						
Change:						
Building, Heavy and Highway Construction:						
Asbestos workers:						
Ashford-Chaplin-Eastford-Hampton-Scotland-Windham	8.965	.42	.28			
Carpenters and Piledrivermen (Heavy and Highway	8.60	.50	.30	f	.03	
Carpenters, Soft floor layers, Piledrivermen, Millwrights, (Building Only)	8.50	.35	.30			
Painters:						
Willimatic:						
Brush	7.65	.50	.30			
Spray	11.10	.50	.30			
See Power Equipment Operators Schedule Heavy and Highway Construction						
See Modifications pages 5 and 6						

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SW-CONN-2-3-V (1 of 2)

POWER EQUIPMENT OPERATORS HEAVY AND HIGHWAY CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments			
		H & W	Pensions	Vacation	App. Tr.
Erecting and handling structural steel, front end loader (7 yds. or over)	$8.70	.30	.25 + a	b	.05
Piledriver, crane shovel, dragline, gradall, trenching machine, lighter derrick, paver (concrete), derrick (stiff leg and guy), steel pile sheeting, kohering loader (skooper)	8.60	.30	.25 +a	b	.05
Drill(Joy heavy weight champion or equivalent) side boom, loader (Euclid) mucking machine, pumpcrete, rock and earth boring machine post and well digger compressor (battery operated), hammer (vibratory), central mix operator, combination hoe & loader (over ¾ yd.)	8.35	.30	.25 +a	b	.05
Asphalt spreader	8.20	.30	.25 +a	b	.05
Front end loader (3yds. or over), grader power stone spreader, combination hoe and loader	8.10	.30	.25 +a	b	.05
Asphalt roller, bulldozer, carryall, maintenance engineer	7.95	.30	.25 +a	b	.05
Front end loader (under 3 yds.), roller power chipper fork lift, finishing machine, asphalt plant, power pavement breaker, dinky machine	7.80	.30	.25 +a	b	.05
Compressor, pump opr.	7.62	.30	.25 +a	b	.05
Fireman, high pressure	7.70	.30	.25 +a	b	.05
Well point system	7.80	.30	.25 +a	b	.05
Compressor battery operator	8.35	.30	.25 +a	b	.05
Oiler	7.35	.30	.25 +a	b	.05
Batch plant, bulk cement plant, oiler	7.35	.30	.25 +a	b	.05

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SW-CONN-2-3-V (2 of 2)

POWER EQUIPMENT OPERATORS HEAVY AND HIGHWAY CONSTRUCTION	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Ot
Crane with 150 ft. boom - additional $.25 per hour						
Crane with 200 ft. boom - additional $.50 per hour						

PAID HOLIDAYS(Where applicable):
A-New Year's Day; B-Memorial Day;
C-Independence Day; D-Labor Day;
E-Thanksgiving Day; F-Christmas Day

FOOTNOTE:

a. Employer contributes $.15 per hour to Supplemental Unemployment Fund.

b. Seven (7) paid holidays: A thru F and Good Friday.

	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-148 - Mod. #2 (38 FR 1457 - January 12, 1973) Chatham County, Georgia						
Change:						
Boilermakers	7.13	.40	.70		.01	
Painters:						
Brush	5.45					
Roller	5.70					
Steel, brush	5.95					
Tapers	5.70					
Stage work & window jackwork	5.95					
Paperhangers	5.70					
Paint burners	5.70					
Spray painting and sandblasting	6.20					
Piledrivermen	6.45	.35				
DECISION #AP-149 - Mod. #3 (38 FR 1453 - January 12, 1973) Fulton, Cobb & DeKalb Counties, Georgia						
Change:						
Building Construction						
Elevator Constructors	$7.81	.345	.23	2%+a+b	.015	
" " Helpers	5.47	.345	.23	2%+a+b	.015	
" " " (prob.)	3.905					
Ironworkers:						
Structural, ornamental and reinforcing	7.20	.40	.37		.05	

	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
DECISION #AP-24 - Mod. #2 (37 FR 21243 - October 6, 1972) Champaign County, Illinois						
Change:						
Asbestos Workers	$8.75	.20	.20		.02	
Bricklayers & Stonemasons	7.625	.30			.02	
Cement Masons	7.665	.30			.025	
Elevator Constructors	7.58	.345	.23	2%+a&b	.005	
Elevator Constructors' Helpers	5.17	.345	.23	2%+a&b	.005	
Elevator Constructors' Helpers (Prob.)	50%JR					
Lathers	7.72	.30	.20		.01	
Marble Masons	7.625	.175				
Marble Masons' Helpers	6.925					
Terrazzo Workers	7.625	.175				
Terrazzo Workers' Helpers	6.925					
Tile Layers	7.625	.175				
Tile Layers' Helpers	6.925					
DECISION #AP-616 - Mod. #2 (38 FR 2585 - February 2, 1973) Rock Island County, Illinois						
Change:						
Ironworkers, Structural, Ornamental, & Reinforcing	8.30	.40	.375		.05	
Millwrights	7.55	d	d		2%	
Sheet Metal Workers	7.40	.25	.20		.02	
Add:						
Footnote:						
d. Employer contributes 12% to Health & Welfare & Pension.						
DECISION #AP-617 - Mod. #3 (38 FR 2590 - January 26, 1973) Madison County, Illinois						
Change:						
Laborers - Building Construction						
Marine:						
Common Laborer	7.50		.20		.035	
Work in sewer trenches (final grading)	7.75		.20		.035	

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	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-617 - Mod. #3 (Contd)						
Mason tender, plasterer tender	$8.00		.20		.035	
Laborers - Heavy Construction						
Madison: Marine; Bond; Calhoun; Clinton (New Baden & Vic.)						
Common Laborers	7.50		.20		.035	
All Brick & Plaster Mason Tenders	8.00		.20		.035	
Workmen cutting & burning w/a Torch	7.75		.20		.035	
Men working on the bottom of sewer trenches, etc.	7.75		.20		.035	
Dynamite Men	9.10		.20		.035	
Greene County:						
Common Laborers	7.40		.30		.035	
All Brick & Plaster Mason Tenders	7.90		.30		.035	
Workmen cutting & burning w/a torch	7.65		.30		.035	
Men working on the bottom of sewer trenches, etc.	7.65		.30		.035	
Dynamite Men	9.00		.30		.035	
DECISION #AP-618 - Mod. #2 (38 FR 2563 - January 26, 1973) Madison County, Illinois)						
Change:						
Boilermakers	$8.35	.40	.95		.01	
Boilermakers' helpers	8.10	.40	.95		.01	
Electricians: Alton & Vicinity	8.44	.25	1%		.2%	
Laborers:						
Marine:						
Common Laborer	7.50		.20		.035	
Work in sewer trenches (final grading)	7.75		.20		.035	
Mason tender, plasterer	8.00		.20		.035	
DECISION #AP-619 - Mod. #3 (38 FR 3255 - February 2, 1973) St. Clair County, Illinois						
Change:						
Laborers - Building Construction						
New Athens & Vicinity						
Laborers	6.75	.25	.20		.035	
Asphalt rakers	6.90	.25	.20		.035	

MODIFICATIONS PAGE 10

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
DECISION #AP-619 - Mod. #3 (Contd)						
Plumber helpers, workmen while cutting & burning with a torch & men working on the bottom of sewer trenches on the final, etc.	$7.00	.25	.20		.035	
Mason & Plaster Tenders	7.15	.25	.20		.035	
Dynamite Men	8.30	.25	.20		.035	
Laborers - Heavy Construction						
Madison: Marine; Bond; Calhoun; Clinton (New Baden & Vic.)						
Common Laborers	7.50		.20		.035	
All Brick & Plaster Mason Tenders	8.00		.20		.035	
Workmen cutting & burning w/a torch	7.75		.20		.035	
Men working on the bottom of sewer trenches, etc.	7.75		.20		.035	
Dynamite Men	9.10		.20		.035	
Greene County:						
Common Laborers	7.40		.30		.035	
All Brick & Plaster Mason Tenders	7.90		.30		.035	
Workmen cutting & burning w/a torch	7.65		.30		.035	
Men working on the bottom of sewer trenches, etc.	7.65		.30		.035	
Dynamite Men	9.00		.30		.035	
DECISION #AP-620 - Mod. #1 (38 FR 3237 - February 2, 1973) St. Clair County, Illinois						
Change:						
Boilermakers	$8.35	.40	.95		.01	
Boilermakers' helpers	8.10	.40	.95		.01	
Laborers						
New Athens & Vicinity						
Laborers	6.75	.25	.20		.035	
Asphalt rakers	6.90	.25	.20		.035	
Plumbers helpers, workmen while cutting & burning with a torch & men working on the bottom of sewer trenches on the final, etc.	7.00	.25	.20		.035	
Mason & Plaster Tenders	7.15	.25	.20		.035	
Dynamite Men	8.30	.25	.20		.035	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
DECISION #AP-604 - Mod. #2 (38 FR 2575 - January 26, 1973) Winnebago County, Illinois						
Change:						
Power Equipment Operators (Bldg.)						
Class I	$9.55	.40	.50	.20	.02	
Class II	8.30	.40	.50	.20	.02	
Class III	7.30	.40	.50	.20	.02	
Class IV	6.15	.40	.50	.20	.02	
Power Equipment Operators (Heavy)						
Class I	9.15	.40	.50	.20	.02	
Class II	8.65	.40	.50	.20	.02	
Class III	8.05	.40	.50	.20	.02	
Class IV	7.10	.40	.50	.20	.02	
Class V	6.10	.40	.50	.20	.02	
DECISION #AP-492 - Mod. #1 (38 FR 6538 - March 9, 1973) Montgomery and Prince Georges Counties Maryland; City of Alexandria, Virginia; Arlington and Fairfax Counties, Virginia and Dulles International Airport						
Change:						
Ironworkers:						
Structural, ornamental & chain link fence	$8.35	.47	.45		.02	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
DECISION #AP-456 - Mod. #4 (38 FR 2051 - January 19, 1973) Barnstable County, Massachusetts						
Change:						
Millwrights	$8.40	.30	.30		.02	
Piledrivermen	8.85	.30	.30			
DECISION #AP-457 - Mod. #3 (38 FR 2054 - January 19, 1973) Essex County, Massachusetts						
Change:						
Piledrivermen	8.85	.30	.30			
Add:						
Millwrights	9.03	.30	.30		.02	
DECISION #AP-458 - Mod. #2 (38 FR 2058 - January 19, 1973) Hampden County, Massachusetts						
Change:						
Piledrivermen, wharf & dock builders	8.85	.30	.30			
Omit:						
Millwrights:						
Holyoke	7.95	.25	.30			
Remainder of County	8.00	.30	.30		.02	
Add:						
Millwrights	8.80	.30	.30		.02	
DECISION #AP-459 - Mod. #2 (38 FR 2062 - January 19, 1973) Middlesex County, Massachusetts						
Change:						
Cement masons:						
Bedford	8.60	.55				
Millwrights	9.03	.30	.30		.02	
Piledrivermen	8.85	.30	.30			
Plasterers:						
Bedford	8.60	.55				

DECISION #AP-460 - Mod. #2
(38 FR 2065 - January 19, 1973)
Suffolk County, Massachusetts

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Change:						
Millwrights	$9.03	.30	.30		.02	
Piledrivermen	8.85	.30	.30			

DECISION #AP-461 - Mod. #3
(38 FR 2070 - January 19, 1973)
Worcester County, Massachusetts

Change:						
Carpenters; Soft floor layers:						
Fitchburg, Harvard, & Leominster	8.35	.50	.50		.02	
Piledrivermen	8.85	.30	.30			
Omit:						
Millwrights:						
Fitchburg, Harvard, & Leominster	8.50	.30	.30		.01	
Grafton, Holden, Lancaster, Leicester, Millbury, North Grafton, Shrewsbury, Southbridge, Whitinsville, & Worcester	8.30	.40	.30		.01	
Westboro	8.25	.50	.30		.07	
Add:						
Millwrights	9.03	.30	.30		.02	

DECISION #AP-487 - Mod. #1
(37 FR 6608 - March 9, 1973
Bronx, Kings, Queens and Richmond Counties, New York

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Change:						
Building, Heavy and Highway Construction:						
Laborers:						
Cement concrete workers	$6.85	.7025	.7025			
Tile setters' helpers	6.96	.40	.27			

DECISION #AP-277 - Mod. #1
(38 FR 7692 - March 23, 1973)
Multnomah County, Oregon

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Change:						
Laborers:						
Laborers	$5.60	.45	.50	.25	.02	
Mortar mixers	5.75	.45	.50	.25	.02	
Power Equipment Operators:						
Asphalt roller	6.96	.45	.60	.25		
Blade, finish	7.34	.45	.60	.25		
Loader, less than 4 cu. yds.	7.66	.45	.60	.25		

DECISION #AP-479 - Mod. #2
(38 FR 5765 - March 2, 1973)
Mercer County, Pennsylvania

Change:						
Building Construction:						
Piledrivermen	$8.95	5%	6%		.50%of1%	
Heavy and Highway:						
Under Laborers Classification:						
Reinforcing steel placers (bending, aligning and securing)	6.55	.30	.30			

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
DECISION #AM-8610 - Mod. #5						
(37 FR 10322 - May 19, 1972)						
Anderson and Roane Counties, Tennessee						
Change:						
Asbestos workers	$7.60	.25	.15		.03	
Carpenters and Soft floor layers	6.18		.20		.02	
Electricians (Oak Ridge in Anderson and Roane Counties)						
Electricians	7.21	.25	1%		.5%	
Cable splicers	7.71	.25	1%		.5%	
Ironworkers:						
Structural & ornamental	6.525	.125	.10		.02	
Reinforcing	6.415	.125	.10		.02	
Fence erector	6.525	.125	.10		.02	
Millwrights	6.63		.20		.02	
Piledrivermen	6.43		.20		.02	
Plasterers	6.85					
DECISION #AP-139 - Mod. #2						
(37 FR 25640 - December 1, 1972)						
Hamilton County, Tennessee						
Change:						
Electricians, Linemen	7.65	.35	1%		[illegible] of 1%	
Cable splicer	7.90	.35	1%		[illegible] of 1%	
Sheet metal workers	7.90	.30	.30		.02	
DECISION #AP-491 - Mod. #1						
(38 FR 6651 - March 9, 1973)						
Washington, D. C.						
Change:						
Ironworkers:						
Structural, ornamental & chain link fence	$8.35	.47	.45		.02	

SUPERSEDEAS DECISION

STATE: CALIFORNIA

COUNTIES: Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, Eldorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Plumas, Placer, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo and Yuba

DECISION NUMBER: AP-287

DATE: Date of Publication

Supersedes Decision No. AP-235 dated September 15, 1972, in 37 FR 18837

DESCRIPTION OF WORK: Building Construction, (excluding single family homes and garden type apartments up to and including 4 stories), heavy and highway construction and dredging.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ASBESTOS WORKERS	$9.17	.60	.40	.90	.04	
BOILERMAKERS	7.45	.60	1.00	.50	.02	
BRICKLAYERS; Stonemasons:						
Del Norte, Humboldt, Lake, Marin, Mendocino, Napa, San Francisco, San Mateo, Siskiyou, Solano, Sonoma, and Trinity Counties	8.68	.83	.58	.70		
Alameda and Contra Costa Counties	8.50	.65	.60	.70		
Fresno, Kings, Madera, Mariposa and Merced Counties	7.73	.42	.50			
Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter, Tehama, Yolo and Yuba Counties	8.90	.40	.40			
Monterey and Santa Cruz Counties	7.71	.73	.55			
San Benito and Santa Clara Counties	8.50	.85	.65	.75	.01	
Amador, Alpine, Calaveras, San Joaquin, Stanislaus and Tuolumne Cos.	7.92	.33	.15	1.00		
Tulare County	7.80	.40	.40	.30	.05	
BRICK TENDERS:						
Alameda and Contra Costa Counties	7.20	.50	.70		.10	
Fresno, Kings and Madera Counties	6.05	.50	.60			
Marin County	6.60	.60	.40	.65		
Napa County	6.74	.50	.60	.60		
San Benito and Santa Clara Counties	6.58	.45	.40			
Lassen, Modoc, Shasta, Siskiyou, Tehama and Trinity Counties	5.75	.55	1.05	.70		
Stanislaus and Tuolumne Counties	5.80	.55	1.05	.70		
San Francisco and San Mateo Counties	7.45	.25	.40	.60		
CARPENTERS:						
Carpenters	8.10	.60	.55	.75	.02	
Hardwood floor layers; Power saw op.; Saw filers; Shinglers; Steel scaffold erectors and/or steel shoring erectors	8.25	.60	.55	.75	.02	
Millwrights	8.50	.60	.55	.75	.02	
Piledrivermen; Bridge, Wharf & dock builders	8.23	.60	.55	.75	.02	
CEMENT MASONS:						
Cement masons	7.13	.36	.75	.75		
Mastic; Magnesite; All comp. masons Men working from swinging or slip	7.38	.36	.75	.75		
DRYWALL INSTALLERS	$8.37	.60	.55	.75	.04	
ELECTRICIANS:						
Alameda County						
Electricians	8.85	.50	4%			
Cable splicers	9.99	.50	4%			
Tunnel:						
Electricians	8.85	.50	4%			
Cable splicers	9.99	.50	4%			
Amador, Colusa, Sacramento, Sutter, Yolo, Yuba and those portions of Alpine, Eldorado, Nevada, Placer and Sierra Counties West of the Main Sierra Mountain Watersbed						
Electricians	8.63	.41	1%+.65		.045	
Cable splicers	9.49	.41	1%+.65		.045	
Tunnel:						
Electricians	8.96	.31	1%+.55		.045	
Cable splicers	9.86	.31	1%+.55		.045	
Lake Tahoe Area:						
Electricians	9.24	.53	1%+.25		.02	
Cable splicers	10.12	.53	1%+.25		.02	
Butte, Glenn, Lassen, Plumas, Shasta, Tehama and Trinity Counties						
Electricians	8.57	.42	1%+.30		.005	
Cable splicers	9.43	.42	1%+.30		.005	
Tunnel:						
Electricians; Cable splicers' helpers	9.00	.42	1%+.30		.005	
Cable splicers	9.90	.42	1%+.30		.005	
Calaveras and San Joaquin Counties						
Electricians; Technicians	9.00	.49	1%		.01	
Cable splicers	10.13	.49	1%		.01	
Contra Costa County						
Electricians	9.10	.60	1%+.50		.02	
Cable splicers	10.20	.60	1%+.50		.02	
Tunnel:						
Electricians	8.80	.40	1%+.50		.02	
Cable splicers	9.90	.40	1%+.50		.02	
Del Norte and Humboldt Counties						
Electricians	8.15	.35	1%+.35		.01	
Cable splicers	8.80	.35	1%+.35		.01	
Tunnel:						
Electricians	8.97	.35	1%+.35		.01	
Cable splicers	9.78	.35	1%+.35		.01	
Fresno, Kings, Madera and Tulare Cos.						
Electricians	8.96	.50	1%+.50		.05	
Cable splicers	9.36	.50	1%+.50		.05	
Lake, Marin, Mendocino and Sonoma Cos.						
Electricians	7.10	.23	1%+.10		.02	
Cable splicers	7.92	.23	1%+.10		.02	
Mariposa, Merced, Stanislaus and Tuolumne Counties						
Electricians	8.69	.27	1%		.01	
Cable splicers	9.56	.27	1%		.01	

ELECTRICIANS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Modoc and Siskiyou Counties						
Electricians	$8.00	.25	1%		.04	
Cable splicers	8.55	.25	1%		.04	
Monterey County						
Electricians	9.75	.45	1%		.01	
Cable splicers	10.70	.45	1%		.01	
Napa and Solano Counties						
Electricians	8.92	.58	1%+.25		.02	
Cable splicers	9.42	.58	1%+.25		.02	
San Benito and Santa Clara Counties						
Electricians	9.03	.64	1%+.35		.02	
Cable splicers	10.16	.64	1%+.35		.02	
Tunnel or shaft:						
Electricians	8.59	.38	1%			
Cable splicers	9.66	.38	1%			
San Francisco County						
Electricians	9.32	.705	1%+.35		.04	
Cable splicers	10.485	.705	1%+.35		.04	
San Mateo County						
Electricians	8.88	.43	1%+. 15		.03	
Santa Cruz County						
Electricians; Technicians	9.23	.20	1%		.02	
Cable splicers	10.38	.20	1%		.02	
ELEVATOR CONSTRUCTORS	9.48	.345	.23	2%+a	.015	
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.345	.23	2%+a	.015	
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
GLAZIERS:						
Alpine, Amador, Butte, Calaveras, El Dorado, Mariposa, Modoc, Nevada, Placer, Sacramento, San Joaquin, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Tuolumne, Yolo, Yuba and Merced (North of the city of Livingston) Counties	7.77	.25	.55	8%	.01	
Alameda, Contra Costa, Lake, Marin, Mendocino (Southern half of County from North of Ft. Bragg), Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano (SW from E. of Fairfield), Sonoma Counties	8.455	.35	.55	.24	.01	
Merced (Remainder of County), Fresno, Kings, Madera and Tulare Counties	7.25	.35	.55	.61	.05	
IRONWORKERS:						
Fence erectors	8.24	.58	.625	.70	.02	
Ornamental; Structural	8.38	.58	.625	.70	.02	
Reinforcing	8.34	.58	.625	.70	.02	
LATHERS:						
Alameda and Contra Costa Counties	7.84	.34	.385		.025	
Butte, Colusa, Glenn, Humboldt, Lake (That portion of county from Lakeport up to county line), Nevada, Placer, Plumas, Shasta, Sierra, Tehama and Trinity Counties	7.68	.43	.40		.01	

LATHERS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Calaveras and San Joaquin Counties	$7.20	.25	.20	.80		
Lake (from city of Lakeport down to county line), Marin, Mendocino and Sonoma Counties	6.71	.37	.45	.91	1/8%	
Monterey and Santa Cruz Counties	7.10	.40	.40	.20	.01	
Napa and Solano Counties	6.83	.60	.40	1.00	.01	
San Francisco County	8.23	.46	.65	1.00	.01	
San Benito and Santa Clara Counties	7.73	.30	.25			
LINE CONSTRUCTION:						
Alameda County						
Groundmen	6.575	.50	4%			
Linemen	8.85	.50	4%			
Cable splicers	9.99	.50	4%			
Amador, Colusa, Sacramento, Sutter, Yolo, Yuba, and those portions of Alpine, El Dorado, Nevada, Placer, and Sierra Counties excluding Lake Tahoe Area						
Line Equipment Operators	6.19	.31	1%+.55		.045	
Linemen	6.88	.31	1%+.55		.045	
Cable splicers	7.57	.31	1%+.55		.045	
Remaining portions of Alpine, El Dorado, Nevada, Placer and Sierra Counties (Lake Tahoe Area)						
Groundmen	6.59	.33	1%+.25		.01	
Line equipment operator	7.91	.33	1%+.25		.01	
Linemen	8.79	.33	1%+.25		.01	
Cable splicers	9.67	.33	1%+.25		.01	
Contra Costa County						
Groundmen	6.83	.60	1%+.50		.02	
Line equipment operator	8.19	.60	1%+.50		.02	
Linemen	9.10	.60	1%+.50		.02	
Cable splicers	10.20	.60	1%+.50		.02	
Fresno, Kings, Madera & Tulare Cos.						
Line equipment operators	8.96	.50	1%+.50		.05	
Linemen	8.96	.50	1%+.50		.05	
Cable splicers	9.36	.50	1%+.50		.05	
Mariposa, Merced, Stanislaus & Tuolumne Counties						
Linemen	8.69	.27	1%		.01	
Cable splicers	9.56	.27	1%		.01	
Modoc & Siskiyou Counties						
Cable splicers; Leadman pole sprayer	8.60	.25	1%		1/2%	
Lineman; Pole sprayer; Heavy line equipment man	7.76	.25	1%		1/2%	
Tree trimmer	7.00	.25	1%		1/2%	
Line equipment man	6.67	.25	1%		1/2%	

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LINE CONSTRUCTION (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Modoc & Siskiyou Counties						
Head groundman (chipper); Head groundman; Powderman; Jackhammer man	$5.82	.25	1%		1/2%	
Groundman; Tree trimmer helper	5.49	.25	1%		1/2%	
Hole digger	5.25	.25	1%		1/2%	
Monterey County						
Groundmen	7.32	.45	1%		.01	
Equipment operators; Linemen	9.76	.45	1%		.01	
Cable splicers	10.78	.45	1%		.01	
Napa and Solano Counties						
Groundmen	6.69	.58	1%+.25		.02	
Line equipment operators	8.02	.58	1%+.25		.02	
Linemen	8.92	.58	1%+.25		.02	
Cable splicers	9.42	.58	1%+.25		.02	
San Francisco County						
Groundmen	6.78	.395	1%+.35		.04	
Linemen	7.975	.395	1%+.35		.04	
Cable splicers	8.97	.395	1%+.35		.04	
San Mateo County						
Line equipment men	6.58	.27	1%+.15		.01	
Linemen	7.31	.27	1%+.15		.01	
Cable splicers	8.22	.27	1%+.15		.01	
Santa Cruz						
Groundmen	8.09	.20	1%		.02	
Cable splicers	10.38	.20	1%		.02	
Linemen	9.23	.20	1%		.02	
MARBLE SETTERS	7.59	.69	.51	.53		
PAINTERS:						
Butte, Colusa, Glenn, Lassen(except extreme S.E. corner), Modoc, Plumas, Shasta, Siskiyou, Sutter, Tehama, Trinity and Yuba Counties						
Brush; Roller	5.40	.35	.25	1.05		
Spray; Sandblast; Structural steel; Swingstages; Tapers	5.65	.35	.25	1.05		
Alpine, Amador, Calaveras, and San Joaquin Counties						
Brush	6.62	.50	.55	.80		
Spray; Sheetrock taper; Swingstage; Scaffold; Sandblaster; Structural steel	6.92	.50	.55	.80		
Fresno, Kings, Madera, Tulare Cos.						
Brush; Tapers	7.32	.40	.20			
Spray	7.57	.40	.20			
Structural steel	7.57	.40	.20			

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PAINTERS: (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Alameda, Contra Costa, Eldorado, Lake Marin, Mendocino, Monterey, Napa, Nevada, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Sierra, Solano, Sonoma and Yolo Counties (Excluding portions of Counties in the Lake Tahoe Area):						
Brush	$7.77	.64	.65	.80		
Spray	8.02	.64	.65	.80		
Tapers	8.27	.64	.65	.80		
Del Norte, Humboldt Counties						
Brush	6.40	.35	.20			
Paperhangers; Spray; Steel; Tapers	6.65	.35	.20			
Mariposa, Merced, Stanislaus and Tuolumne Counties						
Brush	6.30	.35		.75		
Paperhangers; Spray; Tapers	6.55	.35		.75		
Lake Tahoe Area						
Brush	8.10	.30	.20			
Spray; Structural steel; Tapers	8.35	.30	.20			
PAINTERS:						
Parking Lot Striping Work and/or Highway Markers:						
Fresno and Tulare Counties:						
Traffic delineating device applicator	5.01	.20	.20	b		
Wheel stop installer; Traffic surface sandblaster; Striper; Traffic surface protective coating applicator	4.88	.20	.20	b		
Helper, Traffic surface sandblaster; Wheel stop installer, traffic surface protective coating applicator, striper)	4.38	.20	.20	b		
Remaining Counties						
Traffic delineating device applicator; Traffic surface protective coating applicator; Wheel stop installer; Traffic surface sandblaster	5.27	.35	.20	b		
Helper (Traffic surface sandblaster; Wheel stop installer, protective coating applicator)	4.77	.35	.20	b		
Striper	6.37	.35	.20	b		
Helper (Striper)	5.37	.35	.20	b		

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
PLASTERERS:						
Alameda & Contra Costa Counties	$8.24	.575	.45		.01	
Butte, Colusa, Glenn, Lassen (south eastern half of Lassen Co.), Plumas, Sierra, Sutter, and Yuba Counties	6.05	.25	.25	.50	.01	
Fresno, Kings, Madera and Tulare Cos.	7.19	.56	.40		.01	
Monterey County	8.03	.46	.35		.01	
El Dorado, Nevada, Placer, Sacramento and Yolo Counties	7.65	.245	.25	.65		
San Benito and Santa Clara Counties	7.63	.59	.50	.80	.01	
San Francisco County	7.12	.48	.85	1.50	.02	
San Mateo County	7.45	.43	.55	1.17		
Del Norte, Humboldt, Lassen (north western half of Lassen Co.), Marin, Modoc, Napa, Shasta, Siskiyou, Solano, Sonoma, Tehama and Trinity Counties	7.15	.53	.25	1.00	.01	
Mariposa, Merced, Stanislaus, and Tuolumne Counties	6.30	.65	.60	1.00		
PLASTERERS' TENDERS:						
Alameda & Contra Costa Counties	7.97	.50	.80		.10	
Fresno, Kings, & Madera Counties	5.55	.55	1.05	.70		
Marin County	6.30	.60	.40	1.00		
Napa County	6.65	.55		.80		
Alpine, Amador, El Dorado, Nevada, Placer, Sacramento, Sierra, and Yolo Counties	6.45	.395	1.05	.70		
San Francisco and San Mateo Counties	7.50	.25	.40	.95		
San Benito and Santa Clara Counties	7.75	.60	.55			
Lassen, Modoc, Shasta, Siskiyou, Tehama, and Trinity Counties	5.75	.55	1.05	.70		
Stanislaus and Tuolumne Counties	5.95	.55	1.05	.70		
PLUMBERS:						
Alameda County	9.88	.65	1.00		.10	
Contra Costa County	10.02	.53	1.00		.16	
PLUMBERS; Steamfitters						
Del Norte & Humboldt Counties	7.60	.48	1.06	1.00	.05	
Amador (northern half of County), Sacramento, Yolo, El Dorado, Nevada, Placer, and Sierra Counties (excluding Lake Tahoe Area)	8.98	.75	1.05		.11	
Lake Tahoe Area	7.85	.30	.60	1.55	.07	
Marin, Mendocino, San Francisco, and Sonoma Counties	8.30	1.44	.705	.735	.065	
San Benito and Santa Clara Counties	8.81	.61	.95	.72	.10	
San Mateo County	9.075	.485	.50		.075	
Alpine, Amador (southern portion of County), Butte, Calaveras, Colusa, Fresno, Glenn, Kings, Lassen, Madera, Mariposa, Merced, Modoc, Monterey, Plumas, San Joaquin, Santa Cruz, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, and Yuba Counties	8.39	.77	.79		.03	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
PLUMBERS; Steamfitters (cont'd)						
Lake, Napa and Solano Counties	$9.40	.60	.58		.07	
ROOFERS:						
Alameda and Contra Costa Counties						
Roofers	7.55	.48	.75	.30	.01	
Mastic workers; Kettlemen (2 kettles w/o pumps)	7.80	.48	.75	.30	.01	
Bitumastic; Enamelers; Pipewrapper; Coal tar built up	8.55	.48	.75	.30	.01	
Alpine, Calaveras, Mariposa, Merced, San Joaquin, Stanislaus, and Tuolumne Counties						
Roofers (slate, tile composition and built up)	6.94	.50	.30	.75		
Felt machine operator	7.19	.50	.30	.75		
Butte, Colusa, Eldorado, Glenn, Lassen, Modoc, Placer, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba Counties						
Roofers	7.54	.50	.40			
Fresno, Kings, Madera, and Tulare Cos.						
Roofers	7.70	.50	.50			
Lake, Mendocino, and Sonoma Counties						
Roofers	7.09	.50	.70	.78	.01	
Kettlemen (2 kettles w/o pumps)	7.34	.50	.70	.78	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar pitch built up	8.09	.50	.70	.78	.01	
Marin County						
Roofers	6.77	.45	.70	1.15	.01	
Mastic workers; Kettlemen (2 kettles without pumps)	7.02	.45	.70	1.15	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar	7.77	.45	.70	1.15	.01	
Monterey County						
Roofers	6.80	.30	.50	1.00		
San Francisco and San Mateo Counties						
Roofers	7.00	.50	.70	.85	.01	
Mastic workers and kettlemen (2 kettles) without pumps	7.25	.50	.70	.85	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar	8.00	.50	.70	.85	.01	
Napa and Solano Counties						
Roofers	6.70	.25	.50	.50		
Amador, Sacramento and Yolo Counties						
Roofers (slate, tile and composition)	6.67	.48	.40			
Enameler and pitch	7.42	.48	.40			
Felt machine operator, spudding machine operator, all types	6.92	.48	.40			
San Benito and Santa Clara Counties						
Roofers; Kettlemen (1 kettle)	7.11	.46	.63	1.00		
SHEET METAL WORKERS:						
Alameda & Contra Costa Counties	7.25	.39	.505	10%c	.015	

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SHEET METAL WORKERS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
Alpine, Calaveras, & San Joaquin Cos.	$6.375	.36	.50	1.00		
Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Nevada, Placer, Plumas Sacramento, Shasta, Sierra, Sutter, Tehama, Yolo and Yuba Counties	7.76	.46	1.00	12%	.07	
Del Norte, Humboldt, & Trimity Cos.	8.18	.38	.83			
Fresno, Kings, Madera, & Tulare Cos.	8.20	.48	.79		.07	
Lake, Marin, Mendocino, Napa, Sonoma, and Solano Counties	8.55	.36	.44		.15	
Mariposa, Merced, Stanislaus, & Tuolumne Counties	8.83	.36	.60		.03	
Monterey, San Benito, Santa Clara, and Santa Cruz Counties	8.10	.38	.81	10%		
San Francisco County	8.48	.38	.55		10%	
San Mateo County	8.35	.38	.62		2%	
SOFT FLOOR LAYERS:						
Alameda, Contra Costa, Napa and Solano Counties	7.50	.36	.30	.29d	.05	
Alpine, Amador, Butte, Calaveras, Colusa, Glenn, Lassen (excluding Honey Lake Area), Merced (east of the San Joaquin River), Plumas, San Joaquin, Shasta, Sacramento, Stanislaus, Sutter, Tehama, Trinity, Tuolumne, Yolo, and Yuba Counties, & those portions of El Dorado, Nevada, Placer and Sierra Counties (excluding Lake Tahoe Area	7.455	.495	.45	1.00	.07	
Honey Lake Area & Lake Tahoe Area	8.35	.30	.20			
Fresno, Kings, Madera, Tulare Cos.	8.80	.20				
Lake, Marin, Mendocino, San Francisco San Mateo, and Sonoma Counties	7.60	.50	.55	e	.04	
Monterey, San Benito, Santa Clara and Santa Cruz Counties	7.39	.35	.30	.89	.05	
SPRINKLER FITTERS:						
Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties	10.71	.30	.50		.02	
SPRINKLER FITTERS:						
Remaining Counties	11.30	.30	.50		.05	
STEAMFITTERS:						
Alameda and Contra Costa Counties	9.415	.30	.65		.005	

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TERRAZZO WORKERS:	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
Alameda, Contra Costa, Del Norte, Humboldt, Lake, Marin, Mendocino, Napa, San Francisco, San Mateo						
Siskiyou, Solano, Sonoma, Trinity Cos.	$7.89	.83	.58	1.00		
Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter,						
Tehama, Yolo and Yuba Counties	8.90	.40	.40			
Fresno, Kings, Madera and Tulare Cos.	7.12	.30				
TILE SETTERS:						
Alameda, Contra Costa, Del Norte, Humboldt, Lake, Marin, Mendocino, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Siskiyou,						
Solano, Sonoma, Trinity, Counties	7.25	.56	.60	.80	.015	
Alpine, Amador, Calaveras, San Joaquin Counties	7.17	.33		.65		
Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter,						
Tehama, Yolo and Yuba Counties	7.25	.56	.35	.80	.015	
Fresno, Kings, Madera and Tulare Cos.	7.12	.30				
Monterey and Santa Cruz Counties	8.02	.67	.635			

RIGGERS; WELDERS: Receive rate prescribed for craft performing operation to which rigging or welding is incidental.

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:

a. Employer contributes 4% of basic hourly rate for over 5 years' service and 2% of basic hourly rate for 6 months to 5 years as Vacation Pay Credit. 6 Paid Holidays: A through F.

b. Employer contributes $.17 per hour to Holiday Fund plus $.10 per hour to Vacation in 1st year's service, $.20 per hour after 1 year's service but less than 5 years' service, $.30 per hour after 5 years' service but less than 10 years' service, and $.40 per hour after 10 years' service.

c. Four paid holidays: C, D, E, and Washington's Birthday.

d. 1st year employment employer contributes $.14 per hour to Vacation; 2nd thru 5th year $.30 per hour; 6th year and thereafter $.46 per hour.

e. Employer contributes $.75 1st 5 years; $.90 after 5 years to Vacation and Holiday Fund.

LABORERS	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
BRIDGE; Brush loaders & piler; Cleanup; Dumpman; General; Landscape; Limbers; Tool room attendant	$5.435	.55	1.05	.70	.06	
ASPHALT SHOVELERS; Cement dumper; Chipper; Choker setter & rigger; Chucktender; Concrete; Guinea Chaser; High pressure nozzleman; Hydraulic monitor; Nipper; Pneumatic, gas and electric tool op.(not otherwise classified);Sloper; Loading, unloading, handling materials for reinforcing concrete construction	5.535	.55	1.05	.70	.06	
ASPHALT IRONERS & RAKERS; Bucker; Buggymobile; Chainsaw; Compactors; Concrete saw & pan work; Cribber and or shoring; Curb setter; Form raiser; Faller; Headerboard man; Post hole digger (air, gas, or electric); Jackhammer; Kettlemen; Log loader; Magnesite & mastic workers; Pavement breaker; Pipelayers; Pipewrappers; Power broom sweeper; Riprap stonepaver & rockslinger; Rotary scarifier; Rototiller; Sandblaster; Barko, wackers & similar type tampers; Tank cleaners; Tree climber; Vibrator; Vibra-screed bull float	5.685	.55	1.05	.70	.06	
BURNING AND WELDING	5.735	.55	1.05	.70	.06	
PIPELAYERS; Caulkers; Banders (Contra Costa County Only)	5.885	.55	1.05	.70	.06	
BLASTERS; Drills (Diamond or Wagon); High scaler; Powderman; Tree topper	5.91	.55	1.05	.70	.06	
LABORERS on general construction work on or in bell hole footings & shaft	6.235	.55	1.05	.70	.06	
GUNITE LABORERS:						
NOZZLEMEN; Rodmen; Gunmen; Groundman	6.145	.55	1.05	.70	.06	
REBOUNDMEN	5.555	.55	1.05	.70	.06	

POWER EQUIPMENT OPERATORS		Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
GROUP I							
ASSISTANTS TO ENGINEERS (Brakeman; Fireman; Heavy duty repairman helper; Oiler; Deckhand; Signalman; Switchman; Tar pot fireman); Partsman (Heavy duty repair shop parts room)	AREA 1	$6.71	.65	1.00	.60	.24	
	AREA 2	7.84	.65	1.00	.60	.24	
GROUP II							
COMPRESSOR OPERATOR; Concrete mixer (up to & incl. 1 yd.); Conveyor belt op. (tunnel); Fireman hot plant; Hydraulic monitor; Mechanical conveyor (handling building materials); Mixer box operator (concrete plant); Pump operator; Spreader boxman (with screeds); Tar pot fireman (power agitated)	AREA 1	6.99	.65	1.00	.60	.24	
	AREA 2	8.12	.65	1.00	.60	.24	
GROUP III							
BOX OPERATOR (bunker); Locomotive; Motorman; Oiler; Rodman or chainman; Ross carrier(construction job site); Rotomist operator; Screedman (except asphaltic concrete paving); Self-propelled, automatically applied concrete curing machine (on streets, highways, airports and canals); Trenching machine (maximum digging capacity 3 ft. depth); Tugger hoist, single drum	AREA 1	7.16	.65	1.00	.60	.24	
	AREA 2	8.29	.65	1.00	.60	.24	
GROUP IV							
BALLAST JACK TAMPER; Ballast regulator; ballast tamper multi-purpose; boxman (asphalt plant); Fork lift or lumber stacker (construction job site); Line Master; Lubrication & service engineer (mobile and grease rack); Material hoist (1 drum); Shuttlecar; Tie spacer Towermobile	AREA 1	7.62	.65	1.00	.60	.24	
	AREA 2	8.75	.65	1.00	.60	.24	
GROUP V							
COMPRESSOR OPERATOR (2 to 7); Concrete mixers (over 1 yd.); Concrete pumps or pumpcrete guns; Generators (100 K.W. or over); Press-weld (air-operated); Pumps (2 to 7); Welding machines (gasoline or diesel) (2 to 7)	AREA 1	7.79	.65	1.00	.60	.24	
	AREA 2	8.92	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments				
			H & W	Pensions	Vacation	App. Tr.	Others
GROUP VI							
BLH LIMA ROAD PACTOR or similar; Boom truck or dual purpose A-frame truck; Concrete batch plants (wet or dry); Concrete saws (self-propelled unit) on streets, highways, airports, and canals; Drilling and boring machinery, vertical & horizontal (not to apply to waterliners, wagon drills or jack-hammers); Gradesetter, grade checker (mechanical or otherwise); Highline cableway signalman; Locomotives (steam or over 30 tons) Maginnis internal full slab vibrator (on airports, highways, canals & warehouses); Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt; Portable crushers; Power jumbo operator (setting slip forms, etc. in tunnels); Roller; Screedman (Barber-Greene & similar) (asphaltic concrete paving); Self-propelled compactor (single engine); Self-propelled pipeline wrapping machine (persult, CRC, or similar types); Slip forms pumps (lifting device for concrete forms); Small rubber tired tractors; Surface heater	AREA 1	$7.90	.65	1.00	.60	.24	
	AREA 2	9.03	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments				
			H & W	Pensions	Vacation	App. Tr.	Others
GROUP VII							
CONCRETE CONVEYOR OR CONCRETE PUMP, Truck or equipment mounted (boom length to apply); Concrete conveyor, building site; Deck engineers; Dual drum mixer; Fuller Kenyon pump and similar types; Instrument man; Material hoist (2 or more drums); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar; Mine or shaft hoist; Mixer-mobile; Pavement breaker with or without compressor combination; Pavement breaker, Truck mounted with compressor combination; Pipe bending machine (pipe lines only); Pipe cleaning machine (tractor propelled & supported); Pipe wrapping machine (tractor propelled and supported); Refrigeration plant; Self-propelled boom type lifting device; Self-propelled elevating grade plane; Slusher operator; Small tractor (with boom); Soil tester; Truck type loader	AREA 1	$8.04	.65	1.00	.60	.24	
	AREA 2	9.17	.65	1.00	.60	.24	
GROUP VIII							
ARMOR-COATER (or similar); Asphalt plant engineer; Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete batch plant (multiple units); Dozer; Heavy duty repairman and/or welders; Ken seal machine (or similar); Kolman loader; Loader (up to 2 yds.); Mechanical shield operator (or similar); Mechanical trench shield; Portable crushing & screening plants; Push cat; Rubber tired earth moving equipment (up to & incl. 45 cu. yds. "struck" m.r.c., euclids, T-pulls, IM-10,20,21 and similar); Tractor drawn scraper; Self-propelled compactor with dozer; Sheepfoot; Tractor; Trenching machine; Tri-batch paver; Tunnel mole boring machine operator; Welder; Woods-mixer (and other similar pugmill equipment)	AREA 1	8.36	.65	1.00	.60	.24	
	AREA 2	9.49	.65	1.00	.60	.24	

POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
GROUP IX							
CANAL FINGER DRAIN DIGGER; Chicago boom; Combination mixer & compressor (gunite); Combination Slurry mixer and/or cleaner; Highline cableway (5 tons & under); Lull hi-lift or similar (20 ft. or over); Mucking machine; Tractor (with boom) (D-6 or larger and similar)	AREA 1	$8.54	.65	1.00	.60	.24	
	AREA 2	9.67	.65	1.00	.60	.24	
GROUP X							
BOOM-TYPE BACKFILLING MACHINE; Bridge crane; Cary-lift (or similar); Chemical grouting machine; Chief of party; Combination backhoe & loader (up to and incl. 1/2 cu. yd. m.r.c.); Derricks (2 operators required when swing engine remote from hoist); Derrick barges (except excavation work); Do-more loader & Adams elegreder; Elevating grader op.; Rubber tired scraper, self-loading (paddle wheels, etc.); Heavy duty rotary drills rigs (incl. caisson foundation work & Robbins type drills); Koehring Skooper (or similar); Lift slab machine (Vagtborg & similar types); Loader (2 yds. up to & incl. 4 yds.); Locomotive (over 100 tons) (single or multiple units); Multiple engine earth-moving machine (euclids, dozers, etc.) (no tandem scraper); Prestress wire wrapping machine; Shuttle car (reclaim station); Soil stabilizer (P & H or equal); Subgrader (gurries or other automatic type); Track laying type-Earth moving machine (single engine with tandem scrapers); Tractor, compressor drill combination; Train loading station; Vacuum cooling plant; Single engine scraper over 45 yds.; Whirley crane (up to & incl. 25 tons)	AREA 1	8.70	.65	1.00	.60	.24	
	AREA 2	9.83	.65	1.00	.60	.24	

POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
GROUP X - A							
BACKHOE (hydraulic) (up to and incl. 1 cu. yd. m.r.c.); Backhoe (cable) (up to and incl. 1 cu. yd. m.r.c.); Combination backhoe and loader over 1/2 cu. yd. m.r.c.); Continuous flight tie back Auger (up to and incl. 1 cu. yd.) (crane attached); Cranes (not over 25 tons, hammerhead & gantry); Grade all (up to and incl. 1 cu. yd.); Power shovels, Clamshells, Draglines, (up to and incl. 1 cu. yd. m.r.c.); Power blade; Self-propelled boom-type lifting device (center mount) (over 10 tons); Self-propelled boom-type lifting device (center mounted) (over 15 tons)	AREA 1	$8.79	.65	1.00	.60	.24	
	AREA 2	9.92	.65	1.00	.60	.24	
GROUP XI							
AUTOMATIC CONCRETE SLIP FORM PAVER; Automatic railroad car dumper; Canal finger drain backfiller; Canal trimmer; Canal trimmer w/ditching attachments; Cranes (over 25 tons up to and incl. 125 tons); Continuous flight tie back Auger over 1 cu. yd. (incl. crane); Drott travelift 650-A-1 or similar (45 tons or over); Rubber tired earth moving machines (multiple propulsion power units & two or more scrapers) (up to & incl. 75 cu. yds. "struck" m.r.c.); Highline cableway (over 5 tons); Loader (over 4 yds. up to & incl. 12 cu. yds.); Power blades operator (multi-engine); Power shovels, Clamshells, Draglines, Backhoes, Gradalls, (over 1 yd. up to & incl. 7 cu. yds. m.r.c.); Self-propelled compactor (with multiple propulsion power units); Slip form paver (concrete to asphalt); Tandem cats; Tower cranes mobile; Trencher (pulling attached shield); Tower cranes mobile; Single engine rubber tired earth moving machine (with tandem scrapers); Universal Liebher and Tower cranes (and similar types); Wheel excavator (up to & incl. 750 cu yds. per hour); Whirley cranes (over 25 tons)	AREA 1	8.94	.65	1.00	.60	.24	
	AREA 2	10.07	.65	1.00	.60	.24	

POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments				
			H & W	Pensions	Vacation	App. Tr.	Others
GROUP XI - A							
LOADER (over 12 cu. yds. up to & incl. 18 cu. yds.); Rubber tired multi-purpose earth moving machine (2 units) (over 75 cu. yds. "struck" m.r.c.); Power shovels & draglines (over 7 cu. yds. m.r.c.); Sand wagons (in conjunction with wheel excavator) Wheel excavator (over 750 yds. per hour); Cranes (over 125 tons)	AREA 1	$9.82	.65	1.00	.60	.24	
	AREA 2	10.95	.65	1.00	.60	.24	
GROUP XI - B							
LOADER (over 18 cu. yds.)	AREA 1	10.04	.65	1.00	.60	.24	
	AREA 2	11.17	.65	1.00	.60	.24	
GROUP XI - C							
OPERATOR OF HELICOPTER (when used in erection work); Remote controlled earth moving equipment	AREA 1	10.27	.65	1.00	.60	.24	
	AREA 2	11.40	.65	1.00	.60	.24	

PILEDRIVING	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP I						
ASSISTANT TO ENGINEER (Fireman, Oiler, Deckhand)	$6.77	.65	1.00	.60	.24	
GROUP Ia						
COMPRESSOR OPERATOR	7.04	.65	1.00	.60	.24	
GROUP Ib						
TRUCK CRANE OILER	7.16	.65	1.00	.60	.24	
GROUP IIa						
TUGGER HOIST (Hoisting material only)	7.68	.65	1.00	.60	.24	
GROUP IIb						
COMPRESSOR OPERATOR (2-7); Generator (100 k.w. or over); Pump (2-7); Welding machine (2-7) powered other than by electricity)	7.85	.65	1.00	.60	.24	
GROUP III						
DECK ENGINEER; Fork lift; A-frame; Self-propelled boom-type lifting device	8.10	.65	1.00	.60	.24	
GROUP IIIa						
HEAVY DUTY REPAIRMAN AND/OR WELDER	8.41	.65	1.00	.60	.24	
GROUP IV						
OPERATING ENGINEER IN LIEU OF ASSISTANT TO ENGINEER TENDING BOILER OR COMPRESSOR ATTACHED TO CRANE PILEDRIVER; Operator of piledriving rigs, skid or floating and derrick barges; Operator of diesel or gasoline powered crane piledriver (w/o boiler) up to & incl. 1 cu. yd.; Truck crane (up to & incl. 25 tons hoisting material only)	8.87	.65	1.00	.60	.24	
GROUP V						
OPERATOR OF DIESEL OR GASOLINE POWERED CRANE PILEDRIVER WITHOUT BOILER, OVER 1 cu. yd.; Operator of crane (w/steam, flash boiler, pump or compressor attached); Operator of steam powered crawler, or Universal type driver (Raymond or similar type); Truck crane (over 25 tons hoisting material or performing piledriving work)	8.99	.65	1.00	.60	.24	

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	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
HYDRAULIC SUCTION DREDGES						
BARGEMEN; Deckhand; Fireman; Leveehand; Oiler	$6.71	.65	1.00	.60	.19	
WINCHMAN (stern winch on dredge)	7.30	.65	1.00	.60	.19	
DECKMATE	7.40	.65	1.00	.60	.19	
WATCH ENGINEER; Welder	7.95	.65	1.00	.60	.19	
LEVERMAN	8.64	.65	1.00	.60	.19	
CLAMSHELL & DIPPER DREDGES						
DECKHAND; Fireman; Oiler	6.71	.65	1.00	.60	.19	
DECK ENGINEER	8.04	.65	1.00	.60	.19	
WELDER; Mechanic welder	8.36	.65	1.00	.60	.19	
CLAMSHELL OP. (up to & incl. 7 cu. yds. m.v.c.)(long boom pay)	8.94	.65	1.00	.60	.19	
CLAMSHELL OP. (over 7 cu. yds. m.v.c) (long boom pay)	9.82	.65	1.00	.60	.19	

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TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
BULK CEMENT SPREADER (w/wo auger, under 4 yds. water level); Bus or manhaul driver; Concrete pump machine; Concrete pump truck(when flat rack truck is used appropriate flat rack rate shall apply); Dump (under 4 yds. water level); Dumpcrete truck (under 4 yds. water level); Dumpster (under 4 yds. water level); Escort or pilot car driver; Nipper truck (when flat rack truck is used appropriate flat rack rate shall apply); Pickups; Skids (debris box, under 4 yds. water level); Team drivers; Trucks (dry pre-batch concrete mix, under 4 yds. water level); Vacuum truck helpers; Warehousemen	$6.075	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 4 yds. and under 6 yds. water level); Dump (4 yds. & under 6 yds. water level); Dumpcrete (4 yds. & under 6 yds. water level); Dumpster (4 yds. & under 6 yds. water level); Skids (debris box, 4 yds. & under 6 yds. water level); Single unit flat rack (2 axle unit-industrial lift, mechanical tailgate); Trucks (dry pre-batch concrete mix, 4 yds. & under 6 yds. water level)	6.17	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (under 2,500 gals)	6.185	.765	.50	.75		
LIFT JITNEYS, Fork lift	6.205	.765	.50	.75		
TRANSIT MIX, AGITATOR (under 6 yds.)	6.225	.765	.50	.75		
TRUCK REPAIRMAN HELPER	6.245	.765	.50	.75		
VACUUM TRUCK (under 3,500 gals)	6.255	.765	.50	.75		
SCISSOR TRUCK; Single unit flat rack (3 axle unit-industrial lift truck, mechanical tailgate); Small rubber tired tractor (when used within teamsters' jurisdiction)	6.27	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (2,500 gals under 4,000 gals)	6.285	.765	.50	.75		
COMBINATION WINCH TRUCK WITH HOIST; Transit mix, agitator (6 yds.& under 8 yds.)	6.325	.765	.50	.75		

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TRUCK DRIVERS CONT'D	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
VACUUM TRUCK (3,500 gals & under 5,500 gals)	6.335	.765	.50	.75		
RUBBER-TIRED MUCK CAR (not self-loaded)	6.345	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 6 yds. & under 8 yds. water level); Dump (6 yds. & under 8 yds. water level); Dumpcrete (6 yds. & under 8 yds. water level); Dumpster (6 yds. & under 8 yds. water level); Skids (debris box, 6 yds. & under 8 yds. water level); Trucks (dry pre-batch concrete mix, 6 yds. & under 8 yds. water level)	6.37	.765	.50	.75		
A-FRAME, WINCH TRUCKS; Buggymobile: Hydro-lift, Swedish crane type (jetting) Jetting & water truck (4,000 gals & under 5,000 gals); Rubber tired jumbo	6.385	.765	.50	.75		
HEAVY DUTY TRANSPORT (high bed)	6.39	.765	.50	.75		
ROSS HYSTER & SIMILAR STRADDLE CARRIER	6.415	.765	.50	.75		
TRANSIT MIX AGITATOR (8 yds. through 10 yds.)	6.425	.765	.50	.75		
VACUUM TRUCK (5,000 gals & under 7,500 gals)	6.435	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (5,000 gals & under 7,000 gals)	6.485	.765	.50	.75		
TRANSIT MIX AGITATOR (over 10 yds. through 12 yds.)	6.525	.765	.50	.75		
HEAVY DUTY TRANSPORT (gooseneck lowbed)	6.62	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 8 yds. & incl. 12 yds. water level); Dump (8 yds. & incl. 12 yds. water level);Dumpcrete (8 yds. & incl. 12 yds. water level); Self-propelled street sweeper with self-contained refuse bin; Skids (debris box, 8 yds. & incl. 12 yds. water level); Snow go and/or snow plow; Truck (dry pre-batch concrete mix, 8 yds & incl. 12 yds. water level); Dumpster (8 yds. & incl. 12 yds. water level)	6.61	.765	.50	.75		

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TRUCK DRIVERS CONT'D	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
TRANSIT MIX AGITATOR (over 12 yds. through 14 yds.)	6.625	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 12 yds. & incl. 18 yds. water level); Dump (over 12 yds. & incl. 18 yds.water level); Dumpcrete (over 12 yds. & incl. 18 yds. water level); Dumpster (over 12 yds. & incl. 18 yds. water level); Skids (debris box, over 12 yds. & incl. 18 yds. water level); Trucks (dry pre-batch concrete mix, over 12 yds. & incl. 18 yds. water level)	6.65	.765	.50	.75		
P. B. OR SIMILAR TYPE SELF-LOADING TRUCK	6.71	.765	.50	.75		
TRUCK REPAIRMAN	6.745	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 18 yds. & incl. 24 yds. water level); Combination dump & dump trailer; Dump (over 18 yds. & incl. 24 yds. water level); Dumpcrete (over 18 yds. & incl. 24 yds. water level); Dumpster (over 18 yds. & incl. 24 yds. water level); Skid (debris box, over 18 yds. & incl. 24 yds. water level); Transit mix agitator (over 14 yds. through 16 yds.); Trucks (dry pre-batch concrete mix, over 17 yds. & incl. 24 yds. water level)	6.735	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 24 yds. & incl. 35 yds. water level); Dump (over 24 yds. & incl. 35. yds. water level); Dumpcrete (over 24 yds. & incl. 35 yds. water level); Dumpster (over 24 yds. & incl. 35 yds. water level); DW 10's, 20's, 21's & other similar cat type, Terra Cobra, LeTourneaupuls, Tournorocker, Euclid & similar type equipment when pulling Aqua/Pak or water tank trailers & fuel and/or grease tank trailers or other misc. trailers; Skids (debris box, over 24 yds. & incl. 35 yds. water level); Truck (dry pre-batch concrete mix, over 24 yds. & incl. 35 yds. water level)	6.81	.765	.50	.75		

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TRUCK DRIVERS CONT'D

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
BULK CEMENT SPREADER (w/wo auger, over 35 yds. & incl. 50 yds. water level); Dump (over 35 yds. & incl. 50 yds. water level); Dumpcrete (over 35 yds. & incl. 50 yds. water level); Dumpster (over 35 yds. & incl. 50 yds. water level); Skids (debris box, over 35 yds. & incl. 50 yds. water level); Trucks (dry pre-batch concrete mix, over 35 yds & incl. 50 yds. water level)	6.96	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 50 yds. & under 65 yds. water level); Dump (over 50 yds. & under 65 yds. water level); Dumpcrete (over 50 yds. & under 65 yds. water level); Dumpster (over 50 yds. & under 65 yds. water level); Helicopter pilot (when transporting men or materials); Skids (debris box, over 50 yds. & under 65 yds. water level); Trucks (dry pre-batch concrete mix, over 50 yds. & under 65 yds. water level)	7.11	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 65 yds. & incl. 80 yds. water level); Dump (65 yds. & incl. 80 yds. water level); Dumpcrete (65 yds. & incl. 80 yds. water level); Dumpster (65 yds. & incl. 80 yds. water level); Skids (debris box, 65 yds. & incl. 80 yds. water level); Trucks (dry pre-batch concrete mix, 65 yds. & incl. 80 yds. water level)	7.26	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 80 yds. & incl. 95 yds. water level); Dump (over 80 yds. & incl. 95 yds. water level); Dumpcrete (over 80 yds. & incl. 95 yds. water level); Dumpster (over 80 yds. & incl. 95 yds. water level); Skids (debris box, over 80 yds. & incl. 95 yds. water level); Trucks (dry pre-batch concrete mix, over 80 yds. & incl. 95 yds. water level)	7.41	.765	.50	.75		

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS

**AREA 2: All areas not included within Area 1 as defined below.

*AREA 1: All areas included in the description defined below which is based upon township and range lines of Areas 1 and 2.

Commencing in the Pacific Ocean on the extension of the Southerly line of Township 19S.
Thence Easterly along the Southerly line of Township 19S, crossing the Mt. Diablo meridian to the S.W. corner of township 19S, range 6E, Mt. Daiblo base line and meridian,
Thence Southerly to the S.W. corner of township 20S, range 6E,
Thence Easterly to the S.W. corner of township 20S, range 13E,
Thence Southerly to the S.W. corner of township 21S, range 13E,
Thence Easterly to the S.W. corner of township 21S, range 17E,
Thence Southerly to the S.W. corner of township 22S, range 17E,
Thence Easterly to the S.E. corner of township 22S, range 17E,
Thence Southerly to the S.W. corner of township 23S, range 18E,
Thence Easterly to the S.E. corner of township 23S, range 18E,
Thence Southerly to the S.W. corner of township 24S, range 19E, falling on the Southerly line of Kings County, thence Easterly along the Southerly boundary of Kings County and the Southerly boundary of Tulare County, to the S.E. corner of township 24S, range 29E,
Thence Northerly to the N.E. corner of township 21S, range 29E,
Thence Westerly to the N.W. corner of township 21S, range 29E,
Thence Northerly to the N.E. corner of township 13S, range 28E,
Thence Westerly to the N.W. corner of township 13S, range 28E,
Thence Northerly to the N.E. corner of township 11S, range 27E,
Thence Westerly to the N.W. corner of township 11S, range 27E,
Thence Northerly to the N.E. corner of township 10S, range 26E,
Thence Westerly to the N.W. corner of township 10S, range 26E,
Thence Northerly to the N.E. corner of township 9S, range 25E,
Thence Westerly to the N.W. corner of township 9S, range 25E,
Thence Northerly to the N.E. corner of township 8S, range 24E,
Thence Westerly to the N.W. corner of township 8S, range 24E,
Thence Northerly to the N.E. corner of township 6S, range 23E,
Thence Westerly to the S.E. corner of township 5S, range 19E,
Thence Northerly to the N.E. corner of township 5S, range 19E,
Thence Westerly to the N.W. corner of township 5S, range 19E,
Thence Northerly to the N.E. corner of township 3S, range 18E,
Thence Westerly to the N.W. corner of township 3S, range 18E,
Thence Northerly to the N.E. corner of township 2S, range 17E,
Thence Westerly to the N.W. corner of township 2S, range 17E,
Thence Northerly crosing the Mt. Diablo baseline to the N.E. corner of township 2N, range 16E,
Thence Westerly to the N.W. corner of township 2N, range 16E,
Thence Northerly to the N.E. corner of township 3N, range 15E,
Thence Westerly to the N.W. corner of township 3N, range 15E,
Thence Northerly to the N.E. corner of township 4N, range 14E,

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd):
Thence Westerly to the N.W. corner of township 4N, range 14E,
Thence Northerly to the N.E. corner of township 5N, range 13E,
Thence Westerly to the N.W. corner of township 5N, range 13E,
Thence Northerly to the N.E. corner of township 10N, range 12E,
Thence Easterly to the S.E. corner of township 11N, range 14E,
Thence Northerly to the N.E. corner of township 11N, range 14E,
Thence Westerly to the N.E. corner of township 11N, range 10E,
Thence Northerly to the N.E. corner of township 15N, range 10E,
Thence Easterly to the S.E. cotner of township 16N, range 11E,
Thence Northerly to the N.E. corner of township 16N,range 11E,
Thence Easterly to the S.E. corner of township 17N, range 14E,
Thence Southerly to the S.W. corner of township 14N, range 15E,
Thence Easterly to the S.E. corner of township 14N, range 15E,
Thence Southerly to the S.W. corner of township 13N, range 16E,
Thence Easterly to the S.E. corner of township 13N, range 16E,
Thence Southerly to the S.W. corner of township 12N, range 17E,
Thence Easterly along the Southern line of township 12N to the Eastern boundary of the state of California,
Thence Northwesterly, thence Northerly along the Eastern boundary of the state of California to the N.E. corner of township 17N, range 18E,
Thence Westerly to the N.W. corner of township 17N, range 11E,
Thence Northerly to the N.E. corner of township 20N, range 10E,
Thence Westerly to the N.W. corner of township 20N, range 10E,
Thence Northerly to the N.E. corner of township 21N, range 9E,
Thence Westerly to the N.W. corner of township 21N, range 9E,
Thence Northerly to the N.E. corner of township 22N, range 8E,
Thence Westerly to the N.W. corner of township 22N, range 8E,
Thence Northerly to the S.W. corner of township 27N, range 8E,
Thence Easterly to the S.E. corner of township 27N, range 8E,
Thence Northerly to the N.E. corner of township 28N, range 8E,
Thence Westerly to the N.W. corner of township 28N, range 7E,
Thence Northerly to the N.E. corner ot township 30N, range 6E,
Thence Westerly to the N.W. corner of township 30N, range 1E,
Thence Northerly along the Mt. Diablo meridian to the N.E. corner of township 34N, range 1W,
Thence Westerly to the N.W. corner of township 34N, range 6W,
Thence Southerly to the N.E. corner of township 32N. range 7W,
Thence Westerly to the N.W. corner of township 32N, range 7W,
Thence Southerly to the S.W.corner of township 30N, range 7W,
Thence Easterly to the S.E. corner of township 30N, range 7W,
Thence Southerly to the S.W. corner of township 16N, range 6W,
Thence Easterly to the S.E. corner of township 16N, range 6W,
Thence Southerly to the S.W. corner of township 14N, range 5W,
Thence Westerly to the S.E. corner of township 14N, range 7W,
Thence Northerly to the N.E. corner of township 14N, range 7W,
Thence Westerly to the N.W. corner of township 14N, range 7W,
Thence Northerly to the N.E. corner of township 15N, range 8W,

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd)
Thence Westerly to the S.E. corner of township 16N, range 12W,
Thence Northerly to the N.E. corner of township 16N, range 12W,
Thence Westerly to the N.W. corner of township 16N, range 12W,
Thence Northerly to the N.E. corner of township 18N, range 13W,
Thence Westerly to the N.W. corner of township 18N, range 14W,
Thence Southerly to the S.W. corner of township 18N, range 14W,
Thence Easterly to the S.E. corner of township 18N, range 14W,
Thence Southerly to the S.W. corner of township 16N, range 13W,
Thence Westerly to the N.W. corner of township 15N, range 14W,
Thence Southerly to the S.W. corner of township 14N, range 14W,
Thence Easterly to the S.E. corner of township 14N, range 14W,
Thence Southerly to the S.W. corner of township 13N, range 13W,
Thence Easterly to the S.E. corner of township 13N, range 13W,
Thence Southerly to the S.W. corner of township 11N, range 12W,
Thence Easterly to the S.E. corner of township 11N, range 12W,
Thence Southerly along the Eastern line of range 12W to the Pacific Ocean excluding that portion of Northern California within Santa Clara County included within the following line:
Commencing at the N.W. corner of township 6S, range 3E, Mt. Diablo baseline and Meridian:
Thence in a Southerly direction to the S.W. corner of township 7S, range 3E,
Thence in a Easterly direction to the S.E. corner of township 7S, range 4E,
Thence in a Northerly direction to the N.E. corner of township 6S, range 4E,
Thence in a Westerly direction to the N.W. corner of township 6S, range 3E, to the point of beginning which portion is a part of Area 2.
Area 1 also includes that portion of Northern California within the following lines:
Commencing in the Pacific Ocean on an extension of the Southerly line of township 2N, Humboldt baseline and meridian:
Thence Easterly along the Southerly line of township 2N to the S.W. corner of township 2N, range 1W,
Thence Southerly to the S.W. corner of township 1N, range 1W,
Thence Easterly along the Humboldt baseline to the S.W. corner of township 1N, range 2E,
Thence Southerly to the S.W. corner of township 2S, range 2E,
Thence Easterly to the S.E corner of township 2S, range 2E,
Thence Southerly to the S.W. corner of township 4S, range 3E,
Thence Easterly to the S.E. corner of township 4S, range 3E,
Thence Northerly to the N.E. corner of township 2S, range 3E,
Thence Westerly to the N.W. corner of township 2S, range 3E,
Thence Northerly crossing the Humboldt baseline to the S.W. corner of township 1N, range 3E,
Thence Easterly along the Humboldt baseline to the S.E. corner of township 1N, range 3E,
Thence Northerly to the N.E. corner of township 9N, range 3E,
Thence Westerly to the N.W. corner of township 9N, range 2E,
Thence Northerly to the N.E. corner of township 10N, 1E,

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd)
Thence Westerly along the Northerly line to township 10N,
into the Pacific Ocean.
Area 1 also includes that portion of Northern California
included within the following line:
Commencing at the Northerly boundary of the state of
California at the N.W. corner of township 48N, range 7W,
Mt. Diablo baseline and meridian:
Thence Southerly to the S.W. corner of township 44N, range 7W,
Thence Easterly to the S.E. corner of township 44N, range 7W,
Thence Southerly to the S.W. corner of township 43N, range 6W,
Thence Easterly to the S. E. corner of township 43N, range 5W,
Thence Northerly to the N.E. corner of township 48N, range 5W,
on the Northerly boundary of the state of California,
Thence Westerly along the Northerly boundary of the state of
California to the point of beginning.

SUPERSEDEAS DECISION

STATE: CALIFORNIA

COUNTIES: Alameda, Amador, Contra Costa, Fresno, Marin, Merced, Monterey, Napa, Nevada, Placer, Sacramento, San Benito, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Solano, Sonoma, Sutter, Yolo and Yuba

DECISION NUMBER: AP-288

DATE: Date of Publication

Supersedes Decision No. AP-246 dated October 13, 1972 in 37 FR 21728

DESCRIPTION OF WORK: Residential Construction consisting of single family homes and garden type apartments up to and including 4 stories.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ASBESTOS WORKERS	$9.17	.60	.40	.90	.04	
BOILERMAKERS	7.45	.60	1.00	.50	.02	
BRICKLAYERS; Stonemasons:						
Marin, Napa, San Francisco, San Mateo, Solano and Sonoma Counties	8.68	.83	.58	.70		
Alameda and Contra Costa Counties	8.50	.65	.60	.70		
Fresno and Merced Counties	7.73	.42	.50			
Nevada, Placer, Sacramento, Shasta, Sutter, Yolo and Yuba Counties	8.90	.40	.40			
Monterey and Santa Cruz Counties	7.71	.73	.55			
San Benito and Santa Clara Counties	8.50	.85	.65	.75	.01	
Amador and San Joaquin Counties	7.92	.33	.15	1.00		
BRICK TENDERS:						
Alameda and Contra Costa Counties	7.20	.50	.70		.01	
Fresno County	6.05	.50	.60			
Marin County	6.60	.60	.40	.65		
Napa County	6.74	.50	.60	.60		
San Benito and Santa Clara Counties	6.58	.45	.40			
San Francisco and San Mateo Counties	7.45	.25	.40	.60		
CARPENTERS:						
Carpenters	8.10	.60	.55	.75	.02	
Hardwood floor layers; Power saw op.; Saw filers; Shinglers; Steel scaffold erectors and/or steel shoring erectors	8.25	.60	.55	.75	.02	
Millwrights	8.50	.60	.55	.75	.02	
Piledrivermen; Bridge, wharf and dock builders	8.23	.60	.55	.75	.02	
CEMENT MASONS:						
Cement masons	7.13	.56	.75	.75		
Mastic; Magnesite; All comp. masons	7.38	.56	.75	.75		
Men working from swinging or slip form scaffolds	7.38	.56	.75	.75		
DRYWALL INSTALLERS	8.37	.60	.55	.75	.04	
ELECTRICIANS:						
Alameda County						
Electricians	8.85	.50	4%			
Cable splicers	9.99	.50	4%			
Tunnel:						
Electricians	8.85	.50	4%			
Cable splicers	9.99	.50	4%			

ELECTRICIANS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Amador, Sacramento, Sutter, Yolo, Yuba and those portions of Nevada and Placer Counties West of the Main Sierra Mountain Watershed						
Electricians	8.63	.41	1%+.65		.045	
Cable splicers	9.49	.41	1%+.65		.045	
Tunnel:						
Electricians	8.96	.31	1%+.55		.045	
Cable splicers	9.86	.31	1%+.55		.045	
Lake Tahoe Area						
Electricians	9.24	.53	1%+.25		.02	
Cable splicers	10.12	.53	1%+.25		.02	
Shasta County						
Electricians	8.57	.42	1%+.30		.005	
Cable splicers	9.43	.42	1%+.30		.005	
Tunnel:						
Electricians; Cable splicers' helpers	9.00	.42	1%+.30		.005	
Cable splicers	9.90	.42	1%+.30		.005	
San Joaquin County						
Electricians; Technicians	9.00	.49	1%		.01	
Cable splicers	10.13	.49	1%		.01	
Contra Costa County						
Electricians	9.10	.60	1%+.50		.02	
Cable splicers	10.20	.60	1%+.50		.02	
Tunnel:						
Electricians	8.80	.40	1%+.50		.02	
Cable splicers	9.90	.40	1%+.50		.02	
Fresno County						
Electricians	8.96	.50	1%+.50		.05	
Cable splicers	9.36	.50	1%+.50		.05	
Marin, and Sonoma Counties						
Electricians	7.10	.23	1%+.10		.02	
Cable splicers	7.92	.23	1%+.10		.02	
Merced County						
Electricians	8.69	.27	1%		.01	
Cable splicers	9.56	.27	1%		.01	
Monterey County						
Electricians	9.75	.45	1%		.01	
Cable splicers	10.70	.45	1%		.01	
Napa and Solano Counties						
Electricians	8.92	.58	1%+.25		.02	
Cable splicers	9.42	.58	1%+.25		.02	
San Benito and Santa Clara Counties						
Electricians	9.03	.64	1%+.35		.02	
Cable splicers	10.16	.64	1%+.35		.02	
Tunnel or shaft:						
Electricians	8.59	.38	1%			
Cable splicers	9.66	.38	1%			
San Francisco County						
Electricians	9.32	.705	1%+.35		.04	
Cable splicers	10.485	.705	1%+.35		.04	
San Mateo County						
Electricians	8.88	.43	1%+.15		.03	

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ELECTRICIANS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
Santa Cruz County						
Electricians - Technicians	$9.23	.20	1%		.02	
Cable splicers	10.38	.20	1%		.02	
ELEVATOR CONSTRUCTORS	9.48	.345	.23	2%+a	.015	
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.345	.23	2%+a	.015	
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
GLAZIERS:						
Amador, Nevada, Placer, Sacramento, San Joaquin, Shasta, Sutter, Yolo, Yuba and Merced (North of the city of Livingston) Counties	7.77	.25	.55	8%	.01	
Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano (SW from E. of Fairfield), Sonoma Counties	8.455	.35	.55	.24	.01	
Merced (Remainder of County) and Fresno County	7.25	.35	.55	.61	.05	
IRONWORKERS:						
Fence erectors	8.24	.58	.625	.70	.02	
Ornamental; Structural	8.38	.58	.625	.70	.02	
Reinforcing	8.34	.58	.625	.70	.02	
LATHERS:						
Alameda and Contra Costa Counties	7.84	.34	.385		.025	
Nevada, Placer and Shasta Counties	7.68	.43	.40		.01	
San Joaquin County	7.20	.25	.20	.80		
Marin and Sonoma Counties	6.71	.37	.45	.91	1/8%	
Monterey and Santa Cruz Counties	7.10	.40	.40	.20	.01	
Napa and Solano Counties	6.83	.60	.40	1.00	.01	
San Francisco County	8.23	.46	.65	1.00	.01	
San Benito and Santa Clara Counties	7.73	.30	.25			
PAINTERS:						
Shasta, Sutter, and Yuba Counties:						
Brush; Roller	5.40	.35	.25	.105		
Spray; Sandblast; Structural steel; Swingstages; Tapers	5.65	.35	.25	.105		
Amador, and San Joaquin Counties:						
Brush	6.62	.50	.55	.80		
Spray; Sheetrock taper, Swingstage; Scaffold; Sandblaster; Structural steel	6.92	.50	.55	.80		
Fresno County						
Brush; Tapers	7.32	.40	.20			
Spray	7.57	.40	.20			
Structural Steel	7.57	.40	.20			

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PAINTERS: (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
Alameda, Contra Costa, Marin, Monterey, Napa, Nevada, Placer, Sacramento, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma and Yolo Counties (excluding portions of Counties in the Lake Tahoe Area):						
Brush	$7.77	.64	.65	.80		
Spray	8.02	.64	.65	.80		
Tapers	8.27	.64	.65	.80		
Merced County						
Brush	6.30	.35		.75		
Paperhangers; Spray; Tapers	6.55	.35		.75		
Lake Tahoe Area						
Brush	8.10	.30	.20			
Spray; Structural steel; Tapers	8.35	.30	.20			
PLASTERERS:						
Alameda and Contra Costa Counties	8.24	.575	.45		.01	
Sutter, and Yuba Counties	6.05	.25	.25	.50	.01	
Fresno County	7.19	.56	.40		.01	
Monterey County	8.03	.46	.35		.01	
Nevada, Placer, Sacramento and Yolo Counties	7.65	.245	.25	.65		
San Benito and Santa Clara Counties	7.63	.59	.50	.80	.01	
San Francisco County	7.12	.48	.85	1.50	.02	
San Mateo County	7.45	.43	.55	1.17		
Marin, Napa, Shasta, Solano, Sonoma Counties	7.15	.53	.25	1.00	.01	
Merced County	6.30	.65	.60	1.00		
PLASTERERS' TENDERS:						
Alameda and Contra Costa Counties	7.97	.50	.80		.10	
Fresno County	5.55	.55	1.05	.70		
Marin County	6.30	.60	.40	1.00		
Napa County	6.65	.55		.80		
Amador, Nevada, Placer, Sacramento, and Yolo Counties	6.45	.395	1.05	.70		
San Francisco and San Mateo Counties	7.50	.25	.40	.95		
San Benito and Santa Clara Counties	7.75	.60	.55			
Shasta County	5.75	.55	1.05	.70		
PLUMBERS:						
Alameda County	9.88	.65	1.00		.10	
Contra Costa County	10.02	.53	1.00		.16	
PLUMBERS; Steamfitters						
Amador (northern half of county Sacramento, Yolo, Nevada, Placer (excluding Lake Tahoe Area)	8.98	.75	1.05		.11	
Lake Tahoe Area	7.85	.30	.60	1.55	.07	
Marin, San Francisco, and Sonoma Cos.	8.30	1.44	.705	.735	.065	
San Benito and Santa Clara Counties	8.81	.61	.95	.72	.10	

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PLUMBERS; Steamfitters (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
San Mateo County	$9.075	.485	.50		.075	
Amador (southern portion of County), Fresno, Merced, Monterey, San Joaquin, Santa Cruz, Shasta, Sutter, and Yuba Counties	8.39	.77	.79		.03	
Napa and Solano Counties	9.40	.60	.58		.07	
ROOFERS:						
Alameda and Contra Costa Counties						
Roofers	7.55	.48	.75	.30	.01	
Mastic workers; Kettlemen (2 kettles w/o pumps)	7.80	.48	.75	.30	.01	
Bitumastic; Enamelers; Pipewrapper; coal tar built up	8.55	.48	.75	.30	.01	
Merced, San Joaquin Counties						
Roofers (slate, tile composition and built up)	6.94	.50	.30	.75		
Felt machine operator	7.19	.50	.30	.75		
Placer, Shasta, Sutter, and Yuba Cos.						
Roofers	7.54	.50	.40			
Fresno County						
Roofers	7.70	.50	.50			
Sonoma County						
Roofers	7.09	.50	.70	.78	.01	
Kettlemen (2 kettles w/o pumps)	7.34	.50	.70	.78	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar pitch built up	8.09	.50	.70	.78	.01	
Marin County						
Roofers	6.77	.45	.70	1.15	.01	
Mastic workers; Kettlemen (2 kettles without pumps)	7.02	.45	.70	1.15	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar	7.77	.45	.70	1.15	.01	
Monterey County						
Roofers	6.80	.30	.50	1.00		
San Francisco and San Mateo Counties						
Roofers	7.00	.50	.70	.85	.01	
Mastic workers & kettlemen (2 kettles without pumps	7.25	.50	.70	.85	.01	
Bitumastic; Enamelers; Pipewrappers; Coal tar	8.00	.50	.70	.85	.01	
Napa and Solano Counties						
Roofers	6.70	.25	.50	.50		
Amador, Sacramento and Yolo Counties						
Roofers (Slate, Tile & Composition)	6.67	.48	.40			
Enameler and Pitch	7.42	.48	.40			
Felt machine operator, spudding machine operator, all types	6.92	.48	.40			
San Benito and Santa Clara Counties						
Roofers; Kettlemen (1 kettle)	7.11	.46	.63	1.00		
SHEET METAL WORKERS:						
Alameda and Contra Costa Counties	7.25	.39	.505	10%c	.015	

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SHEET METAL WORKERS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
San Joaquin County	$6.375	.36	.50	1.00		
Amador, Nevada, Placer, Sacramento, Shasta, Sutter, Yolo and Yuba Cos.	7.76	.46	1.00	12%	.07	
Fresno County	8.20	.48	.79		.07	
Marin, Napa, Sonoma and Solano Cos.	8.55	.36	.44		.15	
Merced County	8.83	.36	.60		.03	
Monterey, San Benito, Santa Clara and Santa Cruz Counties	8.10	.38	.81	10%		
San Francisco County	8.48	.38	.55		10%	
San Mateo County	8.35	.38	.62		2%	
SOFT FLOOR LAYERS:						
Alameda, Contra Costa, Napa and Solano Counties	7.50	.36	.30	29d	.05	
Merced (east of the San Joaquin River) San Joaquin, Shasta, Sacramento, Amador Sutter, Yolo and Yuba Counties, and those portions of Nevada, Placer and (excluding Lake Tahoe Area)	7.455	.495	.45	1.00	.07	
Lake Tahoe Area	8.35	.30	.20			
Fresno County	8.80	.20				
Marin, San Francisco, San Mateo, and Sonoma Counties	7.60	.50	.55	e	.04	
Monterey, San Benito, Santa Clara and Santa Cruz Counties	7.39	.35	.30	.89	.05	
SPRINKLER FITTERS:						
Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties	10.71	.30	.50		.02	
SPRINKLER FITTERS:						
Remaining Counties	11.30	.30	.50		.05	
STEAMFITTERS:						
Alameda and Contra Costa Counties	9.415	.30	.65		.005	
TERRAZZO WORKERS:						
Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Solano, Sonoma Counties	7.89	.83	.58	1.00		
Nevada, Placer, Sacramento, Shasta, Sutter, Yolo, and Yuba Counties	8.90	.40	.40			
Fresno County	7.12	.30				
TILE SETTERS:						
Alameda, Contra Costa, Marin, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Solano and Sonoma Cos.	7.25	.56	.60	.80	.015	
Amador, San Joaquin Counties	7.17	.33		.65		

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TILE SETTERS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
Nevada, Placer, Sacramento, Shasta, Sutter, Yolo and Yuba Counties	$7.25	.36	.35	.80	.015	
Fresno County	7.12	.30				
Monterey and Santa Cruz Counties	8.02	.67	.635			
RIGGERS; WELDERS: Receive rate prescribed for craft performing operation to which rigging or welding is incidental.						

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:

a. Employer contributes 4% of basic hourly rate for over 5 years service and 2% of basic hourly rate for 6 months to 5 years as Vacation Pay Credit. 6 Paid Holidays: A through F.

b. Four Paid Holidays: C, D, E, and Washington's Birthday.

c. 1st year of employment employer contributes $.14 per hour to Vacation; 2nd year thru 5th year $.30 per hour; 6th year and thereafter $.46 per hour.

d. Employer contributes $.75 1st 5 years; $.90 after 5 years to Vacation and Holiday Fund.

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LABORERS	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	O
BRIDGE; Brush loaders & piler; Cleanup; Dumpman; General; Landscape; Limbers; Tool room attendant	$5.435	.55	1.05	.70	.06	
ASPHALT SHOVELERS; Cement dumper; Chipper; Choker setter & rigger; Chucktender; Concrete; Guinea Chaser; High pressure nozzleman; Hydraulic monitor; Nipper; Pneumatic, gas and electric tool op.(not otherwise classified);Sloper; Loading, unloading, handling materials for reinforcing concrete construction	5.535	.55	1.05	.70	.06	
ASPHALT IRONERS & RAKERS; Bucker; Buggymobile; Chainsaw; Compactors; Concrete saw & pan work; Cribber and or shoring; Curb setter; Form raiser; Faller; Headerboard man; Post hole digger (air, gas, or electric); Jackhammer; Kettlemen; Log loader; Magnesite & mastic workers; Pavement breaker; Pipelayers; Pipewrappers; Power broom sweeper; Riprap stonepaver & rockslinger; Rotary scarifier; Rototiller; Sandblaster; Barko, wackers & similar type tampers; Tank cleaners; Tree climber; Vibrator; Vibra-screed bull float	5.685	.55	1.05	.70	.06	
BURNING AND WELDING	5.735	.55	1.05	.70	.06	
PIPELAYERS; Caulkers; Banders (Contra Costa County Only)	5.885	.55	1.05	.70	.06	
BLASTERS; Drills (Diamond or Wagon); High scaler; Powderman; Tree topper	5.91	.55	1.05	.70	.06	
LABORERS on general construction work on or in bell hole footings & shaft	6.235	.55	1.05	.70	.06	
GUNITE LABORERS:						
NOZZLEMEN; Rodmen; Gunmen; Groundmen	6.145	.55	1.05	.70	.06	
REBOUNDMEN	5.555	.55	1.05	.70	.06	

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POWER EQUIPMENT OPERATORS		Basic Hourly Rates	Fringe Benefits Payments				
			H & W	Pensions	Vacation	App. Tr.	Other
GROUP I							
ASSISTANTS TO ENGINEERS (Brakeman; Fireman; Heavy duty repairman helper; Oiler; Deckhand; Signalman; Switchman; Tar pot fireman); Partsman (Heavy duty repair shop parts room)	AREA 1	$6.71	.65	1.00	.60	.24	
	AREA 2	7.84	.65	1.00	.60	.24	
GROUP II							
COMPRESSOR OPERATOR; Concrete mixer (up to & incl. 1 yd.); Conveyor belt op. (tunnel); Fireman hot plant; Hydraulic monitor; Mechanical conveyor (handling building materials); Mixer box operator (concrete plant); Pump operator; Spreader boxman (with screeds); Tar pot fireman (power agitated)	AREA 1	6.99	.65	1.00	.60	.24	
	AREA 2	8.12	.65	1.00	.60	.24	
GROUP III							
BOX OPERATOR (bunker); Locomotive; Motorman; Oiler; Rodman or chainman; Ross carrier(construction job site); Rotonist operator; Screedman (except asphaltic concrete paving); Self-propelled, automatically applied concrete curing machine (on streets, highways, airports and canals); Trenching machine (maximum digging capacity 3 ft. depth); Tugger hoist, single drum	AREA 1	7.16	.65	1.00	.60	.24	
	AREA 2	8.29	.65	1.00	.60	.24	
GROUP IV							
BALLAST JACK TAMPER; Ballast regulator; ballast tamper multi-purpose; boxman (asphalt plant); Fork lift or lumber stacker (construction job site); Line Master; Lubrication & service engineer (mobile and grease rack); Material hoist (1 drum); Shuttlecar; Tie spacer Towermobile	AREA 1	7.62	.65	1.00	.60	.24	
	AREA 2	8.75	.65	1.00	.60	.24	
GROUP V							
COMPRESSOR OPERATOR (2 to 7); Concrete mixers (over 1 yd.); Concrete pumps or pumpcrete guns; Generators (100 K.W. or over); Press-weld (air-operated); Pumps (2 to 7); Welding machines (gasoline or diesel) (2 to 7)	AREA 1	7.79	.65	1.00	.60	.24	
	AREA 2	8.92	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments				
			H & W	Pensions	Vacation	App. Tr.	Other
GROUP VI							
BLH LIMA ROAD PACTOR or similar; Boom truck or dual purpose A-frame truck; Concrete batch plants (wet or dry); Concrete saws (self-propelled unit) on streets, highways, airports, and canals; Drilling and boring machinery, vertical & horizontal (not to apply to waterliners, wagon drills or jack-hammers); Gradesetter, grade checker (mechanical or otherwise); Highline cableway signalman; Locomotives (steam or over 30 tons) Maginnis internal full slab vibrator (on airports, highways, canals & warehouses); Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burn, curb and/or curb and gutter machine, concrete or asphalt; Portable crushers; Power jumbo operator (setting slip forms, etc. in tunnels); Roller; Screedman (Barber-Greene & similar) (asphaltic concrete paving); Self-propelled compactor (single engine); Self-propelled pipeline wrapping machine (perault, CRC, or similar types); Slip forms pumps (lifting device for concrete forms); Small rubber tired tractors; Surface heater	AREA 1	$7.90	.65	1.00	.60	.24	
	AREA 2	9.03	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)

		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
GROUP VII							
CONCRETE CONVEYOR OR CONCRETE PUMP, Truck or equipment mounted (boom length to apply); Concrete conveyor, building site; Deck engineers; Dual drum mixer; Fuller Kenyon pump and similar types; Instrument man; Material hoist (2 or more drums); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar; Mine or shaft hoist; Mixer-mobile; Pavement breaker with or without compressor combination; Pavement breaker, Truck mounted with compressor combination; Pipe bending machine (pipe lines only); Pipe cleaning machine (tractor propelled & supported); Pipe wrapping machine (tractor propelled and supported); Refrigeration plant; Self-propelled boom type lifting device; Self-propelled elevating grade plane; Slusher operator; Small tractor (with boom); Soil tester; Truck type loader	AREA 1	$8.04	.65	1.00	.60	.24	
	AREA 2	9.17	.65	1.00	.60	.24	
GROUP VIII							
ARMOR-COATER (or similar); Asphalt plant engineer; Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete batch plant (multiple units); Dozer; Heavy duty repairman and/or welders; Ken seal machine (or similar); Kolman loader; Loader (up to 2 yds.); Mechanical shield operator (or similar); Mechanical trench shield; Portable crushing & screening plants; Push cat; Rubber tired earth moving equipment (up to & incl. 45 cu. yds. "struck" m.r.c., euclids, T-pulls, DW-10,20,21 and similar); Tractor drawn scraper; Self-propelled compactor with dozer; Sheepfoot; Tractor; Trenching machine; Tri-batch paver; Tunnel mole boring machine operator; Welder; Woods-mixer (and other similar pugmill equipment)	AREA 1	8.36	.65	1.00	.60	.24	
	AREA 2	9.49	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)

		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
GROUP IX							
CANAL FINGER DRAIN DIGGER; Chicago boom; Combination mixer & compressor (gunite); Combination Slurry mixer and/or cleaner; Highline cableway (5 tons & under); Lull hi-lift or similar (20 ft. or over); Mucking machine; Tractor (with boom) (D-6 or larger and similar)	AREA 1	$8.54	.65	1.00	.60	.24	
	AREA 2	9.67	.65	1.00	.60	.24	
GROUP X							
BOOM-TYPE BACKFILLING MACHINE; Bridge crane; Cary-lift (or similar); Chemical grouting machine; Chief of party; Combination backhoe & loader (up to and incl. 1/2 cu. yd. m.r.c.); Derricks (2 operators required when swing engine remote from hoist); Derrick barges (except excavation work); Do-more loader & Adams elegrader; Elevating grader op.; Rubber tired scraper, self-loading (paddle wheels, etc.); Heavy duty rotary drills rigs (incl. caisson foundation work & Robbins type drills); Koehring Skooper (or similar); Lift slab machine (Vagtborg & similar types); Loader (2 yds. up to & incl. 4 yds.); Locomotive (over 100 tons) (single or multiple units); Multiple engine earth-moving machine (euclids, dozers, etc.) (no tandem scraper); Prestress wire wrapping machine; Shuttle car (reclaim station); Soil stabilizer (P & H or equal); Subgrader (gurries or other automatic type); Track laying type-Earth moving machine (single engine with tandem scrapers); Tractor, compressor drill combination; Train loading station; Vacuum cooling plant; Single engine scraper over 45 yds.; Whirley crane (up to & incl. 25 tons)	AREA 1	8.70	.65	1.00	.60	.24	
	AREA 2	9.83	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Othe.
GROUP X - A							
BACKHOE (hydraulic) (up to and incl. 1 cu. yd. m.r.c.); Backhoe (cable) (up to and incl. 1 cu. yd. m.r.c.); Combination backhoe and loader over 1/2 cu. yd. m.r.c.); Continuous flight tie back Auger (up to and incl. 1 cu. yd.) (crane attached); Cranes (not over 25 tons, hammerhead & gantry); Grade all (up to and incl. 1 cu. yd.); Power shovels, Clamshells, Draglines, (up to and incl. 1 cu. yd. m.r.c.); Power blade; Self-propelled boom-type lifting device (center mount) (over 10 tons); Self-propelled boom-type lifting device (center mounted) (over 15 tons)	AREA 1	$8.79	.65	1.00	.60	.24	
	AREA 2	9.92	.65	1.00	.60	.24	
GROUP XI							
AUTOMATIC CONCRETE SLIP FORM PAVER; Automatic railroad car dumper; Canal finger drain backfiller; Canal trimmer; Canal trimmer w/ditching attachments; Cranes (over 25 tons up to and incl. 125 tons); Continuous flight tie back Auger over 1 cu. yd. (incl. crane); Drott travelift 650-A-1 or similar (45 tons or over); Rubber tired earth moving machines (multiple propulsion power units & two or more scrapers) (up to & incl. 75 cu. yds. "struck" m.r.c.); Highline cableway (over 5 tons); Loader (over 4 yds. up to & incl. 12 cu. yds.); Power blades operator (multi-engine); Power shovels, Clamshells, Draglines, Backhoes, Gradalls, (over 1 yd. up to & incl. 7 cu. yds. m.r.c.); Self-propelled compactor (with multiple propulsion power units); Slip form paver (concrete to asphalt); Tandem cats; Tower cranes mobile; Trencher (pulling attached shield); Tower cranes mobile; Single engine rubber tired earth moving machine (with tandem scrapers); Universal Liebher and Tower cranes (and similar types); Wheel excavator (up to & incl. 750 cu yds. per hour); Whirley cranes (over 25 tons)	AREA 1	8.94	.65	1.00	.60	.24	
	AREA 2	10.07	.65	1.00	.60	.24	

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POWER EQUIPMENT OPERATORS (cont'd)		Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Othe.
GROUP XI - A							
LOADER (over 12 cu. yds. up to & incl. 18 cu. yds.); Rubber tired multi-purpose earth moving machine (2 units) (over 75 cu. yds. "struck" m.r.c.); Power shovels & draglines (over 7 cu. yds. m.r.c.); Band wagons (in conjunction with wheel excavator) Wheel excavator (over 750 yds. per hour); Cranes (over 125 tons)	AREA 1	$9.82	.65	1.00	.60	.24	
	AREA 2	10.95	.65	1.00	.60	.24	
GROUP XI - B							
LOADER (over 18 cu. yds.)	AREA 1	10.04	.65	1.00	.60	.24	
	AREA 2	11.17	.65	1.00	.60	.24	
GROUP XI - C							
OPERATOR OF HELICOPTER (when used in erection work); Remote controlled earth moving equipment	AREA 1	10.27	.65	1.00	.60	.24	
	AREA 2	11.40	.65	1.00	.60	.24	

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PILEDRIVING	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Oth
GROUP I ASSISTANT TO ENGINEER (Fireman, Oiler, Deckhand)	$6.77	.65	1.00	.60	.24	
GROUP Ia COMPRESSOR OPERATOR	7.04	.65	1.00	.60	.24	
GROUP Ib TRUCK CRANE OILER	7.16	.65	1.00	.60	.24	
GROUP IIa TUGGER HOIST (Hoisting material only)	7.68	.65	1.00	.60	.24	
GROUP IIb COMPRESSOR OPERATOR (2-7); Generator (100 k.w. or over); Pump (2-7); Welding machine (2-7) powered other than by electricity)	7.85	.65	1.00	.60	.24	
GROUP III DECK ENGINEER; Fork lift; A-frame; Self-propelled boom-type lifting device	8.10	.65	1.00	.60	.24	
GROUP IIIa HEAVY DUTY REPAIRMAN AND/OR WELDER	8.41	.65	1.00	.60	.24	
GROUP IV OPERATING ENGINEER IN LIEU OF ASSISTANT TO ENGINEER TENDING BOILER OR COMPRESSOR ATTACHED TO CRANE PILEDRIVER; Operator of piledriving rigs, skid or floating and derrick barges; Operator of diesel or gasoline powered crane piledriver (w/o boiler) up to & incl. 1 cu. yd.; Truck crane (up to & incl. 25 tons hoisting material only)	8.87	.65	1.00	.60	.24	
GROUP V OPERATOR OF DIESEL OR GASOLINE POWERED CRANE PILEDRIVER WITHOUT BOILER, OVER 1 cu. yd.; Operator of crane (w/steam, flash boiler, pump or compressor attached); Operator of steam powered crawler, or Universal type driver (Raymond or similar type); Truck crane (over 25 tons hoisting material or performing piledriving work)	8.99	.65	1.00	.60	.24	

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HYDRAULIC SUCTION DREDGES	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	D
BARGEMEN; Deckhand; Fireman; Leverhand; Oiler	$6.71	.65	1.00	.60	.19	
WINCHMAN (stern winch on dredge)	7.30	.65	1.00	.60	.19	
DECKMATE	7.40	.65	1.00	.60	.19	
WATCH ENGINEER; Welder	7.95	.65	1.00	.60	.19	
LEVERMAN	8.64	.65	1.00	.60	.19	
CLAMSHELL & DIPPER DREDGES						
DECKHAND; Fireman; Oiler	6.71	.65	1.00	.60	.19	
DECK ENGINEER	8.04	.65	1.00	.60	.19	
WELDER; Mechanic welder	8.36	.65	1.00	.60	.19	
CLAMSHELL OP. (up to & incl. 7 cu. yds. m.v.c.)(long boom pay)	8.94	.65	1.00	.60	.19	
CLAMSHELL OP. (over 7 cu. yds. m.v.c) (long boom pay)	9.82	.65	1.00	.60	.19	

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TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Oth
BULK CEMENT SPREADER (w/wo auger, under 4 yds. water level); Bus or manhaul driver; Concrete pump machine; Concrete pump truck(when flat rack truck is used appropriate flat rack rate shall apply); Dump (under 4 yds. water level); Dump-crete truck (under 4 yds. water level); Dumpster (under 4 yds. water level); Escort or pilot car driver; Nipper truck (when flat rack truck is used appropriate flat rack rate shall apply); Pickups; Skids (debris box, under 4 yds. water level); Team drivers; Trucks (dry pre-batch concrete mix, under 4 yds. water level); Vacuum truck helpers; Warehousemen	$6.075	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 4 yds. and under 6 yds. water level); Dump (4 yds. & under 6 yds. water level); Dump-crete (4 yds. & under 6 yds. water level); Dumpster (4 yds. & under 6 yds. water level); Skids (debris box, 4 yds. & under 6 yds. water level); Single unit flat rack (2 axle unit-industrial lift, mechanical tailgate); Trucks (dry pre-batch concrete mix, 4 yds. & under 6 yds. water level)	6.17	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (under 2,500 gals)	6.185	.765	.50	.75		
LIFT JITNEYS, Fork lift	6.205	.765	.50	.75		
TRANSIT MIX, AGITATOR (under 6 yds.)	6.225	.765	.50	.75		
TRUCK REPAIRMAN HELPER	6.245	.765	.50	.75		
VACUUM TRUCK (under 3,500 gals)	6.255	.765	.50	.75		
SCISSOR TRUCK; Single unit flat rack (3 axle unit-industrial lift truck, mechanical tailgate); Small rubber tired tractor (when used within teamsters' jurisdiction)	6.27	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (2,500 gals under 4,000 gals)	6.285	.765	.50	.75		
COMBINATION WINCH TRUCK WITH HOIST; Transit mix, agitator (6 yds.& under 8 yds.)	6.325	.765	.50	.75		

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TRUCK DRIVERS CONT'D	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
VACUUM TRUCK (3,500 gals & under 5,500 gals)	6.335	.765	.50	.75		
RUBBER-TIRED MUCK CAR (not self-loaded)	6.345	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 6 yds. & under 8 yds. water level); Dump (6 yds. & under 8 yds. water level); Dump-crete (6 yds. & under 8 yds. water level); Dumpster (6 yds. & under 8 yds. water level); Skids (debris box, 6 yds. & under 8 yds. water level); Trucks (dry pre-batch concrete mix, 6 yds. & under 8 yds. water level)	6.37	.765	.50	.75		
A-FRAME, WINCH TRUCKS; Buggymobile; Hydro-lift, Swedish crane type (jetting) Jetting & water truck (4,000 gals & under 5,000 gals); Rubber tired jumbo	6.385	.765	.50	.75		
HEAVY DUTY TRANSPORT (high bed)	6.39	.765	.50	.75		
ROSS HYSTER & SIMILAR STRADDLE CARRIER	6.415	.765	.50	.75		
TRANSIT MIX AGITATOR (8 yds. through 10 yds.)	6.425	.765	.50	.75		
VACUUM TRUCK (5,000 gals & under 7,500 gals)	6.435	.765	.50	.75		
JETTING TRUCK & WATER TRUCK (5,000 gals & under 7,000 gals)	6.485	.765	.50	.75		
TRANSIT MIX AGITATOR (over 10 yds. through 12 yds.)	6.525	.765	.50	.75		
HEAVY DUTY TRANSPORT (gooseneck lowbed)	6.62	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, 8 yds. & incl. 12 yds. water level); Dump (8 yds. & incl. 12 yds. water level);Dump-crete (8 yds. & incl. 12 yds. water level); Self-propelled street sweeper with self-contained refuse bin; Skids (debris box, 8 yds. & incl. 12 yds. water level); Snow go and/or snow plow; Truck (dry pre-batch concrete mix, 8 yds & incl. 12 yds. water level); Dumpster (8 yds. & incl. 12 yds. water level)	6.61	.765	.50	.75		

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TRUCK DRIVERS CONT'D	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
TRANSIT MIX AGITATOR (over 12 yds. through 14 yds.)	6.625	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 12 yds. & incl. 18 yds. water level); Dump (over 12 yds. & incl. 18 yds. water level); Dumpcrete (over 12 yds. & incl. 18 yds. water level); Dumpster (over 12 yds. & incl. 18 yds. water level); Skids (debris box, over 12 yds. & incl. 18 yds. water level); Trucks (dry pre-batch concrete mix, over 12 yds. & incl. 18 yds. water level)	6.65	.765	.50	.75		
P. B. OR SIMILAR TYPE SELF-LOADING TRUCK	6.71	.765	.50	.75		
TRUCK REPAIRMAN	6.745	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 18 yds. & incl. 24 yds. water level); Combination dump & dump trailer; Dump (over 18 yds. & incl. 24 yds. water level); Dumpcrete (over 18 yds. & incl. 24 yds. water level); Dumpster (over 18 yds. & incl. 24 yds. water level); Skid (debris box, over 18 yds. & incl. 24 yds. water level); Transit mix agitator (over 14 yds. through 16 yds.); Trucks (dry pre-batch concrete mix, over 17 yds. & incl. 24 yds. water level)	6.735	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 24 yds. & incl. 35 yds. water level); Dump (over 24 yds. & incl. 35. yds. water level); Dumpcrete (over 24 yds. & incl. 35 yds. water level); Dumpster (over 24 yds. & incl. 35 yds. water level); IH 10's, 20's, 21's & other similar cat type, Terra Cobra, LeTourneaupuls, Tournorocker, Euclid & similar type equipment when pulling Aqua/Pak or water tank trailers & fuel and/or grease tank trailers or other misc. trailers; Skids (debris box, over 24 yds. & incl. 35 yds. water level); Truck (dry pre-batch concrete mix, over 24 yds. & incl. 35 yds. water level)	6.81	.765	.50	.75		

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TRUCK DRIVERS CONT'D	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
BULK CEMENT SPREADER (w/wo auger, over 35 yds. & incl. 50 yds. water level); Dump (over 35 yds. & incl. 50 yds. water level); Dumpcrete (over 35 yds. & incl. 50 yds. water level); Dumpster (over 35 yds. & incl. 50 yds. water level); Skids (debris box, over 35 yds. & incl. 50 yds. water level); Trucks (dry pre-batch concrete mix, over 35 yds & incl. 50 yds. water level)	6.96	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 50 yds. & under 65 yds. water level); Dump (over 50 yds. & under 65 yds. water level); Dumpcrete (over 50 yds. & under 65 yds. water level); Dumpster (over 50 yds. & under 65 yds. water level); Helicopter pilot (when transporting men or materials); Skids (debris box, over 50 yds. & under 65 yds. water level); Trucks (dry pre-batch concrete mix, over 50 yds. & under 65 yds. water level)	7.11	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 65 yds. & incl. 80 yds. water level); Dump (65 yds. & incl. 80 yds. water level); Dumpcrete (65 yds. & incl. 80 yds. water level); Dumpster (65 yds. & incl. 80 yds. water level); Skids (debris box, 65 yds. & incl. 80 yds. water level); Trucks (dry pre-batch concrete mix, 65 yds. & incl. 80 yds. water level)	7.26	.765	.50	.75		
BULK CEMENT SPREADER (w/wo auger, over 80 yds. & incl. 95 yds. water level); Dump (over 80 yds. & incl. 95 yds. water level); Dumpcrete (over 80 yds. & incl. 95 yds. water level); Dumpster (over 80 yds. & incl. 95 yds. water level); Skids (debris box, over 80 yds. & incl. 95 yds. water level); Trucks (dry pre-batch concrete mix, over 80 yds. & incl. 95 yds. water level)	7.41	.765	.50	.75		

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS

**AREA 2: All areas not included within Area 1 as defined below.

*AREA 1: All areas included in the description defined below which is based upon township and range lines of Areas 1 and 2.

Commencing in the Pacific Ocean on the extension of the Southerly line of Township 19S.
Thence Easterly along the Southerly line of Township 19S, crossing the Mt. Diablo meridian to the S.W. corner of township 19S, range 6E, Mt. Daiblo base line and meridian,
Thence Southerly to the S.W. corner of township 20S, range 6E,
Thence Easterly to the S.W. corner of township 20S, range 13E,
Thence Southerly to the S.W. corner of township 21S, range 13E,
Thence Easterly to the S.W. corner of township 21S, range 17E,
Thence Southerly to the S.W. corner of township 22S, range 17E,
Thence Easterly to the S.E. corner of township 22S, range 17E,
Thence Southerly to the S.W. corner of township 23S, range 18E,
Thence Easterly to the S.E. corner of township 23S, range 18E,
Thence Southerly to the S.W. corner of township 24S, range 19E, falling on the Southerly line of Kings County, thence Easterly along the Southerly boundary of Kings County and the Southerly boundary of Tulare County, to the S.E. corner of township 24S, range 29E,
Thence Northerly to the N.E. corner of township 21S, range 29E,
Thence Westerly to the N.W. corner of township 21S, range 29E,
Thence Northerly to the N.E. corner of township 13S, range 28E,
Thence Westerly to the N.W. corner of township 13S, range 28E,
Thence Northerly to the N.E. corner of township 11S, range 27E,
Thence Westerly to the N.W. corner of township 11S, range 27E,
Thence Northerly to the N.E. corner of township 10S, range 26E,
Thence Westerly to the N.W. corner of township 10S, range 26E,
Thence Northerly to the N.E. corner of township 9S, range 25E,
Thence Westerly to the N.W. corner of township 9S, range 25E,
Thence Northerly to the N.E. corner of township 8S, range 24E,
Thence Westerly to the N.W. corner of township 8S, range 24E,
Thence Northerly to the N.E. corner of township 6S, range 23E,
Thence Westerly to the S.E. corner of township 5S, range 19E,
Thence Northerly to the N.E. corner of township 5S, range 19E,
Thence Westerly to the N.W. corner of township 5S, range 19E,
Thence Northerly to the N.E. corner of township 3S, range 18E,
Thence Westerly to the N.W. corner of township 3S, range 18E,
Thence Northerly to the N.E. corner of township 2S, range 17E,
Thence Westerly to the N.W. corner of township 2S, range 17E,
Thence Northerly crosing the Mt. Diablo baseline to the N.E. corner of township 2N, range 16E,
Thence Westerly to the N.W. corner of township 2N, range 16E,
Thence Northerly to the N.E. corner of township 3N, range 15E,
Thence Westerly to the N.W. corner of township 3N, range 15E,
Thence Northerly to the N.E. corner of township 4N, range 14E,

CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd):
Thence Westerly to the N.W. corner of township 4N, range 14E,
Thence Northerly to the N.E. corner of township 5N, range 13E,
Thence Westerly to the N.W. corner of township 5N, range 13E,
Thence Northerly to the N.E. corner of township 10N, range 12E,
Thence Easterly to the S.E. corner of township 11N, range 14E,
Thence Northerly to the N.E. corner of township 11N, range 14E,
Thence Westerly to the N.E. corner of township 11N, range 10E,
Thence Northerly to the N.E. corner of township 15N, range 10E,
Thence Easterly to the S.E. corner of township 16N, range 11E,
Thence Northerly to the N.E. corner of township 16N, range 11E,
Thence Easterly to the S.E. corner of township 17N, range 14E,
Thence Southerly to the S.W. corner of township 14N, range 15E,
Thence Easterly to the S.E. corner of township 14N, range 15E,
Thence Southerly to the S.W. corner of township 13N, range 16E,
Thence Easterly to the S.E. corner of township 13N, range 16E,
Thence Southerly to the S.W. corner of township 12N, range 17E,
Thence Easterly along the Southern line of township 12N to the Eastern boundary of the state of California,
Thence Northwesterly, thence Northerly along the Eastern boundary of the state of California to the N.E. corner of township 17N, range 18E,
Thence Westerly to the N.W. corner of township 17N, range 11E,
Thence Northerly to the N.E. corner of township 20N, range 10E,
Thence Westerly to the N.W. corner of township 20N, range 10E,
Thence Northerly to the N.E. corner of township 21N, range 9E,
Thence Westerly to the N.W. corner of township 21N, range 9E,
Thence Northerly to the N.E. corner of township 22N, range 8E,
Thence Westerly to the N.W. corner of township 22N, range 8E,
Thence Northerly to the S.W. corner of township 27N, range 8E,
Thence Easterly to the S.E. corner of township 27N, range 8E,
Thence Northerly to the N.E. corner of township 28N, range 8E,
Thence Westerly to the N.W. corner of township 28N, range 7E,
Thence Northerly to the N.E. corner ot township 30N, range 6E,
Thence Westerly to the N.W. corner of township 30N, range 1E,
Thence Northerly along the Mt. Diablo meridian to the N.E. corner of township 34N, range 1W,
Thence Westerly to the N.W. corner of township 34N, range 6W,
Thence Southerly to the N.E. corner of township 32N, range 7W,
Thence Westerly to the N.W. corner of township 32N, range 7W,
Thence Southerly to the S.W.corner of township 30N, range 7W,
Thence Easterly to the S.E. corner of township 30N, range 7W,
Thence Southerly to the S.W. corner of township 16N, range 6W,
Thence Easterly to the S.E. corner of township 16N, range 6W,
Thence Southerly to the S.W. corner of township 14N, range 5W,
Thence Westerly to the S.E. corner of township 14N, range 7W,
Thence Northerly to the N.E. corner of township 14N, range 7W,
Thence Westerly to the N.W. corner of township 14N, range 7W,
Thence Northerly to the N.E. corner of township 15N, range 8W,

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CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd)
Thence Westerly to the S.E. corner of township 16N, range 12W,
Thence Northerly to the N.E. corner of township 16N, range 12W,
Thence Westerly to the N.W. corner of township 16N, range 12W,
Thence Northerly to the N.E. corner of township 18N, range 13W,
Thence Westerly to the N.W. corner of township 18N, range 14W,
Thence Southerly to the S.W. corner of township 18N, range 14W,
Thence Easterly to the S.E. corner of township 18N, range 14W,
Thence Southerly to the S.W. corner of township 16N, range 13W,
Thence Westerly to the N.W. corner of township 15N, range 14W,
Thence Southerly to the S.W. corner of township 14N, range 14W,
Thence Easterly to the S.E. corner of township 14N, range 14W,
Thence Southerly to the S.W. corner of township 13N, range 13W,
Thence Easterly to the S.E. corner of township 13N, range 13W,
Thence Southerly to the S.W. corner of township 11N, range 12W,
Thence Easterly to the S.E. corner of township 11N, range 12W,
Thence Southerly along the Eastern line of range 12W to the Pacific Ocean excluding that portion of Northern California within Santa Clara County included within the following line:
Commencing at the N.W. corner of township 6S, range 3E, Mt. Diablo baseline and Meridian:
Thence in a Southerly direction to the S.W. corner of township 7S, range 3E,
Thence in a Easterly direction to the S.E. corner of township 7S, range 4E,
Thence in a Northerly direction to the N.E. corner of township 6S, range 4E,
Thence in a Westerly direction to the N.W. corner of township 6S, range 3E, to the point of beginning which portion is a part of Area 2.
Area 1 also includes that portion of Northern California within the following lines:
Commencing in the Pacific Ocean on an extension of the Southerly line of township 2N, Humboldt baseline and meridian:
Thence Easterly along the Southerly line of township 2N to the S.W. corner of township 2N, range 1W,
Thence Southerly to the S.W. corner of township 1N, range 1W,
Thence Easterly along the Humboldt baseline to the S.W. corner of township 1N, range 2E,
Thence Southerly to the S.W. corner of township 2S, range 2E,
Thence Easterly to the S.E corner of township 2S, range 2E,
Thence Southerly to the S.W. corner of township 4S, range 3E,
Thence Easterly to the S.E. corner of township 4S, range 3E,
Thence Northerly to the N.E. corner of township 2S, range 3E,
Thence Westerly to the N.W. corner of township 2S, range 3E,
Thence Northerly crossing the Humboldt baseline to the S.W. corner of township 1N, range 3E,
Thence Easterly along the Humboldt baseline to the S.E. corner of township 1N, range 3E,
Thence Northerly to the N.E. corner of township 9N, range 3E,
Thence Westerly to the N.W. corner of township 9N, range 2E,
Thence Northerly to the N.E. corner of township 10N, 1E,

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CALIFORNIA
AREA DEFINITIONS for
POWER EQUIPMENT OPERATORS (cont'd)

*Area 1 (cont'd)
Thence Westerly along the Northerly line to township 10N, into the Pacific Ocean.
Area 1 also includes that portion of Northern California included within the following line:
Commencing at the Northerly boundary of the state of California at the N.W. corner of township 48N, range 7W, Mt. Diablo baseline and meridian:
Thence Southerly to the S.W. corner of township 44N, range 7W,
Thence Easterly to the S.E. corner of township 44N, range 7W,
Thence Southerly to the S.W. corner of township 43N, range 6W,
Thence Easterly to the S. E. corner of township 43N, range 5W,
Thence Northerly to the N.E. corner of township 48N, range 5W, on the Northerly boundary of the state of California,
Thence Westerly along the Northerly boundary of the state of California to the point of beginning.

SUPERSEDEAS DECISION

STATE: Montana COUNTIES: Beaverhead, Dear Lodge, Gallatin and Silver Bow

DECISION NUMBER: AP-285 DATE: Date of Publication

Supersedes Decisions AP-240 dated September 22, 1972, in 37 FR 19912 and AP-238 dated September 22, 1972, in 37 FR 19904

DESCRIPTION OF WORK: Building Construction, (excluding single family homes and garden type apartments up to and including 4 stories).

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
ASBESTOS WORKERS	$8.15	.25	.37			
BOILERMAKERS	8.25	.30	1.00		.02	
BRICKLAYERS:						
Dear Lodge County	6.35					
Beaverhead County	7.00					
Gallatin County	6.65					
Silver Bow County	7.00					
CARPENTERS:						
Beaverhead County	5.53	.25	.35	.45		
Dear Lodge County	6.01	.30	.35		.01	
Gallatin County	6.02	.30	.35		.01	
Silver Bow County	5.87	.30	.35	.50		
CEMENT MASONS:						
Beaverhead, Dear Lodge and Silver Bow Counties	4.90	.30		.60		
Gallatin County	5.95	.25				
ELECTRICIANS:						
Beaverhead and Silver Bow Counties	6.65	.30	1%		½%	
Dear Lodge County	6.95		1%		½%	
Gallatin County	6.15	.20	1%		½%	
ELEVATOR CONSTRUCTORS	5.915	.195	.20	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.195	.20	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
IRONWORKERS:						
Ornamental; Reinforcing; Structural	7.10	.40	.65		.05	
LATHERS:						
Dear Lodge, Gallatin and Silver Bow Counties	5.95				.01	
MARBLE MASON:						
Gallatin County	6.65					
PAINTERS:						
Beaverhead and Silver Bow Counties						
Brush	5.56					
Roller, over 8 ft.	6.06					
Spray	8.34					
PLASTERERS:						
Beaverhead, Dear Lodge and Silver Bow Counties	4.90	.30		.60		
Gallatin County	5.00	.25				
PLUMBERS:	6.30	.25	.15		.05	
ROOFERS	5.33	.35	.30	.50		
SHEET METAL WORKERS:						
Gallatin County	6.56	.27	.10		.02	
Beaverhead, Dear Lodge and Silver Bow Counties	6.55	.27	.20			
SPRINKLER FITTERS	7.20	.30	.50		.05	
TERRAZZO WORKERS & Tile Setters						
Gallatin County	$6.65					

FOOTNOTE:

a. Employer contributes 4% basic hourly rate for over 5 years service and 2% basic hourly rate for 6 months to 5 years service as Vacation Pay Credit. Six Paid Holidays: A through F.

PAID HOLIDAYS:

A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

REMAINING COUNTIES

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LABORERS						
Common laborer; Laborers with roofers; Moving, cleaning, oiling and carring to the next point of erection, and the stripping of forms which are not to be re-used, and of forms on all flat arch work; Laborer dumpman; Fence erector and installer - includes the installation and erection of highway fences, guard rails, median curbs, reference posts, guide posts and right-of-way markers; Breaking and drilling concrete, by hand, except for blasting; Breaking and drilling of asphalt pavement by hand; Mixing and paving cold asphalt pavement; Axeman; Chuck tender and nipper, above ground; Nozzleman, air and water; Scissorman; Stake jumper	4.225	.15	.20	.405	.02	
Riprapping of stone, rock or brick	4.30	.15	.20	.405	.02	
Hand faller	4.305	.15	.20	.405	.02	
Post hole digger, power auger	4.32	.15	.20	.405	.02	
Tunnel and shafts - Free air, bull-gang, pot tender	4.325	.15	.20	.405	.02	
Mechanical tamper; Pavement breaker or other power tools used by laborers not otherwise classified	4.35	.15	.20	.405	.02	
Installing metallic or non-metallic highway culvert pipe incl. sectional plate pipe 48" and under	4.375	.15	.20	.405	.02	
Choker setter; Pipewrapper; Power saw (bucking and falling); Brakeman; Chucktenders; Muckers; Nippers; Primerlouseman	4.385	.15	.20	.405	.02	
Wagon driller, running jackhammer or hand drilling for blasting and sand-blasting; Car or turck mounted air operated drills	4.40	.15	.20	.405	.02	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LABORERS(Cont'd)						
Laying of all sewer tile or drain pipe; Mixing and paving hot asphalt pavement	4.475	.15	.20	.405	.02	
Powderman	4.50	.15	.20	.405	.02	
Highscaler; Concrete nozzleman; Miners	4.585	.15	.20	.405	.02	
Core drill operator	4.825	.15	.20	.405	.02	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Gallatin County						
Laborers:						
General Laborers; Hod carriers; Jackhammer operator; Vibrator; Mixer; Concrete pump tender; Nozzleman; Concrete curb machine; Curb form setter	4.83	.35	.25		.03	
	5.08	.35	.25		.03	

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MONT-1-PRD-1-2-3-c (1-4)

Gallatin County

POWER EQUIPMENT OPERATORS:	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
CRUSHER CONVEYOR; Farm type tractor, up to & incl. 50 HP engine; Grade setter	$6.33	.45	.45		.02	
CRUSHER OILER & HELPER; Field equipment serviceman helper; Hot plant oiler, 100 ton per hr. or over; Mechanic and/or welder helper on job; Oiler other than shovels & cranes; Shovel oiler, 3 cy and under; Washing and screening plant oiler	6.36	.45	.45		.02	
CONCRETE BATCH PLANT OILER, UP TO & INCL. 2 MIXERS	6.39	.45	.45		.02	
AIR COMPRESSOR, SINGLE; Pumpman	6.40	.45	.45		.02	
FARM TYPE TRACTOR, OVER 50 HP ENGINE; Herman Nelson heater & similar types	6.41	.45	.45		.02	
CRANE OILER; Oiler-driver, rubber-tired cranes	6.44	.45	.45		.02	
CONVEYOR LOADER, UP TO & INCL. 42" BELT	6.45	.45	.45		.02	
BORING MACHINE, JEEP, PICKUP OR FARM TRACTOR MOUNTED; Concrete mixer, 3 bags & under; Fireman; Heavy duty drills, helper; Retort op.	6.46	.45	.45		.02	
BROOM, SELF-PROPELLED	6.54	.45	.45		.02	
AIR COMPRESSOR, 2 OR MORE; Belt finishing machine; Conveyor loader, over 42" belt; Roller, on other than hot mix oil, paving	6.57	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, 1 CY & UNDER	6.58	.45	.45		.02	

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MONT-1-PRD-1-2-3-c (2-4)

POWER EQUIPMENT OPERATORS' CONT'D:	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
CHAIN BUCKET LOADER; Chip gravel spreader, self-propelled; DW 10, 15, 20 tractor pulling roller	6.59	.45	.45		.02	
CONCRETE MIXER, 4 BAGS & OVER	6.63	.45	.45		.02	
FORM GRADER; Hoist, single drum	6.64	.45	.45		.02	
CEMENT SILO	6.66	.45	.45		.02	
FORKLIFT, ON CONSTRUCTION SITE	6.68	.45	.45		.02	
CONCRETE BATCH PLANT OILER, 3 MIXERS AND OVER	6.70	.45	.45		.02	
A-FRAME TRUCK, CRANE, WINCH TRUCK AND SIMILAR	6.71	.45	.45		.02	
HYDRALIFT AND SIMILAR TYPES; Oiler, hoist house, dams; Whirley crane oiler	6.77	.45	.45		.02	
FIELD EQUIPMENT SERVICEMAN	6.79	.45	.45		.02	
AIR DOCTOR; Asphalt paving machine; Asphalt paving machine, screed; Bit grinder; Bitum. mixer paving, travel plant; Boring machine, large; Concrete batch plant, 1 and 2 mixers; Concrete finishing machine, paving; Concrete bucket dispatcher; Concrete curing machine; Concrete float and spreader; Concrete power saw, self-propelled; Concrete travel batcher; Crusher op.; Distributor; Elevating grader; Gradeall; Heavy duty drills, all types; Hoist, 2 or more drums; Hot plant op.; Hot plant fireman; Industrial locomotive, all types; Mountain logger or similar type; Mucking machine; Pavement breaker, Emsco and similar; Power auger large truck or tractor, mounted and punch; Power mixer, single or double drum; Power saw, self-propelled, multiple cut; Pumpcrete or grout machine; Push tractor; Refrigerator plant; Roller, on blade or hot mix oil paving; Roller, 25 ton or over; Ross and similar type carriers on construction site; Rubber-tired dozer;						

MONT-1-PVH-1-2-3-c (3-4)

POWER EQUIPMENT OPERATORS CONT'D:	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Rubber-tired frontend loader, over 1 cy to & incl. 3 cy; Scraper DW 15, 20, 21 & similar type if power unit is not used; Self-propelled sheeps foot & similar type; Shovels, incl. all attachments, under 1 cy; Track-type frontend loader, up to & incl. 5 cy; Track-type tractor with or without attachments; Trenching machine; Turnhead conveyor or head tower on batch plant; Wagner roller & similar type; Water pull when used for compaction; Washing and screening plant	6.87	.45	.45		.02	
MIXERMOBILE	6.95	.45	.45		.02	
MECHANIC AND/OR WELDER ON JOB	6.97	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 3 CY TO & INCL. 5 CY	6.99	.45	.45		.02	
AUTOMATIC FINISHERS, CURBERS AND OTHER SIMILAR TYPES; Motor patrol; Paving mixing machine; Scraper, single engine; Slip form paver	7.00	.45	.45		.02	
CRANE, UP TO & INCL. 80' BOOM WITH JIB	7.03	.45	.45		.02	
ELECTRIC OVERHEAD CRANES; Shovels, incl. all attachments, 1 cy to & incl. 3 cy; Track-type tractor, on euclid loader	7.05	.45	.45		.02	
CONCRETE BATCH PLANT, 3 AND 4 MIXERS	7.07	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 5 cy TO & INCL. 10 cy	7.09	.45	.45		.02	
SCRAPER, TWIN ENGINE; Track-type frontend loader, over 5 cy to & incl. 10 cy	7.10	.45	.45		.02	
CENTRAL MIXING PLANTS, CONCRETE DAMS & STATIONARY	7.12	.45	.45		.02	
QUAD CAT	7.17	.45	.45		.02	
CRANE, 81' TO 130' BOOM	7.18	.45	.45		.02	

MONT-1-PVH-1-2-3-c (4-4)

POWER EQUIPMENT OPERATORS CONT'D:	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
RUBBER-TIRED FRONTEND LOADER, OVER 10 CY TO & INCL. 15 CY	7.19	.45	.45		.02	
TRACK-TYPE FRONTEND LOADER, OVER 10 CY TO & INCL. 15 CY	7.20	.45	.45		.02	
CRANE, 131' TO 150' BOOM	7.23	.45	.45		.02	
SCRAPER, SINGLE OR TWIN ENGINE, PULLING BELLY DUMP TRAILER	7.25	.45	.45		.02	
CONCRETE BATCH PLANT, 5 MIXERS AND OVER	7.27	.45	.45		.02	
CRANE, 151' BOOM & OVER	7.28	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 15 CY (Factory rating not to include sideboards)	7.29	.45	.45		.02	
TRACK-TYPE FRONTEND LOADER, OVER 15 CY	7.30	.45	.45		.02	
SHOVEL, INCL. ALL ATTACHMENTS, OVER 3 CY TO & INCL. 5 CY; Stiff leg derrick and guy derrick	7.32	.45	.45		.02	
SCRAPER, TANDEM ENGINE	7.36	.45	.45		.02	
HELICOPTER HOIST	7.37	.45	.45		.02	
CABLEWAY HIGHLINE	7.38	.45	.45		.02	
WHIRLEY CRANE	7.40	.45	.45		.02	
SHOVELS, INCL. ALL ATTACHMENTS, OVER 5 CY	7.45	.45	.45		.02	

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MON-3-PEO-1-f (1-4)

REMAINING COUNTIES

POWER EQUIPMENT OPERATORS:	Basic Hourly Rates	Fringe Benefits Payments, H & W	Pensions	Vacation	Apr. Tr.	Oth
A-FRAME TRUCK CRANE	$ 6.71	.45	.45		.02	
AIR COMPRESSOR, single	6.40	.45	.45		.02	
AIR COMPRESSOR, 2 or more; Belt finishing; Conveyor loader, over 42" belt; Roller, steel & self-propelled rubber on other than blade or hot-mix oil paving	6.57	.45	.45		.02	
AIR DOCTOR; Asphalt paving machine, or screed; Bit grinder; Bituminous mixer, paver; Boring machine, large (for guard rail holes); Bulldozer, rubber-tired or otherwise; Concrete batch plant, 1 & 2 mixers; Concrete bucket dispatcher; Concrete Curing Machine; Concrete finishing machine, paving; Concrete float & spreader; Concrete Power saw, self-propelled; Concrete travel batcher; Crusher and/or screening plant; Distributor; Elevating grader; Gradall; Heavy duty rotary drills (Quarry Master, Joy drills & similar types); Hoist, or air tugger, 2 or more drums; Hot plant; Hot plant; Hot plant fireman (when in operation); Industrial Locomotive, all types; Loaders, rubber-tired, over 1 yd. to & incl. 3 yds.; Loaders, track-type, up to & incl. 5 yds.; Loaders, traxcavator & Athey; Loader & Hoe combination, rubber-tired, loader 1 yd. & under, hoe 1 yd. & under; Mountain logger or similar; Mucking Machine; Pavement breaker, Emsco & similar; Power auger, large truck or tractor, mounted & punch; Power mixer, single or double drum; Power saw, self-propelled, multiple cut; Pumpcrete or grout machine; Push tractor; Refrigerator plant; Roller, steel & self-propelled rubber on Blade on hot-mix oil paving Roller, 25 tons, working weight or over, any type or make; Roller, Wagner & similar; Ross & similar type Carriers (on Constr. site); Scraper DW 10; Scraper, DW 15, 20, 21 & similar if Power unit is not used; Self-propelled sheepsfoot & similar; Shovels, incl. all attachs, under 1 yd.; Trenching machine; Turnhead conveyor or head tower op. on batch plant; water pull, when used for compaction; Washing & screening plant	6.87	.45	.45		.02	
AUTOMATIC FINEGRADER, gurries & similar; Motor patrol; Paving & mixing machine; Scraper, DW 15, 20, 21 & similar if power unit is used; Scraper, single engine; Slip form paver	7.00	.45	.45		.02	
BORING MACHINE; Concrete mixer, 3 bags & under; Fireman; Heavy duty rotary drill helper; Retort op.	6.46	.45	.45		.02	
BROOM OP., self-propelled	5.54	.45	.45		.02	
CABLEWAY OP.	7.38	.45	.45		.02	
CEMENT SILO	6.66	.45	.45		.02	
CENTRAL MIXING PLANTS, concrete dams & stationary	7.12	.45	.45		.02	
CHAIN BUCKET LOADER; Chip-gravel spreader self-propelled; DW 10, 15, 20 tractor pulling roller	6.59	.45	.45		.02	
CONCRETE BATCH PLANT OP., 3 & 4 mixers	7.07	.45	.45		.02	
CONCRETE BATCH PLANT OP., 5 mixers & over	7.27	.45	.45		.02	
CONCRETE BATCH PLANT OILER, up to & incl. 2 mixers	6.39	.45	.45		.02	
CONCRETE BATCH PLANT OILER, 3 mixers & over	6.70	.45	.45		.02	
CONCRETE MIXER OP., 4 bags & over	6.63	.45	.45		.02	
CONVEYOR LOADER, to & incl. 42" belt	6.45	.45	.45		.02	
CRANE, to & incl. 80' boom with jib	7.03	.45	.45		.02	
CRANE, 81' to 130' boom	7.18	.45	.45		.02	
CRANE, 131' to 150' boom	7.23	.45	.45		.02	

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MON-3-PEO-1-f (2-4)

MON-3-FEO-1-f (3-4)

POWER EQUIPMENT OPERATORS: (Cont)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Oth
CRANE, 151' boom & over	7.28	.45	.45		.02	
CRANE OILER; Oiler driver, rubber-tired cranes	6.44	.45	.45		.02	
CRANES, electric overhead; Shovels, incl. all attachs. 1 yd. to & incl. 3 yds.; Track type tractor, on euclid loader	7.05	.45	.45		.02	
CRANE, TOWER; Scraper, tandem or (engine)	7.36	.45	.45		.02	
CRANE, WHIRLEY	7.40	.45	.45		.02	
CRANE, WHIRLEY OILER; hydralift & similar; Oiler, hoist house, dams; Shovel oiler, over 3 yds.; Winch truck with boom	6.77	.45	.45		.02	
CRUSHER AND/OR SCREENING PLANT HELPER, (If over 2 separate units); Crusher oiler; Field equip. service helper; Hot plant oiler, 100 tons per hr. or over; Mechanic and/or welder helper on job; Oilers, other than shovels & cranes; Shovel oiler, 3 yds. & under; Washing and screening plant oiler	6.36	.45	.45		.02	
CRUSHER CONVEYOR, when required; Farm type tractor, up to & incl. 50 H.P.; Grade setter	6.33	.45	.45		.02	
DRILLING MACHINE (does not include Jack-hammer, Wagon drillers or waterlines)	6.78	.45	.45		.02	
EUCLID LOADER & similar; Loader & hoe combination, rubber-tired, loader 1 yd. to & incl. 3 yds., hoe over 1 yd.	7.06	.45	.45		.02	
FARM TYPE TRACTOR, over 50 H.P.; Heaters, Herman Nelson & similar	6.41	.45	.45		.02	
FIELD EQUIPMENT SERVICE MAN	6.79	.45	.45		.02	
FORK LIFT (On constr. site)	6.68	.45	.45		.02	
HOIST, OR AIR TUGGER, single drum; Farm grader	6.64	.45	.45		.02	

MON-3-FEO-1-f (4-4)

POWER EQUIPMENT OPERATORS: (Cont.)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Oth
FULLER KENYON PUMP; Loaders (Barber Green & similar)	6.52	.45	.45		.02	
HELICOPTER HOIST	7.37	.45	.45		.02	
LOADERS, RUBBER-TIRED, 1 yd. & under	6.58	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 3 yds. to & incl. 5 yds.	6.99	.45	.45		.02	
LOADERS, RUBBER-TIRED, 5 yds. to & incl. 10 yds.	7.09	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 10 yds, to & incl. 15 yds.	7.19	.45	.45		.02	
LOADERS, RUBBER-TIRED, over 15 yds. (factory rating not to incl. side-boards)	7.29	.45	.45		.02	
LOADERS, TRACK-TYPE, over 5 yds. to & incl. 10 yds. Scraper, twin engine	7.10	.45	.45		.02	
LOADERS, TRACK-TYPE, over 10 yds. to & incl. 15 yds.	7.20	.45	.45		.02	
LOADERS, TRACK-TYPE, over 15 yds.	7.30	.45	.45		.02	
MECHANIC AND/OR WELDER, on job	6.94	.45	.45		.02	
MIXERMOBILE.	6.95	.45	.45		.02	
PILEDRIVER (when shovel equip. is not used)	6.52	.45	.45		.02	
QUAD CAT	7.17	.45	.45		.02	
SCRAPER, single or twin engine pulling belly dump trailer	7.25	.45	.45		.02	
SHOVELS, incl. all attachs., over 3 yds. to & incl. 5 yds., Stiff-leg derrick & guy derrick	7.32	.45	.45		.02	
SHOVELS, incl. all attachs., over 5 yds.	7.45	.45	.45		.02	

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	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
Gallatin County						
Truck Drivers: Dump, 7 yds, or less; Pickup, hauling materials; Flat, less than 2 ton; Service and A-Frame trailers	$4.76	.45	.25			
House movers	4.80	.45	.25			
Flat, 2 - 5 tons	4.91	.45	.25			
Dump, over 7 yds. to and incl. 10 yds.; Flat, 5 - 8 tons; Semi and four wheel trailers	5.01	.45	.25			
Dump, over 10 yds. to and incl. 15 yds.	5.17	.45	.25			
Dump, over 15 yds. to and incl. 20 yds.	5.31	.45	.25			

Bearverhead, Deer Lodge and Silver Bow Counties

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MONT-1-TD-1-2-J-((1 of 2)

TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
COMBINATION Truck; Concrete Mixer & Transit Mixer:						
To & incl. 4 cu. yds.	$5.80	.45	.30			
Over 4 cu. yds. to & incl. 6 cu. yds.	5.88	.45	.30			
Over 6 cu. yds. to & incl. 8 cu. yds.	5.96	.45	.30			
Over 8 cu. yds. to & incl. 10 cu. yds.	6.04	.45	.30			
Over 10 cu. yds. - additional $.08 per hour each additional 2 cu. yds. increment						
DISTRIBUTOR DRIVER & HELPER	5.73	.45	.30			
DRY BATCH TRUCKS:						
3 Batch or under	5.55	.45	.30			
Over 3 Batch to & incl. 5 Batch	5.68	.45	.30			
Over 5 Batch to & incl. 10 Batch	5.84	.45	.30			
Over 10 Batch to & incl. 15 Batch	6.00	.45	.30			
Over 15 Batch - additional $.15 per hour each additional 5 Batch increment						
DUMPMAN, GRAVEL SPREADER BOX: Pickup Driver, Hauling Materials; Pilot Car Driver, Teamsters & Helpers; Warehousemen, Partsmen, Cardex men, Warehouse Expediter	5.55	.45	.30			
DUMP TRUCKS & SIMILAR EQUIPMENT WATER LEVEL CAPACITY, INCLUDING SIDEBOARDS:						
7 cu. yds. or less	5.55	.45	.30			
Over 7 cu. yds. to & incl. 10 cu. yds.	5.68	.45	.30			
Over 10 cu. yds. to & incl. 15 cu. yds.	5.84	.45	.30			
Over 15 cu. yds. to & incl. 20 cu. yds.	5.98	.45	.30			
Over 20 cy. yds. to & incl. 25 cu. yds.	6.04	.45	.30			
Over 25 cu. yds. to & incl. 30 cu. yds.	6.10	.45	.30			
Over 30 cu. yds. to & incl. 35 cu. yds.	6.16	.45	.30			
Over 35 cu. yds. to & incl. 40 cu. yds.	6.22	.45	.30			
Over 40 cu. yds. to & incl. 45 cu yds.	6.28	.45	.30			
Over 45 cu. yds. - additional $.06 per hour each additional 5 cu. yds. increment						
DUMPSTERS	5.68	.45	.30			
EW 20, EW 21, or EUCLID TRACTORS, PULLING P.R. 21 or SIMILAR DUMP WAGONS:						
To & incl. 25 cu. yds.	6.04	.45	.30			
Over 25 cu. yds. to & incl. 30 cu. yds.	6.10	.45	.30			
Over 30 cu. yds. - additional $.06 per hour each additional 5 cu. yd. increment						

	Basic Hourly Rates	Fringe Benefits Payments			
		H & W	Pensions	Vacation	App. Tr.
SERVICEMEN	$6.29	.45	.30		
POWDER TRUCK DRIVER (bulk unloader type)	5.73	.45	.30		
FLAT TRUCKS:					
To & incl. 3 Tons	5.55	.45	.30		
Over 3 tons Factory rating	5.90	.45	.30		
FUEL TRUCK; SERVICE TIREMEN	6.02	.45	.30		
LOWBOYS, FOUR-WHEEL TRAILER, FLOAT SEMI-TRAILER	5.90	.45	.30		
LUMBER CARRIERS, LIFT TRUCKS; Power Broom	5.64	.45	.30		
WATER TANK DRIVERS, PETROLEUM PRODUCTS DRIVERS:					
2,500 gals & under	5.55	.45	.30		
Over 2,500 gals to & incl. 4,500 gals	5.84	.45	.30		
Over 4,500 gals to & incl. 6,000 gals	6.04	.45	.30		
Over 6,000 gals to & incl. 8,000 gals	6.10	.45	.30		
Over 8,000 gals to & incl. 10,000 gals	6.18	.45	.30		
Over 10,000 gals - additional $.08 per hour each additional 2,000 gals increment					
WINCH, A-FRAME, SWEDISH CRANE, HYDRA-LIFT, CROUTCRETE, & COMBINATION MULCHING, SEEDING & FERTILIZING	5.80	.45	.30		
TRUCK MECHANIC	6.29	.45	.30		
ALL TUNNEL & UNDERGROUND WORK 10% ADDITIONAL					

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LINE CONSTRUCTION (Jobs 69,000 volts or less)						
Cable splicer	$6.71	.25	1%		½%	
Line equipment operators; Powdermen	5.96	.25	1%		½%	
Experienced groundmen (2 yrs.); Truck drivers	4.72	.25	1%		½%	
Groundmen; Pole digger (groundman)	4.20	.25	1%		½%	
Linemen	6.07	.25	1%		½%	
(Jobs over 69,000 volts)						
Cable splicers	6.88	.25	1%		½%	
Linemen; Pole sprayer	6.53	.25	1%		½%	
Line equipment operators; Powdermen	6.00	.25	1%		½%	
Groundmen	4.96	.25	1%		½%	

SUPERSEDEAS DECISION

STATE: Montana

COUNTIES: Big Horn, Custer, Dawson, Richland, Roosevelt, Rosebud and Yellowstone

DECISION NUMBER: AP-286

DATE: Date of Publication

Supersedes Decision Number AP-241 dated September 22, 1972, in FR 19916

DESCRIPTION OF WORK: Building Construction, (excluding single family homes and garden type apartments up to and including 4 stories).

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ASBESTOS WORKERS	$8.15	.25	.37			
BOILERMAKERS	8.25	.30	1.00		.02	
BRICKLAYERS; Stonemasons						
Big Horn, Custer, Dawson, Rosebud and Yellowstone Counties	7.75				.02	
Richland County	7.00				.02	
CARPENTERS:						
Big Horn, Rosebud and Yellowstone Cos.						
Carpenters	5.92	.30	.35		.02	
Millwrights	6.22	.30	.35		.02	
Custer County						
Carpenters	5.65	.30	.35		.01	
Piledrivermen	5.90	.30	.35		.01	
Millwrights	6.15	.30	.35		.01	
Dawson, Richland and Roosevelt Cos.						
Carpenters	5.25	.25	.35			
Piledrivermen	5.50	.25	.35			
Millwrights	5.75	.25	.35			
CEMENT MASONS						
Big Horn and Yellowstone Counties	5.56	.30				
ELECTRICIANS:						
Big Horn, Rosebud and Yellowstone Cos.						
Electricians	6.94	.20	1%		5%	
Cable splicers	7.34	.20	1%		5%	
Custer County	5.24		1%		5%	
Dawson, Richland and Roosevelt Cos.	6.40		1%		5%	
ELEVATOR CONSTRUCTORS	5.915	.195	.20	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.195	.20	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
IRONWORKERS:						
Structural; Reinforcing; Ornamental	7.03	.40	.65		.05	
MARBLE MASONS						
Big Horn, Custer, Dawson, Richland, Rosebud and Yellowstone Counties	7.75				.02	
PAINTERS:						
Brush; Roller	5.54	.25	.20			
Steel	5.79	.25	.20			
Spray	6.32	.25	.20			
PLASTERERS						
Big Horn and Yellowstone Counties	5.61	.30				
PLUMBERS:						
Big Horn, Custer, Dawson, Richland Rosebud and Yellowstone Counties	7.30	.40	.40		1½%	
Roosevelt County	6.91	.35	.50		.04	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ROOFERS:						
Big Horn, Custer, Dawson, Richland, Rosebud and Yellowstone Counties	$5.755					
Roosevelt County	5.35					
SHEET METAL WORKERS	6.62	.27	.20		.02	
SOFT FLOOR LAYERS	5.54	.25	.20			
SPRINKLER FITTERS	7.20	.30	.50		.05	
TERRAZZO WORKERS AND TILE SETTERS:						
Big Horn, Custer, Dawson, Richland, Rosebud and Yellowstone Counties	7.75				.02	

FOOTNOTES:

a. Employer contributes 4% basic hourly rate for over 5 years' service and 2% basic hourly rate for 6 months to 5 years' service as Vacation Pay Credit. Six Paid Holidays: A through F.

PAID HOLIDAYS:

A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

MON-2-PED-1-f (2-3)

POWER EQUIPMENT OPERATORS (CONT'D):	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
HELICOPTER HOIST	7.37	.45	.45		.02	
CONVEYOR; Chip & gravel spreader	6.57	.45	.45		.02	
CRANE OPERATORS:						
To & incl. 80' w/jibs	7.03	.45	.45		.02	
81' to 130' boom	7.18	.45	.45		.02	
131' to 150' boom	7.23	.45	.45		.02	
151' boom & over	7.28	.45	.45		.02	
ELECTRIC OVERHEAD CRANE; Euclid loader & similar type; Shovels, incl. all attachs., 1 yd. to & incl. 4 yds.; Tournapull, DW 20, 21, & similar type scrapers	7.06	.45	.45		.02	
CRANE OILER-DRIVER, rubber tired	6.42	.45	.45		.02	
DRILLING MACHINE, does not incl. jack-hammer, wagon driller, or water liner; Field equipment serviceman; Winch truck with hydraulic boom	6.77	.45	.45		.02	
FORK LIFT, on construction site	6.66	.45	.45		.02	
FRONT-END LOADER, rubber-tired, over 3 yds. & incl. 5 yds.; LeTourneau, single & similar type; Motor patrol; Automatic finegrader, gurries & similar type	7.00	.45	.45		.02	
FRONT-END LOADERS, rubber-tired, over 5 yds. to & incl. 10 yds.; Scraper, twin-engine; Track-type front-end loaders, over 5 cu. yds. to & incl. 10 cu. yds.	7.10	.45	.45		.02	
FRONT-END LOADERS, rubber-tired, 10 yds. to & incl. 15 yds.; Track-type front-end loaders to & incl. 15 cu. yds.	7.20	.45	.45		.02	
FRONT-END LOADERS, rubber-tired, over 15 yds. (factory struck rating, not to include sideboards); Track-type front-end loaders, over 15 cu. yds.	7.30	.45	.45		.02	
GRADE SETTER; Herman Nelson heaters and similar type	6.33	.45	.45		.02	
LETOURNEAU, Tandem & similar type;						

MON-2-PEO-1- f (3-3)

POWER EQUIPMENT OPERATORS (CONT'D):	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
LOADERS, BARBER GREEN & similar type	6.51	.45	.45		.02	
MECHANIC AND/OR WELDER, on job site	6.97	.45	.45		.02	
MECHANIC AND/OR WELDER, HELPER; Heavy duty rotary drill helper; Oiler	6.32	.45	.45		.02	
MIXER, CONCRETE, 3 bags & under	6.43	.45	.45		.02	
MIXER, CONCRETE, 4 bags & over	6.68	.45	.45		.02	
MIXERMOBILE	6.96	.45	.45		.02	
PUMPMAN	6.37	.45	.45		.02	
SHOVELS, over 4 yds.; Stiff leg, Guy derrick; Scraper, tandem 3 engines	7.36	.45	.45		.02	
TRACTOR, rubber-tired, (Industrial)	6.31	.45	.45		.02	
TOWER CRANE	7.36	.45	.45		.02	
TRENCHING MACHINE	6.81	.45	.45		.02	

Dawson, Richland and Roosevelt Counties

MONT-5-PEO-2-3-c (1-4)

POWER EQUIPMENT OPERATORS:	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
CRUSHER CONVEYOR; Farm type tractor, up to & incl. 50 HP engine; Grade setter	$6.33	.45	.45		.02	
CRUSHER OILER & HELPER; Field equipment serviceman helper; Hot plant oiler, 100 ton per hr. or over; Mechanic and/or welder helper on job; Oiler other than shovels & cranes; Shovel oiler, 3 cy and under; Washing and screening plant oiler	6.36	.45	.45		.02	
CONCRETE BATCH PLANT OILER, UP TO & INCL. 2 MIXERS	6.39	.45	.45		.02	
AIR COMPRESSOR, SINGLE; Pumpman	6.40	.45	.45		.02	
FARM TYPE TRACTOR, OVER 50 HP ENGINE; Herman Nelson heater & similar types	6.41	.45	.45		.02	
CRANE OILER; Oiler-driver, rubber-tired cranes	6.44	.45	.45		.02	
CONVEYOR LOADER, UP TO & INCL. 42" BELT	6.45	.45	.45		.02	
BORING MACHINE, JEEP, PICKUP OR FARM TRACTOR MOUNTED; Concrete mixer, 3 bags & under; Fireman; Heavy duty drills, helper; Retort op.	6.46	.45	.45		.02	
BROOM, SELF-PROPELLED	6.54	.45	.45		.02	
AIR COMPRESSOR, 2 OR MORE; Belt finishing machine; Conveyor loader, over 42" belt; Roller, on other than hot mix oil, paving	6.57	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, 1 CY & UNDER	6.58	.45	.45		.02	

POWER EQUIPMENT OPERATORS' CONT'D:	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
CHAIN BUCKET LOADER; Chip gravel spreader, self-propelled; DW 10, 15, 20 tractor pulling roller	6.59	.45	.45		.02	
CONCRETE MIXER, 4 BAGS & OVER	6.63	.45	.45		.02	
FORM GRADER; Hoist, single drum	6.64	.45	.45		.02	
CEMENT SILO	6.66	.45	.45		.02	
FORKLIFT, ON CONSTRUCTION SITE	6.68	.45	.45		.02	
CONCRETE BATCH PLANT OILER, 3 MIXERS AND OVER	6.70	.45	.45		.02	
A-FRAME TRUCK, CRANE, WINCH TRUCK AND SIMILAR	6.71	.45	.45		.02	
HYDRALIFT AND SIMILAR TYPES; Oiler, hoist house, dams; Whirley crane oiler	6.77	.45	.45		.02	
FIELD EQUIPMENT SERVICEMAN	6.79	.45	.45		.02	
AIR DOCTOR; Asphalt paving machine; Asphalt paving machine, screed; Bit grinder; Bitum, mixer paving, travel plant; Boring machine, large; Concrete batch plant, 1 and 2 mixers; Concrete finishing machine, paving; Concrete bucket dispatcher; Concrete curing machine; Concrete float and spreader; Concrete power saw, self-propelled; Concrete travel batcher; Crusher op.; Distributor; Elevating grader; Gradeall; Heavy duty drills, all types; Hoist, 2 or more drums; Hot plant op.; Hot plant fireman; Industrial locomotive, all types; Mountain logger or similar type; Mucking machine; Pavement breaker, Emsco and similar; Power auger large truck or tractor, mounted and punch; Power mixer, single or double drum; Power saw, self-propelled, multiple cut; Pumpcrete or grout machine; Push tractor; Refrigerator plant; Roller, on blade or hot mix oil paving; Roller, 25 ton or over; Ross and similar type carriers on construction site; Rubber-tired dozer;						

POWER EQUIPMENT OPERATORS CONT'D:	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Rubber-tired frontend loader, over 1 cy to & incl. 3 cy; Scraper DW 15, 20, 21 & similar type if power unit is not used; Self-propelled sheeps foot & similar type; Shovels, incl. all attachments, under 1 cy; Track-type frontend loader, up to & incl. 5 cy; Track-type tractor with or without attachments; Trenching machine; Turnhead conveyor or head tower on batch plant; Wagner roller & similar type; Water pull when used for compaction; Washing and screening plant	6.67	.45	.45		.02	
MIXERMOBILE	6.95	.45	.45		.02	
MECHANIC AND/OR WELDER ON JOB	6.97	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 3 CY TO & INCL. 5 CY	6.99	.45	.45		.02	
AUTOMATIC FINEGRADER, GURBIES AND OTHER SIMILAR TYPES; Motor patrol; Paving mixing machine; Scraper, single engine; Slip form paver	7.00	.45	.45		.02	
CRANE, UP TO & INCL. 80' BOOM WITH JIB	7.03	.45	.45		.02	
ELECTRIC OVERHEAD CRANES; Shovels, incl. all attachments, 1 cy to & incl. 3 cy; Track-type tractor, on euclid loader	7.05	.45	.45		.02	
CONCRETE BATCH PLANT, 3 AND 4 MIXERS	7.07	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 5 cy TO & INCL. 10 cy	7.09	.45	.45		.02	
SCRAPER, TWIN ENGINE; Track-type frontend loader, over 5 cy to & incl. 10 cy	7.10	.45	.45		.02	
CENTRAL MIXING PLANTS, CONCRETE DAMS & STATIONARY	7.12	.45	.45		.02	
QUAD CAT	7.17	.45	.45		.02	
CRANE, 81' TO 130' BOOM	7.18	.45	.45		.02	

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MONT-3-PBO-2-3-c (4-5)

POWER EQUIPMENT OPERATORS CONT'D:	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
RUBBER-TIRED FRONTEND LOADER, OVER 10 CY TO & INCL. 15 CY	7.19	.45	.45		.02	
TRACK-TYPE FRONTEND LOADER, OVER 10 CY TO & INCL. 15 CY	7.20	.45	.45		.02	
CRANE, 131' TO 150' BOOM	7.23	.45	.45		.02	
SCRAPER, SINGLE OR TWIN ENGINE, PULLING BELLY DUMP TRAILER	7.25	.45	.45		.02	
CONCRETE BATCH PLANT, 5 MIXERS AND OVER	7.27	.45	.45		.02	
CRANE, 151' BOOM & OVER	7.28	.45	.45		.02	
RUBBER-TIRED FRONTEND LOADER, OVER 15 CY (Factory rating not to include sideboards)	7.29	.45	.45		.02	
TRACK-TYPE FRONTEND LOADER, OVER 15 CY	7.30	.45	.45		.02	
SHOVEL, INCL. ALL ATTACHMENTS, OVER 3 CY TO & INCL. 5 CY; Stiff leg derrick and guy derrick	7.32	.45	.45		.02	
SCRAPER, TANDEM ENGINE	7.36	.45	.45		.02	
HELICOPTER HOIST	7.37	.45	.45		.02	
CABLEWAY HIGHLINE	7.38	.45	.45		.02	
WHIRLEY CRANE	7.40	.45	.45		.02	
SHOVELS, INCL. ALL ATTACHMENTS, OVER 5 CY	7.45	.45	.45		.02	

AP-286 P. 10

LABORERS:	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Custer and Dawson Counties						
General laborers	$4.89	.35	.25		.03	
Jackhammer op.; Mechanical tampers; Pipelayers (all types); Pavement breakers; Pneumatic and electric tool ops.; Pipewrappers	5.11	.35	.25		.03	
Mason and plaster tenders	5.39	.35	.25		.03	
Big Horn, Rosebud and Yellowstone Cos.						
General laborers; Concrete laborers; Chuck tenders and nippers	5.04	.35	.25		.03	
Cement handler (sack or bulk); Jackhammer op.; Mortarman; Pipelayer (all types); Pipewrapper; Primerhouseman	5.26	.35	.25		.03	
Mason and plaster tenders	5.29	.35	.25		.03	
Richland and Roosevelt Counties						
Laborers	4.12	.15	.15		.02	
Air tool op. (jackhammer, vibrator)	4.37	.15	.15		.02	
Brick tenders	4.52	.15	.15		.02	
Mortar mixers	4.62	.15	.15		.02	
Pipelayers (concrete and clay)	4.37	.15	.15		.02	
Plasterers' tenders	4.62	.15	.15		.02	

MONT-SU-LINE CONSTRUCTION-7-3-d

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
LINE CONSTRUCTION (Jobs 69,000 volts or less)						
Cable splicer	$6.71	.25	1%		½%	
Line equipment operators; Powdermen	5.96	.25	1%		½%	
Experienced groundmen (2 yrs.); Truck drivers	4.72	.25	1%		½%	
Groundmen; Pole digger (groundman)	4.20	.25	1%		½%	
Linemen	6.07	.25	1%		½%	
(Jobs over 69,000 volts)						
Cable splicers	6.88	.25	1%		½%	
Linemen; Pole sprayer	6.53	.25	1%		½%	
Line equipment operators; Powdermen	6.00	.25	1%		½%	
Groundmen	4.96	.25	1%		½%	

SUPERSEDEAS DECISION

AP-290 P. 2

STATE: Nevada

COUNTIES: Clark (excluding the Nevada Test Site)

DECISION NO. AP-290

DATE: Date of Publication

Supersedes Decision No. AM-6197 dated November 19, 1971, in 36 FR 22110

DESCRIPTION OF WORK: Residential construction consisting of single family homes and garden type apartments up to and including 4 stories.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
ASBESTOS WORKERS	$9.63	.51	.72			
BOILERMAKERS	7.95	.60	1.00	.50	.02	
BRICKLAYERS; Stonemasons	7.42	.20		1.00	.01	
CARPENTERS:						
Carpenters	6.50	.45	.60	.80	.03	
Millwrights	6.80	.45	.60	.80	.03	
CEMENT MASONS	6.75	.42		1.30	.01	
ELECTRICIANS and Technicians	9.91	.43	1%		.05	
Calbe splicers	10.24	.43	1%		.05	
ELEVATOR CONSTRUCTORS	9.21	.345	.23	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.345	.23	2%+a		
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
GLAZIERS	9.35				.01	
IRONWORKERS						
Structural; Ornamental	8.38	.58	.625	.70	.02	
Reinforcing	8.34	.58	.625	.70	.02	
Fence Erectors	8.24	.58	.625	.70	.02	
LATHERS	7.15	.53		1.00	.01	
LINE CONSTRUCTION:						
Cable splicers	9.92	.43	1%		.05	
Linemen	10.42	.43	1%		.05	
MARBLE MASONS: Tile Setters; Terrazzo Workers	6.27	.20		1.00	.01	
PAINTERS:						
Brush and roller	8.23	.32	.25		.02	
Spray; Steel painter; Swing stage bosun chair; Paperhanger; Sand blaster; Pot tender; Tapers; Buffing; Acid staining; Sign painting	8.48	.32	.25		.02	
Paperhanging with machine; Sand blasting; Structural steel and buffing steel	8.73	.32	.25		.02	
Steeple jack	9.48	.32	.25		.02	
PLASTERERS	6.93	.42		.50	.01	
PLUMBERS; Pipefitters	8.40	.45	.95	1.60	.06	
ROOFERS	9.13	.30				
SHEET METAL WORKERS	9.47	.48	.90		.03	
SOFT FLOOR LAYERS	8.82	.40			.01	
SPRINKLER FITTERS	10.55	.25	.40		.05	

FOOTNOTE:

a. First 6 months, none; 6 months to 5 years 2%; over 5 years 4% basic hourly rate. Six Paid Holidays: A through F.

PAID HOLIDAYS:

A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
LABORERS:						
GROUP I LABORERS-general or Construction; Demolition (cleaning of brick, lumber, etc.; Dry packing of concrete, and filling of form-bolt holes; Gas and oil pipeline; Laborer-Temporary water lines (portable type); Window cleaner	$5.60	.26	.60	1.00		
GROUP II Cutting Torch Op. (Demolition); Tarman & Mortar man, Kettleman, Potman and man applying asphalt, Lay-Kold Creosote, Lime, & similar type materials	5.65	.26	.60	1.00		
GROUP III Guinea Chaser	5.68	.26	.60	1.00		
GROUP IV Fine Grader, highway & street paving, airport, runways & similar type heavy construction; Landscape gardener & nursery-man	5.70	.26	.60	1.00		
GROUP V Laborers-packing rod steel & pans	5.72	.26	.60	1.00		
GROUP VI Underground laborer including Caisson Bellowers	5.73	.26	.60	1.00		
GROUP VII Chucktender (except tunnels); Scaler; Tank scaler & cleaner	5.75	.26	.60	1.00		
GROUP VIII Cesspool Digger & Installer	5.78	.26	.60	1.00		
GROUP IX Concrete Curer-impervious membrane & oiler of all materials; Riprap stone-paver; Sandblaster (Pot Tender); Making & Caulking of all non-metallic pipe joints	5.79	.26	.60	1.00		

	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
LABORERS: (cont'd)						
GROUP X Operators & tenders of pneumatic & electric tools, vibrating machines, hand propelled trenching machines, impact wrench multi-plate & similar mechanical tools not separately classified herein; Asphalt Raker, ironer, spreader, Luteman; Buggy-mobile man; Cement dumper (on one yard or larger mixers & handling bulk cement); Concrete saw man excluding Tractor type, cutting, scoring old or new concrete; Concrete Core Cutter; Gas & oil pipeline wrapper-pot tender & form man; Operator of cement grinding machine; Roto-scraper; Tree climber, Faller, Chain saw opr., Pittsburgh Chipper & similar type brush shredders	$5.81	.26	.60	1.00		
GROUP XI Rock Slinger; Scaler (using Bos'n chair or safety belt or power tools)	5.86	.26	.60	1.00		
GROUP XII Driller and/or pavement breaker	5.89	.26	.60	1.00		
GROUP XIII Oversize concrete vibrator op., 70 lbs. & over; Laying of all non-metallic pipe, including sewer pipe, drain pipe & underground tile	5.91	.26	.60	1.00		
GROUP XIV Gas & oil pipeline wrapper - 6 inch pipe & over	5.94	.26	.60	1.00		
GROUP XV Cribber or Shorer, lagging, sheeting, trench bracing, hand guided lagging hammer; Powderman-Blaster-all work of loading holes, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading & placing	5.96	.26	.60	1.00		
GROUP XVI Steel Headboardman	6.025	.26	.60	1.00		

AP-290 P. 5

2-NEV-LAB-1-2-3-d (3-3)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
LABORERS: (cont'd)						
GROUP XVII						
Sandblaster (nozzleman); Driller (Core, Diamond, or Wagon), Joy Driller Model TW-M-2A, Gardner-Denver Model DH 163 & similar type drills	6.05	.26	.60	1.00		
GROUP XVIII						
Head Rock Slinger	6.12	.26	.60	1.00		

AP-290 P. 6

POWER EQUIPMENT OPERATORS

2-NEV-PEO-1-2-3-e (1-4)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
GROUP I						
BRAKEMAN; Compressor Operator; Engineer Oiler; Generator; Heavy Duty Repairman Helper; Pump; Signalman; Switchman	6.88	.75	1.20	.30	.02	
GROUP II						
CONCRETE MIXER OPERATOR, SKIP TYPE; Conveyor Operator; Fireman; Generator, Pump or Compressor, (2-5 inclusive); Generator, Pump or Compressor Portable Units (over 5 units, 10¢ per hour for each additional unit up to nine units); Hydrostatic Pump; Oiler Crusher, (Asphalt or Concrete Plant); Pland Operator, Generator, Pump or Compressor; Skiploader - Wheel type up to 3/4 yd. w/o attachment; Soils Field Technician; Tar Pot Fireman; Temporary Heating Plant; Trenching Machine Oiler; Truck Crane Oiler	7.12	.75	1.20	.30	.02	
GROUP III						
A-FRAME OR WINCH TRUCK; Elevator Operator (inside); Equipment Greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter Radioman (ground); Power Concrete Curing Machine; Power Concrete Saw; Power-driven Jumbo Form Setter; Ross Carrier; Stationary Pipe Wrapping and Cleaning Machine	7.36	.75	1.20	.30	.02	
GROUP IV						
ASPHALT PLANT FIREMAN; Boring Machine; Boxman or Mixerman (Asphalt or Concrete); Chip Spreading Machine; Concrete Pump (small portable); Bridge Type Unloader and Turntable; Dinkey Locomotive or Motorman (up to and including 10 tons); Equipment Greaser (grease truck); Helicopter Hoist; Highline Cableway Signalman; Hydra-Hammer - Aero Stomper; Power Sweeper; Roller (compacting); Screed (Asphalt or Concrete); Trenching Machine (up to 6 ft.)	7.47	.75	1.20	.30	.02	

2-NEV-PEO-1-2-3-e (2-4)

POWER EQUIPMENT OPERATORS (Cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
GROUP V ASPHALT PLANT ENGINEER; Concrete Batch Plant; Backhoe (up to and incl. 3/4 yd.); Bit Sharpener; Concrete Joint Machine (Canal and similar type); Concrete Planer; Deck Engine; Forklift (under 5 ton capacity); Machine Tool; Maginnis Internal Full Slab Vibrator; Mechanical Berm. curb or gutter concrete or asphalt); Mechanical Finisher (concrete-Clary-Johnson-Bidwell or similar); Pavement Breaker; Road Oil Mixing Machine; Roller (asphalt or finish); Rubber-tired Earth Moving Equipment, (single engine, up to and including 25 yd. struck); Self-propelled Tar Pipelining Machine; Slip Form Pump (power-driven hydraulic lifting device for concrete forms); Tugger Hoist (1 drum); Tunnel Locomotive (over 10 and up to and incl. 30 tons); Stinger Crane (Austin-Western or similar type); Skiploader Crawler and Wheel type over 3/4 yds. & up to & incl. 1 1/2 yds.); Tractor - Bulldozer, Tamper, Scraper (single engine, up to 100 h.p., flywheel and similar types, up to and including D-5 and similar types)	$7.66	.75	1.20	.30	.02	
GROUP VI ASPHALT OR CONCRETE SPREADING (Tamping or Finishing); Asphalt Paving Machine (Barber Greene or similar type); BHL Lima Road Factor or similar; Bridge Crane; Pipe Laying Machine (Cast in Place); Combination Mixer and Compressor (Gunite work); Concrete Pump (truck mounted); Concrete Mixer; Crane (up to and including 25 tons); Crushing Plant; Elevating Grader; Forklift (over 5 tons); Grade Checker; Grade-all; Grouting Machine; Heading Shield; Heavy Duty Repairman; Hoist (Chicago Boom & similar type); Kolman Belt Loader & similar type; LeTourneau Blob Compactor or similar type; Lift Slab Machine (Vagtborg and similar types)						

2-NEV-PEO-1-2-3-e (3-4)

POWER EQUIPMENT OPERATORS (Cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
GROUP VI (Cont'd) Lift Mobile; Loader (Athey, Euclid, Sierra and similar type); Material Hoist; Mucking Machine (1/4 yd. - rubber-tired, rail or track type); Pneumatic Concrete Placing Machine (Hackley-Presswell or similar type); Pneumatic Heading Shield (Tunnel); Pumpcrete Gun; Rotary Drill (excluding Caisson type); Rubber-tired earth moving equip. op. (single engine - Caterpillar, Euclid, Athey Wagon, & similar types with any and all attachments over 25 yds. & up to & incl. 50 cu. yds. struck); Rubber-tired Scraper (self-loading - Paddle wheel type - John Deere, 1040 & similar single unit); Skiploader (Crawler and Wheel type - over 1 1/2 yds., up to & incl. 6 1/2 yds.); Surface Heaters and Planer; Rubber-tired Earth Moving Equip., multiple engine (up to & incl. 25 yds. struck); Trenching Machine (over 6 ft. depth capacity, manufacturers rating); Tower Crane; Tractor Compressor Drill Combination; Tractor (any type larger D-5 - 100 Fly wheel h.p. & over, or similar) (Bulldozer, Tamper, Scraper and Push Tractor, single engine); Tractor (Boom attachments); Traveling Pipe Wrapping, Cleaning and Bending; Tunnel Locomotive (over 30 ton); Shovel, Backhoe, Dragline, Clamshell (over 3/4 yd. & up to 5 cu. yd. M.R.C.;	$7.76	.75	1.20	.30	.02	
GROUP VII CRANE (over 25 ton up to & incl. 100 tons M.R.C.; Derrick Barge, Dual Drum Mixer; Hoist, Stiff Legs, Guy Derrick, or similar type, up to & incl. 100 tons; Monorail Locomotive (Diesel, gas or electric); Motor Patrol - Blade Op. (single engine); Multiple Engine Tractor Op. (Euclid and similar type, except Quad 9 Cat); Rubber-tired Earth Moving Equip. (Single engine over 50						

POWER EQUIPMENT OPERATORS (Cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
GROUP VII (Cont'd) yds. struck; Rubber-tired Earth Moving Equip. (multiple engine, Euclid, Caterpillar and similar) (over 25 yds. & up to 50 cu. yds. struck); Tractor Loader Op. (Crawler & wheel type over 6 1/2 yds.); Tower Crane Repairman; Shovel, Backhoe, Dragline, Clamshell Op. (over 5 cu. yds., MRC; Woods Mixer and similar Pugmill Equip.; Heavy Duty Repairman - Welder Combination	$7.86	.75	1.20	.30	.02	
GROUP VIII Auto Grader; Automatic Slip Form; Crane (over 100 tons); Hoist, Stiff Legs, Guy Derricks or similar types (capable of hoisting 100 tons or more); Mass Excavator (less than 750 cu. yds.; Mechanical Finishing Machine; Mobile Form Traveler; Motor Patrol (Multi engine); Pipe Mobile Machine; Rubber-tired Earth Moving Equip. (multiple engine, Euclid, Caterpillar and similar type over 50 cu. yds. struck); Rubber-tired Self Loading Scraper (Paddle Wheel - Auger type self-loading (2 or more units); Tandem Equip. (2 units only); Tandem Tractor (Quad 9 or similar-type); Tunnel Mole Boring Machine; Rubber-tired Scraper (pushing w/o Push Cat, Push-Pull (50¢ per hour additonal	8.00	.75	1.20	.30	.02	
GROUP IX Canal Liner; Canal Trimmer; Helicopter Pilot; Highline Cableway; Wheel Excavator (over 750 cu. yds.); Remote Controlled Earth Moving Equip. ($1.00 per hour additional to base rate)	8.10	.75	1.20	.30	.02	

TRUCK DRIVERS:	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
GROUP I Drivers of Dump Trucks (less than 12 yds. water level); Drivers of Trucks (legal payload capacity less 15 tons); Water & Fuel Truck Drivers under 2500 gals.; Pickup Drivers; Service Truck Driver--Teamster Equipment (highest rate paid for dual craft operation) Truck Repairman Helper; Drivers or Busses on Job Site used for transportation of up to 25 passengers	$7.20	.25	.30			
GROUP II Drivers of Dump Trucks 12 yds. but less than 16 yds. water level; Drivers of Trucks--legal payload capacity between 15 & 20 tons; Gas & Oil Pipeline Working Truck Driver, including winch truck & all sizes of trucks; water & Fuel Truck Drivers 2500 gals. to 4000 gals.; Truck Greaser & Tireman; Drivers of Busses (on job site used for transportation or more than 25 passengers); Road Oil Spreading by Truck Drivers; Time spent Spreading Oil	7.31	.25	.30			
GROUP III Drivers of Transit-mix Trucks, under 3 yds. Dumpcrete Truck, less than 6½ yds. water level	7.36	.25	.30			

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
TRUCK DRIVERS (CONT'D)						
GROUP IV Drivers of Dump Trucks, 16 yds. up to & including 22 yds. water level; Drivers of Trucks, legal payload capacity, 20 tons but less than 30 tons; Drivers of Euclid-type Spreader Trucks; Drivers of Dumpster Trucks; Drivers of Transit-mix Trucks, 3 yds., but less than 6 yds.; Dumpcrete Truck, 6½ yds. water level & over; Fork Lift Driver; Ross Carrier Driver--Highway Water & Fuel Truck Drivers 4000 but less than 6000 gals.	7.52	.25	.30			
GROUP V Drivers of Transit-mix Trucks, 6 yds. or more; Truck Repairman; Drivers of Dump Trucks, over 22 yds. water level; Drivers of Trucks, legal payload capacity, 20 tons & over; Drivers of Fuel & Water Trucks, 6000 gals, & over	7.70	.25	.30			
GROUP VI D.W. & similar type equipment; D.W. 10 & D.W. 20 Euclid-type equipment LeTorneau Pulls, Terra Cobras & similar types of equipment, also PB & similar type trucks when performing work within Teamster jurisdiction, regardless of types of attachment including power units pulling off Highway Belly Dumps in tandem	8.20	.25	.30			

SUPERSEDEAS DECISION

AP-284 P. 2

STATE: Oregon
DECISION NUMBER: AP-284
COUNTIES: Statewide
DATE: Date of Publication
Supersedes Decision No. AP-271 dated March23, 1973, in 38FR 7750
DESCRIPTION OF WORK: Building Construction (excluding single family homes and garden type apartments up to and including 4 stories), heavy and highway construction and dredging.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	1/Other
ASBESTOS WORKERS	7.85	.35	.60		.06	
BOILERMAKERS	6.95	.60	1.00	.50	.02	
BRICKLAYERS; Stonemasons						
Clackamas, Clatsop, Columbia, Gilliam, Hood River, Multnomah, Morrow, Sherman, Tillamook, Wasco (north of the City of Maupin), Washington, N½ Yamhill Cos.	7.90	.35	.35		.02	
North ½ of Lincoln, Marion, Polk, S½ of Yamhill Cos.	7.40	.35	.35		.02	
Baker, North 1/2 of Malheur, Union, Umatilla, Wallowa Cos.	7.85	.30				
Benton, Coos, Crook, Curry, Deschutes, Douglas, Grant, Harney, Jackson, Jefferson, Josephine, Klamath, Lake, Lane, South 1/2 of Lincoln, Linn, South 1/2 of Malheur, Wasco (incl. the City of Maupin & south thereof), Wheeler Cos.	7.00	.45	.45		.02	
CARPENTERS:						
Acoustical & Drywall Applicators; Automatic Nailing Machine; Carpenters; Form Strippers; Manhole Builders	6.78	.55	.40	.35	.03	
Piledrivermen, Bridge, Dock & Wharf Builders	6.88	.55	.40	.35	.03	
Floor Layers & Finishers; Stationary Power Saw Operators	6.91	.55	.40	.35	.03	
Boom Men	6.98	.55	.40	.35	.03	
Millwrights & Machine Erectors	7.03	.55	.40	.35	.03	
CEMENT MASONS:						
Cement Masons	6.81	.35	.35		.01	
Mastic Worker; Composition Workers; Gunnite Man; Power Machinery Operator	6.935	.35	.35		.01	
DRYWALL TAPERS	6.10	.32	.15	.50	.015	
ELECTRICIANS:						
Malheur County						
Electricians	7.45	.30	1%		2/10%	
Cable Splicers	8.195	.30	1%		2/10%	
Baker; Gilliam; Grant; Morrow; Umatilla; Union; Wallowa; Wheeler Cos.						
Electricians	7.93	.35	1%		.02	
Cable Splicers	8.33	.35	1%		.02	
Coos; Curry; Lincoln; Those portions of Douglas & Lane Cos. lying west of a line north & south from the NE corner of Coos Co. to the SE corner of Lincoln Co.						
Electricians	$8.21	.25	1%		.04	
Cable Splicers	9.03	.25	1%		.04	
Benton; Crook; Deschutes; Jefferson; Lane (except coast portion); Linn; Marion; Polk; S 1/2 of Yamhill Cos.						
Electricians	8.50	.25	1%		.04	
Cable Splicers	8.95	.25	1%		.04	
Clackamas; Clatsop; Columbia; Hood River; Multnomah; Sherman; Tillamook; Wasco; Washington; N½ of Yamhill Cos.						
Electricians	7.75	.25	1% +.30		.02	
Cable Splicers	8.35	.25	1% +.30		.02	
Harney; Jackson; Josephine; Klamath; Lake; That portion of Douglas lying east of a line running north & south from the corner of Coos Co. to the southeast corner of Lincoln Co.						
Electricians	7.70	.25	1%		.04	
Cable Splicers	8.25	.25	1%		.04	
ELEVATOR CONSTRUCTORS	8.01	.345	.22	2% + a		
ELEVATOR CONSTRUCTORS' HELPERS	70%JR	.345	.22	2% + a		
ELEVATOR CONSTRUCTORS' HELPERS (PROB.)	50%JR					
GLAZIERS	6.82	.26	.20	4%	.01	
IRONWORKERS:						
Reinforcing; Structural; Fence Erectors; Ornamental; Riggers; Signal Men	7.31	.48	.65	.25	.05	
LATHERS						
Clackamas, Clatsop, Columbia, Gilliam, Harney, Hood River, Morrow, Multnomah, Sherman, Tillamook, Wasco, Washington, Yamhill Cos.	6.60	.15			.01	
MARBLE SETTERS						
Clackamas, Clatsop, Columbia, Gilliam, Hood River North 1/2 of Lincoln, Marion, Multnomah, Morrow, Polk, Sherman, Tillamook, Wasco (north of the City of Maupin), Washington, Yamhill Cos.	7.90	.35	.35		.02	
Baker, North 1/2 of Malheur, Union, Umatilla; Wallowa Cos.						
Outside	7.85	.30				
Inside	7.65	.30				
Benton, Coos, Crook, Curry, Deschutes, Douglas, Grant, Harney, Jackson, Jefferson, Josephine, Klamath, Lake,						

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	C
Lane, South 1/2 of Lincoln, Linn, South 1/2 of Malheur, Wasco (incl. the City of Maupin & south thereof), Wheeler Cos.	$7.00	.45	.45		.02	
PAINTERS:						
Brush	7.05	.30	.20		.015	
Spray	7.30	.30	.20		.015	
High Work over 100'	7.55	.30	.20		.015	
High Towers, ground to 100'	7.20	.30	.20		.015	
High Towers, ground to 300'	7.55	.30	.20		.015	
High Towers, ground to over 300'	8.05	.30	.20		.015	
PLASTERERS	6.95	.45	.45		.01	
PLUMBERS; STEAMFITTERS:						
Baker; Harney (except NW portion); Malheur Cos.	6.58	.28	.30		.05	
Grant (except SW corner); Morrow; Umatilla; Wallowa; Union Cos.	7.52	.26	.55	.47	.06	
N. 1/2 of Benton, Lincoln, & Linn Cos.; Marion; Polk; S 1/2 of Tillamook, Yamhill Cos.	6.55	.46	.65	1.00	.08	
Clackamas; Clatsop; Columbia; Gilliam; Hood River; Jefferson; Multnomah; Sherman; N. 1/2 of Tillamook; Wasco; Wheeler; Washington; & N. 1/2 of Yamhill	7.36	.59	.65		.07	
Coos; Curry; West Coast portion of Douglas Co; Lane (City of Florence)	7.74	.41	.52		.0175	
Lane (except for City of Florence); Douglas (except coast portion); Crook; Deschutes; N.W. portion of Harney; Northern portions of Klamath and Lake Cos.; S. 1/2 of Lincoln, Linn, Benton and Jefferson Cos.; & S.W. corner of Grant County	7.73	.41	.62		.02	
Remainder of Klamath & Lake Cos.	7.06	.45	.55	.75	.05	
Jackson; Josephine Cos.	7.05	.40	.50	.43	.02	
ROOFERS						
Clackamas, Clatsop, Columbia, Gilliam, Hood River, Jefferson, Multnomah, Sherman, Tillamook, Wasco Cos.						
Roofers	6.95	.45	.46			
Coal Tar	7.45	.45	.46			
Coal Tar in confined areas	7.70	.45	.46			
Wallowa County	6.65					
Coos, Crook, Curry, Deschutes, Douglas, Harney, Jackson, Josephine, Klamath, Lake, Lane, Malheur Cos.	6.53	.25				

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Oth
SHEET METAL WORKERS						
Benton, Clackamas, Clatsop, Columbia, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Lincoln, Linn, Marion, Morrow, Multnomah, Polk, Sherman, Tillamook, Wasco, Washington, Wheeler, Yamhill Cos.	6.95	.33	.24	.28	.02	
Malheur County	7.06	.27	.20		.02	
Baker, Umatilla, Union, Wallowa Cos.	6.50	.22	.30			
Coos, Curry, Douglas, Lane Cos.	7.85	.22	.34		1/22	
Jackson, Josephine	6.73	.22	.30			
SOFT FLOOR LAYERS	6.75	.35	.45	b	.05	
SPRINKLER FITTERS	8.70	.30	.50		.05	
TILE SETTERS & TERRAZZO WORKERS						
Clatsop, Clackamas, Columbia, Gilliam, Harney, Hood River, N. 1/2 of Lincoln, Marion, Morrow, Multnomah, Polk, Sherman, Wasco (north of the City of Maupin), Washington, Tillamook, Yamhill Cos.	6.95	.25	.24			
Baker, North 1/2 of Malheur, Union, Umatilla, Wallowa Cos.	7.18	.30				
Benton, Coos, Crook, Curry, Deschutes, Douglas, Grant, Jackson, Jefferson, Josephine, Klamath, Lake, Lane, South 1/2 of Lincoln, Linn, South 1/2 of Malheur, Wasco (incl. the City of Maupin and south thereof), Wheeler Cos	6.95	.35	.35			
TILE SETTERS' HELPERS	6.04	.25				
WELDERS; RIGGERS: Receive rate prescribed for craft performing operation to which welding is incidental.						

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:

a. Employer credits 4% basic hourly rate of employee with over 5 years' service, 2% basic hourly rate from 6 months to 5 years' service to Vacation Plan. Six Paid Holidays: A through F.

b. 4% of all gross wages to be placed to the credit of employees with less than one year of service. 6% to employees with more than one year of service

POWER EQUIPMENT OPERATORS

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP I						
ASSISTANT CONVEYOR; Oiler, including plant and crusher; Crusher Feederman; Deckhand; Self-propelled Scaffolding; Guard Rail Punch Oiler; Pump under 4" Brakeman Switchman; Parts Man (Tool Room)	$6.40	.45	.60	.25		
GROUP II						
BLADE, PULLED TYPE; Truck Crane Oiler-driver, 25 ton capacity or over; Fireman, all equipment; A-Frame Truck, single drum; Tugger or Coffin type Hoist, any power; Drill Helper; Auger Oiler; Boatman; Forklift or Lumber Stacker; Temporary Heating Plant; Grade Oiler, required to check grade; Grade Checker; Tar Pot Fireman; Tar Pot Fireman (power agitated); H. D. Repairman Helper; Welder's Helper; Fireman Helicopter Radio-man (ground); Roller, Rock	6.54	.45	.60	.25		
GROUP III						
PLANT FIREMAN; Pugmill; Truck Mounted Asphalt Spreader, with screed; Compressor, any power, under 1,000 cu. ft. total capacity; Mixer Box Concrete Plant; Concrete Conveyor; Cement Hog; Concrete Saw, self-propelled unit; Wire Mat Machine or Booming Machine; Concrete Curing Machine, self-propelled; Bucket Elevator Loader, Barber Greene and similar type; Hydraulic Pipe Press; Pump any power, 4" and over; Hydrostatic Pump; Motorman; Ballast Jack Tamper; Bell Boy, phones, etc.; Tamping Machine, mechanical self-propelled; Hydrographic Seeder Machine, straw, pump or seed; Broom Operator, self-propelled; Air Filtration Equipment; Welding Machine	6.64	.45	.60	.25		
GROUP IV						
SCREED; Compactor, including vibratory; Compressor, over 1,000 cu. ft. total capacity; Concrete Mixer, single drum, under 5 bag capacity;						

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP IV (Cont'd)						
Concrete Cooling Machine; Combination Mixer and Compressor, Gunnite work; Helicopter Hoist; Fork Lift, over 5 tons; Lull Hi-lift or similar type, 20 ft. or over; Service Oiler (Greaser); Hydra Hammer or similar types; Pavement Breaker; Pump, more than 3, any size; Locomotive, under 40 tons; Roller, Oiling, CTB	$6.80	.45	.60	.25		
GROUP V						
CURB MACHINE, MECHANICAL BERM, CURB AND/OR CURB AND GUTTER: Wagner Pactor or similar type (without blade); Batch Plant Material Control; Power Jumbo, setting slip forms, etc. in tunnels; Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Hoist, single drum; Elevator, Diesel, Gas, Engineer; Chip Spreading Machine; Lime Spreading Sweeper (Wayne Type) self-propelled; Tractor, rubber-tired 50 H. P. Flywheel and under; Trenching Machine, maximum digging capacity 3 ft. depth	6.82	.45	.60	.25		
GROUP VI						
ASPHALT PLANT; Asphalt Paver; Maginnis, internal full slab vibrator; Concrete finishing Machine, Clary, Johnson, Bidwell, Burgess, bridge deck or similar type; Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine; Concrete Planer; Cast in place pipe laying machine; Concrete Paving Machine; Concrete Spreader; Loaders, Rubber-tired type, 2 1/2 cu. yds. and under; Rock Spreader, self-propelled	6.90	.45	.60	.25		
GROUP VII						
ROLLER, ASPHALT; Concrete Mixer, single drum, 5 bag capacity and over; Beltcrete; Pumpcrete; Cement pump, Fuller-Kenyon and similar; Grouting Machine; Concrete Pump;						

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP VII (Cont'd) Tower Mobile; A-Frame Truck, double drums; Boom Truck; Churn Drill and Earth Boring Machine; Hydraulic Backhoe, wheel type 3/8 cu. yds. and under with or without front end attachments 2 1/2 cu. yds. and under (Ford, John Deere, Case type); Elevating Grader, Tractor and towed requiring operator or grader; Pot Rammer; Ballast Regulator; Ballast Tamper Multi-Purpose; Track Liner; Tie Spacer, Shuttle Car; Locomotive, 40 tons and over	$6.96	.45	.60	.25		
GROUP VIII DIESEL-ELECTRIC ENGINEER, PLANT OR FLOATING; Batch Plant and/or wet mix, one and two drums; Generator; Diesel-Electric Engineer; Belt Loaders, Kolman and Ko Cal types	7.06	.45	.60	.25		
GROUP IX BULLDOZER; Drill Cat; Side-Boom Cat; Compactor, with blade; Chicago Boom and similar types; Lift Slab Machine; Boom Type lifting device, 5 tons capacity or less; Cherry picker or similar type crane-hoist 5 ton capacity or less; Grizzley; Crusher Plant; Boring Machine; Surface Heater & Planer; Hydraulic Backhoe, truck type 3/8 cu. yds. Loader, front end and overhead 2 1/2 cu. yds. and under 4 cu. yds.; Pipe Cleaning Machine; Pipe Doping Machine; Pipe Bending Machine; Pipe Wrapping Machine; Bolt Threading Machine; Drill Doctor; including bit grinder; H.D. Mechanic; H.D. Welder; Machine Tool Operator; Stationary Drag Scraper; Tractor Rubber-tired over 50 H.P. Flywheel; Tractor, Rubber tired with boom attachments; Trenching Machine maximum digging capacity over 3 ft. depth	7.12	.45	.60	.25		
GROUP X BULLDOZER, TWIN-ENGINE (TC 12 and similar type); Cable-Plow; Compactor,						

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP X (Cont'd) Multi-engine; Driller-Percussion, Diamond, Core, Cable, Rotary and similar types Jack Operator Elevating Barges; Barge Operator, self-unloading; Combination H.D. Mechanic-Welder; Welder-Certified; Rubber tired Dozers & Pushers (Michigan, Cat, Hough type)	$7.18	.45	.60	.25		
GROUP XI MIXER MOBILE: Crane, 25 tons and under; Shovel, Dragline; Clamshell, Hoe, etc., under 1 cu. yd.; Gradeall, under 1 cu. yd.; Mucking Machine	7.20	.45	.60	.25		
GROUP XII BLADE; Batch Plant and/or wet mix, 3 units or more; Hoist, 2 drum; Hoist, 3 or more drums; Elevating Loader, Athey and similar types; Piledriver (not crane type); Rubber-tired Scraper, single engine, single scraper; Scraper-Self-Loading, paddle wheel ladder type; Rubber-tired Scraper, twin engine; Rubber-tired Scraper, with push-pull attachments; Blade Mounted Spreaders, Ulrich and similar types; Shield Operator	7.26	.45	.60	.25		
GROUP XIII BLADE, FINISH (Working with either red or blue tops); Blade, Electronically controlled by wire or laser beams; Blade, Multi-engine; Concrete Paving and Road Mixer; Bridge Crane, Locomotive, Gantry, Overhead; Derrick, under 100 tons; Hoist, Stiff leg, Guy Derrick or similar type 50 tons and over; Cableway, up to 25 tons; Crane, over 25 tons and including 40 tons; Tower Crane; Piledriver (not crane type); Floating Clamshell, etc., under 3 cu. yds.; Floating Crane (Derrick Barge), less than 30 tons; Hydraulic Backhoe, truck type over 3/8 cu. yds., Elevating Grader, operated by tractor, Sierra, Euclid or similar types; Back-Filling Machine; Shovel, etc., 1 cu. yd., but less than 3 cu. yds.; Gradeall, 1 cu. yd., and over; Back Filling Machine	7.34	.45	.60	.25		

1-ORE-PBO-1-2-3-c (5-5)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP XIV RUBBER-TIRED SCRAPER WITH TANDEM SCRAPER	$7.50	.45	.60	.25		
GROUP XV ROCK HOUND; Loader, 4 cu. yds. but less than 6 cu. yds.	7.66	.45	.60	.25		
GROUP XVI AUTO GRADER (i.e. CMD) or TRIMMER; Tandem Bulldozer, Quad-nine and similar type; Automatic Concrete Slip Form Paver; Concrete Canal Liner; Cableway, 25 tons and over; Crane, over 40 tons and including 100 tons; Whirley, 80 tons and under; Floating Clamshell, etc., 3 cu. yds. and over; Floating Crane (Derrick Barge), 30 tons but less than 80 tons; Loader, 6 cu. yds., but less than 8 cu. yds., Loader 8 cu. yds., but less than 12 cu. yds.; Rubber-tired Scraper, with Tandem Scrapers, Multi-engine; Shovel, etc., 3 cu. yds. but less than 5 cu. yds.; Wheel Excavator, under 750 cu. yds. per hour	7.84	.45	.60	.25		
GROUP XVII CRANE, Over 100 tons and including 200 tons; Whirley over 80 tons and including 150 tons; Floating Crane (Derrick Barge), 80 tons but less than 150 tons; Loader, 12 cu. yds. and over; Shovel, etc., 5 cu. yds. and over; Canal Trimmer	7.98	.45	.60	.25		
GROUP XVIII CRANE, over 200 tons; Whirley, 150 tons and over; Floating Crane 150 tons but less than 250 tons; Wheel Excavator, over 750 cu. yds. per hour; Band Wagons, in conjunction with wheel excavator	8.16	.45	.60	.25		
GROUP XVIV HELICOPTER; When used in erecting work; Floating Crane 250 tons and over; Remote controlled earth moving equipment (no one operator shall operate more than two pieces of moving equipment at one time); Underwater Equipment, remote or otherwise	8.30	.45	.60	.25		

1-ORE-LAB-1-2-3-d (1-2)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LABORERS GROUP I Asphalt plant laborers; Asphalt spreaders; Batch weighman; Broomers; Brush burner & cutters; Car & truck loaders; Carpenter tender; Change-House man or dry shack men; Choker setters; Cleam up laborers; Concrete laborers; Crusher feeders; Culvert, hand labor; Curing, concrete; Demolition, wrecking, & moving laborers; Driller helpers; Dumpers, Road oiling crew; Dumpmen (for grading crew); Elevator feeders; Fence builder (incl. Guard rail, Median rail, Reference post, Guide post, Right-of-way marker); Fine graders; Form strippers (not swinging stages); General laborers; Landscaping or planting laborers; Leverman on aggregate spreader (Flaherty & similar types); Loading spotters; Material yard man (incl. electrical); Pittsburgh chipper operator or similar types; Powderman helper; Railroad track laborers; Ribbon setters (incl. steel forms); Rip Rap man (hand placed); Road pump tender; Sewer labor; Skipmen; Signalman; Slopers; Spraymen; Stake chaser-Stake setter-Grade checker; Stockpiler; Timber faller & bucker (hand labor); Toolroom man (at job site) Tunnel bull gang (above ground); Weigh man-crusher aggregate (when used)	$5.60	.45	.50	.25	.02	

LABORERS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
GROUP II						
Applicator (incl. pot tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Burners; Choker splicer; Clary power spreader & similar types; Cleam-up nozzleman; Greencutter (Concrete rock, etc.); Concrete power buggyman; Demolition & wrecking charred materials; Gunite nozzleman tender; Gunite or sand blasting pot tender; Handlers or mixers of all materials of an irritating nature (incl. cement & lime); Manhole builder; Powertool op., incls. but not limited to: Chipping Guns; Jackhammer, Paving breakers, Post hole digger, Air, Gas, or Electric, Tampers, Vibrating screed, Vibrators (less than 4" in diameter); Ribbon setter, head; Rip rap man (head), Hand placed; Sand blasting (wet); Sewer timbermen; Timber buckers & fallers, Brush cutters (power saw); Tunnel-Muckers, Brakemen, Concrete crew, Bull gang (underground)	$5.75	.45	.50	.25	.02	
GROUP III						
Asphalt rakers; Bid grinder; Concrete saw op.; Drill doctor, Drill operator, Air tracks, Cat drills, Wagon drills, Rubber-mounted drills, & other similar types: Gunite nozzleman; High scalers, stiprrers & drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual or normal drilling, blasting, barring-down, or sloping & stripping); Powdermen; Power saw ops.(Bucking & falling merchantable logs); Pumpcrete nozzlemen; Sand blasting (Dry); Sewer pipe layers; Track liners, Anchor machines, Ballast regulators, Multiple tampers, Power jacks; Tugger op.; Tunnel--Chuck tenders, Nipper & Timbermen; Vibrators (4" & larger); Water blaster	5.90	.45	.50	.25	.02	
GROUP IV						
Tunnel miners; Tunnel powderman	6.05	.45	.50	.25	.02	

TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
Battery rebuilders; bus or man-haul drivers; Concrete buggies (power operated); Dump trucks, side, end & bottom dumps, incl. semi-trucks & trains or combin. thereof: 6 cu. yds. & under; Lift jitneys, fork lifts (all sizes used in loading, unloading & transporting material on job site); Loader and/or leverman on concrete dry batch plant (manually operated); Pilot car; Solo flat bed & misc. body trucks, 0-10 tons; Truck helper; Truck mechanic helper; Warehouseman (warehouse parts, tool men & parts chaser, checker & receivers); Water wagons (rated capacity); up to 1600 gals.	6.23	.40	.45	.25		
"A" frame or hydra-lift truck w/load bearing surface; Lubrication man, fuel truck driver, tireman, wash rack, steam cleaner or combin.; Team drivers	6.28	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi-trucks & trains or combin. thereof: over 6 cu. yds. incl. 10 cu. yds. ; Slurry truck driver or leverman; Transit mix & dry or wet trucks: 5 cu. yds. & under; Tireman (full-time basis); Water wagons (rated capacity): 1600 to 3000 gals.	6.33	.40	.45	.25		
Flaherty spreader driver or leverman; Low bed equipment, flat bed semi-trailer, truck & trailer or doubles transporting equipment or wet or dry materials; Lumber carrier driver-Straddle carrier (used in loading, unloading and transporting of materials on job site); Oil distributor driver or leverman; Water wagons (rated capacity: 3000 to 5000 gals.	6.38	.40	.45	.25		
Dumpster or similar equipment, all sizes; Transit mix & wet or dry mix trucks; Over 5 cu. yds. & incl. 7 cu. yds.	6.43	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains or combin. thereof: over 10 cu. yds. & incl. 20 cu. yds.; Transit mix & dry or wet mix trucks: over 7cu. yds. & incl. 9 cu. yds.; Truck mechanic--welder--body repairman; Water wagons (rated capacity): 5000 to 7000 gals.	6.53	.40	.45	.25		

	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Other
Dump trucks, side end & bottom dumps, incl. semi-trucks & trains or combin. thereof: over 20 cu. yds. & incl. 30 cu. yds.; Transit mix & wet or dry mix trucks: over 9 cu. yds. & incl. 11 cu. yds.; Water Wagons (Rated capacity); over 7000 gals to 10,000 gals.	6.63	.40	.45	.25		
Dump trucks, side, end & botton dumps, incl. semi trucks & trains or combin. thereof: over 30 cu. yds. & incl. 40 cu. yds.; Transit mix & wet or dry mix trucks: over 11 cu. yds. and incl. 13 cu. yds.; Wager Wagons (rated capacity): over 10,000 gals. to 15,000 glas.	6.73	.40	.45	.25		
Dump trucks, side, end & botton dumps, incl. semi-trucks & trains or combin. thereof: over 40 cu. yds. & incl. 50 cu. yds.; Transit mix and wet or dry mix trucks: over 13 cu. yds. and incl. 15 cu. yds.	6.83	.40	.45	.25		
Dump trucks, side, end & botton dumps, incl. semi-trucks & trains or combin. thereof: over 50 cu. yds. & incl. 60 cu. yds.	7.00	.40	.45	.25		
Dump trucks, side, end & botton dumps, incl. semi-trucks & trains or combin. thereof: over 60 cu. yds. & incl. 70 cu. yds.	7.10	.40	.45	.25		
Dump trucks, side, end & botton dumps, incl. semi truck & trains or combin. thereof: over 70 cu. yds. and incl. 80 cu. yds.	7.20	.40	.45	.25		
Dump trucks, side, end & botton dump, including semi trucks & trains or combin. thereof: over 80 cu. yds. & incl. 90 cu. yds.	7.30	.40	.45	.25		
Dump trucks, side, end & botton dump, incl. semi-trucks and trains or combin. thereof: over 90 cu. yds. & incl. 100 cu. yds.	7.40	.40	.45	.25		
Drivers and Helpers (handling sacked cement add $.15 per hour).						
Winch truck - takes classification of truck on which winch is mounted.						

	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	D
Dredging:						
Dipper Leverman:						
(a) 5 yards and under	$7.89	.45	.60	.25		
(b) Over 5 yards	8.44	.45	.60	.25		
Leverman, Hydraulic	7.20	.45	.60	.25		
Assistant Engineer (Electric Generator Operator for Primary Pump; Power Barge or Dredge)	7.18	.45	.60	.25		
Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen	7.13	.45	.60	.25		
Engineer Welder; Craneman	7.08	.45	.60	.25		
Fireman; Oiler	6.74	.45	.60	.25		
Assistant Mate (Deckhand)	6.64	.45	.60	.25		

LINE CONSTRUCTION - OREGON d (1-1)

	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	D
Cable Splicers Leadman Pole Sprayer	$ 8.60	.25	1%		1/2%	
Lineman; Pole Sprayer; Heavy Line Equipment Man; Certified Lineman Welder	7.76	.25	1%		1/2%	
Tree Trimmer	7.00	.25	1%		1/2%	
Line Equipment Man	6.67	.25	1%		1/2%	
Head Groundman (Chipper); Head Groundman; Powderman; Jackhammer Man	5.82	.25	1%		1/2%	
Groundman; Tree Trimmer Helper	5.49	.25	1%		1/2%	
Hole Digger	5.25	.25	1%		1/2%	

SUPERSEDEAS DECISION

STATE: Washington
DECISION No. AP-283
COUNTY: Statewide
DATE: Date of Publication

Supersedes Decision Number AP-263 dated March 9, 1973 in FR 6630

DESCRIPTION OF WORK: Building construction (excluding single family homes and garden type apartments, up to and including 4 stories), heavy and highway construction and dredging.

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ASBESTOS WORKERS						
Chelan, Clallam, Douglas, Grays Harbor, Island, Jefferson, King, Kitsap, Kittitas, Lewis, Mason, Okanogan, Pacific (northern part), Pierce, San Juan, Skagit, Snohomish, Thurston, Whatcom and Yakima Counties	8.27	.25	.30			
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania & Wahkiakum Counties	7.85	.35	.60		.06	
Remaining Counties	8.15	.25	.37			
BOILERMAKERS	7.45	.60	1.00	.50	.02	
BRICKLAYERS						
Chelan, Douglas & Okanogan (Except area of Grand Coulee Dam)	7.05	.35				
Kittitas and Yakima Counties	7.00	.35	.40			
Clallam, Island, Jefferson, King, Kitsap, Snohomish & Skagit (south of the Cities of Burlington, Sedro-Woolley & Concrete) Counties	7.78	.40	.35		.02	
Grays Harbor County	6.50		.35			
Pierce County	7.99	.35	.35		.02	
Lewis, Mason & Thurston Counties	6.70	.35	.30			
San Juan, Skagit (including Cities of Burlington, Sedro-Woolley, Concrete and north thereof), & Whatcom Counties	7.75	.40	.45			
Adams (except City of Othello), Asotin, Columbia, Ferry, Garfield, Lincoln, Pend Oreille, Spokane, Stevens & Whitman Counties; Grand Coulee Dam area in Okanogan County	8.15	.30				
City of Othello in Adams County, Benton, Franklin, Grant & Walla Walla Counties	7.85	.30				
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania & Wahkiakum Counties	7.40	.35	.35		.02	
CARPENTERS						
All Counties and parts of counties east of the 120th Meridian	7.04	.50	.45		.025	
Carpenters						
Piledriver; Floor Layers; Floor Finishers; Floor Sanders; Saw Filers; Stationary Power Woodworking Tool Operator	7.19	.50	.45		.025	
Shingler (wood or composition)	7.24	.50	.45		.025	
Millwrights; Boom Men; Machine Erector; Carpenters (creosoted material)	7.29	.50	.45		.025	
Piledriver (creosoted material)	7.44	.50	.45		.025	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
CARPENTERS (Cont'd)						
All Counties and parts of Counties west of the 120th Meridian except Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Carpenters	7.00	.50	.50		.01	
Carpenters on creosoted material	7.10	.50	.50		.01	
Sawfilers; Stationary Power Saw; Floor Finisher; Floor Layer; Shingles; Floor Sander; & other Stationary Power Woodworking tools	7.13	.50	.50		.01	
Millwrights and Machine Erectors; Piledrivers; Bridge, Dock & Wharf Builders	7.15	.50	.50		.01	
Acoustical Workers	7.16	.50	.50		.01	
Boommen	7.20	.50	.50		.01	
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Carpenters; Form Stripper; Manhole Builders; Acoustical & Drywall Applicators	6.78	.55	.40	.35	.03	
Piledrivermen, Bridge, Dock & Wharf Builders	6.88	.55	.40	.35	.03	
Floor Layers; Floor Finishers; Stationary Power Saw Operator	6.91	.55	.40	.35	.03	
Boomman	6.98	.55	.40	.35	.03	
Millwrights; Machine Erectors	7.03	.55	.40	.35	.03	
CEMENT MASONS						
Lewis, Pierce, Thurston and the City of Auburn in King County	6.70	.40	.50		.02	
King (except the City of Auburn), portion of Kittitas County lying one mile west of the City of Easton, Clallam, Grays Harbor, Island, Jefferson, Kitsap, Mason, San Juan, Skagit, Snohomish, Whatcom & Pacific (northern part) Counties	6.79	.55	.50			
Adams, Asotin, Benton, Chelan, Columbia, Douglas, Ferry, Franklin, Garfield, Grant, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman, Yakima & Kittitas (except for western portion lying one mile west of City of Easton) Counties	6.90	.40	.40		.02	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
CEMENT MASONS (Cont'd)						
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.81	.35	.35		.01	
ELECTRICIANS						
Clallam, Jefferson, King & Kitsap Counties						
Electricians	8.045	.14	1%		.02	
Cable Splicers	8.81	.14	1%		.02	
Grays Harbor, Lewis, Mason, Pierce, Pacific & Thurston Counties						
Electricians	7.66	.35	1% + .40	4%	.04	
Cable Splicers	8.38	.35	1% + .40	4%	.04	
Island, San Juan, Skagit, Snohomish & Whatcom Counties						
Electricians	8.445	.25	1%		.01	
Cable Splicers	9.29	.25	1%		.01	
Chelan, Douglas, Grant & Okanogan Counties						
Electricians	7.93	.35	1%		.02	
Cable Splicers	8.33	.35	1%		.02	
Asotin, Benton, Columbia, Franklin, Garfield, Kittitas, Walla Walla & Yakima Counties						
Electricians	7.93	.35	1%		.02	
Cable Splicers	8.33	.35	1%		.02	
Clark, Klickitat and Skamania Cos.						
Electricians	7.75	.25	1% + .30		.02	
Cable Splicers	8.35	.25	1% + .30		.02	
Cowlitz and Wahkiakum Counties						
Electricians	8.13	.25	1%		.02	
Cable Splicers	8.94	.25	1%		.02	
Adams, Ferry, Lincoln, Pend Oreille, Spokane, Stevens & Whitman Counties						
Electricians	7.93	.35	1%		.02	
Cable Splicers	8.33	.35	1%		.02	
ELEVATOR CONSTRUCTORS						
Chelan, Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Kittitas, Lewis, Mason, Pacific (northern part), Pierce, San Juan, Skagit, Snohomish, Thurston, Whatcom, and Yakima Counties						
Elevator Constructors	7.965	.345	.23	2% + a		
Elevator Constructors' Helpers	70%JR	.345	.23	2% + a		
Elevator Constructors' Helpers (Prob.	50%JR					

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ELEVATOR CONSTRUCTORS (Cont'd)						
Adams, Asotin, Benton, Columbia, Douglas, Ferry, Franklin, Garfield, Grant, Lincoln, Okanogan, Pend Oreille, Stockane, Stevens, Walla Walla and Whitman Counties						
Elevator Constructors	7.66	.345	.23	2% + a		
Elevator Constructors' Helpers	70%JR	.345	.23	2% + a		
Elevator Constructors' Helpers (Prob.)	50%JR					
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Elevator Constructors	7.12	.345	.23	2% + a		
Elevator Constructors' Helpers	70%JR	.345	.23	2% + a		
Elevator Constructors' Helpers (Prob.)	50%JR					
IRONWORKERS						
Statewide except Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Reinforcing; Structural; Fence Erectors; Ornamental; Riggers and Signalmen	7.56	.48	.65		.05	
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Reinforcing; Structural; Fence Erectors; Ornamental; Riggers; Signal Men	7.31	.48	.65	.25	.05	
GLAZIERS						
Island, King, Kitsap, Pacific (northern part), Snohomish, Clallam, Grays Harbor, Jefferson, Lewis, Mason, Pierce, San Juan, Skagit, Thurston & Whatcom Counties	6.85	.22	.35	b		
Clark, Cowlitz, Klickitat, Pacific (southern part) Skamania and Wahkiakum Counties	6.82	.26	.20	4%	.01	
LATHERS						
Clallam, Island, Jefferson, King, Kitsap, Pacific (northern part), San Juan, Skagit, Snohomish & Whatcom Counties	7.30	.40				
Adams, Asotin, Benton, Chelan, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla and Whitman Counties	7.00	.40				

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
LATHERS (Cont'd)						
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.60	.15			.01	
MARBLE MASONS						
Adams (except city of Othello), Asotin, Columbia, Ferry, Garfield, Lincoln, Pend Oreille, Spokane, Stevens and Whitman Counties	8.15	.30				
City of Othello in Adams County, Benton, Franklin, Grant and Walla Walla Counties	7.85	.30				
MARBLE MASONS						
Chelan, Douglas & Okanogan (except area of Grand Coulee Dam)	7.05	.35				
Clallam, Island, Jefferson, King, Kitsap, Snohomish & Skagit (south of the Cities of Burlington, Sedro-Woolley and Concrete) Counties	7.78	.40	.35		.02	
Grays Harbor, Pierce & Pacific (northern part) Counties	7.63	.40	.30		.02	
Lewis, Mason and Thurston Counties	6.70	.35	.30			
San Juan, Skagit (including the Cities of Burlington, Sedro-Woolley, Concrete & north thereof) & Whatcom Counties	7.50	.35	.25			
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	7.40	.35	.35		.02	
MARBLE, TILE AND TERRAZZO WORKERS HELPERS						
All Counties east of the Cascade Mountain Range in Washington	6.20					
Remaining Counties west of the Cascade Mountain Range	6.15	.40				
PAINTERS						
Adams, Asotin, Benton, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla and Whitman Counties						
Brush	6.67	.21	.45		.01	
Drywall Taper	6.92	.21	.45		.01	
Steel; Spray; Sandblasters; Steam Cleaning; Roller over 9" or 10" handle	7.02	.21	.45		.01	
Swing Stage Work or High Rate (over 30')	7.07	.21	.45		.01	
Bitumastics; Bridge; Tanks on legs; Tower; Stacks; Steeples	7.42	.21	.45		.01	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
PAINTERS (Cont'd)						
Chelan, Douglas, Kittitas, Okanogan and Yakima Counties						
Brush	6.29	.21	.35		.01	
Spray; Steel; Roller 9" or 10" handles; Finish Drywall Taper; Steam Cleaning	6.54	.21	.35		.01	
Swing Stage over 30' high	6.64	.21	.35		.01	
Bitumastic; Bridges; Towers; Tanks on legs; Steeples; Stacks; Sand Blasting	6.69	.21	.35		.01	
Clallam County						
Brush	5.68					
Tapers	5.78					
Spray; Structural Steel	5.88					
Grays Harbor, Island, Jefferson, King, Kitsap, Lewis, Mason, Pierce, San Juan, Skagit, Snohomish, Thurston, Pacific (northern part) and Whatcom Counties						
Brush; Tapers	6.92	.40	.27		.02	
Spray; Structural Steel; Bridge; Sandblasting; Stacks; Steam Cleaning; Steeples; Swing Stage; Tanks on legs; Tower; Toxic material	7.17	.40	.27		.02	
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties						
Brush	6.45	.30	.20	.10	.015	
Spray	6.70	.30	.20	.10	.015	
High Work over 100'	6.95	.30	.20	.10	.015	
High Towers, ground to 100'	6.60	.30	.20	.10	.015	
Drywall Tapers	6.10	.32	.15	.50	.015	
PLASTERERS						
Clallam, Island, Jefferson, King (except the City of Kent), Kitsap, Skagit, San Juan, Snohomish, & Pacific (northern part) Counties	7.51	.30	.25		.02	
Chelan, Douglas, Kittitas, Okanogan and Yakima Counties	6.80	.40				
Grays Harbor, King (City of Kent), Lewis, Mason, Pierce and Thurston Counties	6.75	.40	.25		.02	
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.95	.45	.45		.01	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
PLASTERERS (Cont'd)						
Adams, Asotin, Benton, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla and Whitman Counties	7.50	.40				
PLASTERERS' TENDERS						
Adams, Asotin, Benton, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla and Whitman Counties	5.25	.25	.25		.02	
PLUMBERS						
Statewide (except Clallam, Clark, Jefferson & King Cos., and Chelan, Douglas and Okanogan Cos. west of the 119°, 30 Min., and Kittitas County north of the 47°, 15 Min. Latitude)	7.52	.26	.85	.47	.08	
Clark County	7.36	.59	.66		.07	
Clallam, Jefferson & King Counties and Chelan, Douglas and Okanogan Counties west of the 119°, 30 min., and Kittitas County north of the 47°, 15 min. latitude	7.59	.47	.85	.60	.06	
ROOFERS						
Kittitas, Franklin, Columbia, Klickitat, Garfield and Yakima Cos.						
Roofers; Kettlemen	6.15	.20				
Irritable Bituminous Material; Spray (hot)	6.80	.20				
Adams, Chelan, Douglas, Ferry, Grant, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens & Whitman Counties	6.20	.30	.15	.50		
Asotin and Garfield Counties	6.65					
Cowlitz, Northern part of Pacific, and Wahkiakum Counties						
Roofers; Kettlemen; Waterproofers	6.68	.20	.20			
Slate and Tile	6.93	.20	.20			
Clark, Southern part of Pacific and Skamania Counties						
Roofers	6.95	.45	.46			
Handling of irritating material (coal tar or expoxy)	7.45	.45	.46			
In confined areas and handling of irritating materials (coal tar or expoxy)	7.70	.45	.46			

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
ROOFERS (Cont'd)						
Callam, Grays Harbor, Island, Jefferson, King, Kitsap, Lewis, Mason, Pierce, San Juan, Skagit, Snohomish, Thurston and Whatcom Counties						
Roofers; Kettlemen; Waterproofers	$ 7.10	.20	.20			
SHEET METAL WORKERS						
King County	8.47	.27	.30		.04	
Island and Snohomish Counties	7.90	.32	.40	.42	.03	
Benton, Franklin, Kittitas, Klickitat and Yakima Counties	7.65	.32	.50	.50		
Adams, Asotin, Chelan, Douglas, Grant, Ferry, Lincoln, Pend Oreille, Okanogan, Spokane, Stevens & Whitman Counties	7.65	.32	.50	.50		
Walla Walla, Columbia & Garfield Counties	7.65	.32	.50	.50		
Cowlitz, Grays Harbor, Lewis, Pacific (northern part), Pierce, Thurston & Wahkiakum Counties	7.79	.32	.45	.47	.02	
San Juan, Skagit and Whatcom Counties	7.92	.32	.40	.40	.02	
Clark, Pacific (southern part) & Skamania Counties	6.94	.33	.24	.28	.02	
Clallam, Jefferson, Kitsap & Mason Counties	7.97	.32	.40	.35	.04	
SOFT FLOOR LAYERS						
Adams, Asotin, Benton, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla and Whitman Counties	6.42	.21	.25			
Gray Harbor, Mason, Pacific (northern part), Pierce and Thurston Counties	7.59	.36	.45		.03	
King, Kitsap, & Snohomish Counties	7.65	.36	.45		.05	
Clallam, Island, Jefferson, Lewis, San Juan, Skagit and Whatcom Counties	7.03	.30	.45			
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.40	.30	.30	c	.05	
Chelan, Douglas, Kittitas, Okanogan and Yakima Counties	6.42	.16	.25	d		
SPRINKLER FITTERS						
Statewide (except Island, King, Kitsap, Pierce, Skagit, Snohomish and Thurston Counties)	7.95	.25	.40		.04	

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	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
SPRINKLER FITTERS (Cont'd)						
Island, King, Kitsap, Pierce, Skagit, Snohomish & Thurston Counties	$ 8.75	.30	.50		.06	
TERRAZZO WORKERS						
Clallam, Island, Jefferson, King, Kitsap, Skagit (south of the cities of Burlington, Sedro-Woolley and Concrete) & Snohomish Counties	7.53	.40	.35			
San Juan, Skagit (including cities of Burlington, Sedro-Woolley, Concrete and north thereof) & Whatcom Counties	7.50	.35	.25			
Lewis, Mason & Thurston Counties	6.70	.35	.30			
Grays Harbor, Pierce & Pacific (northern part) Counties	7.63	.40	.30		.02	
Adams (except city of Othello), Asotin, Columbia, Ferry, Garfield, Lincoln, Pend Oreille, Spokane, Stevens, Whitman & Grand Coulee Dam Area	8.31	.30				
City of Othello in Adams County, Benton, Franklin, Grant & Walla Walla Counties	7.18	.30				
Chelan, Douglas, Okanogan (except area of Grand Coulee Dam)	7.05	.35				
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.55	.25	.24			
TILE SETTERS						
Clallam, Island, Jefferson, King, Kitsap, Skagit (south of the cities of Burlington, Sedro-Woolley and Concrete) & Snohomish Counties	7.60	.40	.35		.04	
San Juan, Skagit (including cities of Burlington, Sedro-Woolley, Concrete and north thereof) & Whatcom Counties	7.50	.35	.25			
Lewis, Mason & Thurston Counties	6.70	.35	.30			
Grays Harbor, Pierce & Pacific (northern part) Counties	7.63	.40	.30		.02	
Adams (except city of Othello), Asotin, Columbia, Ferry, Garfield, Lincoln, Pend Oreille, Spokane, Stevens, Whitman & Grand Coulee Dam Area	8.21	.30				

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	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
TILE SETTERS (Cont'd)						
City of Othello in Adams County, Benton, Franklin, Grant & Walla Walla Counties	$ 7.18	.30				
Kittitas and Yakima Counties	6.75	.25	.25			
Chelan, Douglas, Okanogan (except area of Grand Coulee Dam)	7.05	.35				
Clark, Cowlitz, Klickitat, Pacific (southern part), Skamania and Wahkiakum Counties	6.55	.25	.24			

WELDERS: Receive rate prescribed for craft performing operation to which welding is incidental.

PAID HOLIDAYS:
A-New Year's Day; B-Memorial Day; C-Independence Day; D-Labor Day; E-Thanksgiving Day; F-Christmas Day.

FOOTNOTES:
a. Employer contributes 4% of basic hourly rate for 5 years' service and 2% of basic hourly rate for 6 months to 5 years' service as Vacation Pay Credit. Six Paid Holidays: A through F.
b. Two weeks' vacation with pay after 1 year of employment. Also seven paid Holidays. A through F plus Washington's Birthday.
c. 4% of all gross wages to be placed to the credit of the employee with less than one year's service - 6% of all gross wages to be placed to the credit of the employee with more than one year of service.
d. All employees who have completed 1800 compensable hours of employment with one employer in a year of employment shall receive one week's vacation with full pay; pro-rata vacation shall accrue in accordance with the ratio of hours worked in one year of employment divided by 1800 hours multiplied by the one week's full pay.

East of the 120th Meridian

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DREDGING	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
LEVERMAN DIPPER:						
(a) 5 yards and under	$8.29	.45	.45			
(b) Over 5 yards	8.84	.45	.45			
LEVERMAN, HYDRAULIC	7.90	.45	.45			
ASSISTANT ENGINEER (Electric Generator Operator for Primary Pump, Power Barge or Dredge)	7.58	.45	.45			
ENGINEER WELDER; CRANEMAN	7.53	.45	.45			
ASSISTANT ENGINEER (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen	7.48	.45	.45			
FIREMAN; OILER	7.14	.45	.45			
ASSISTANT MATE (Deckhand)	7.04	.45	.45			

West of the 120th Meridian and Pacific County(Northern Part)

DREDGING	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
DIPPER LEVERMAN:						
(a) Over 5 yards	$8.64	.45	.65			
(b) 5 yards and under	8.09	.45	.65			
HYDRAULIC LEVERMAN	7.70	.45	.65			
ASSISTANT ENGINEER (Electric, Generator Operator for Primary Pump, Power Barge or Dredge)	7.38	.45	.65			
ENGINEER WELDER; CRANEMAN	7.33	.45	.65			
ASSISTANT ENGINEER (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen	7.28	.45	.65			
FIREMAN; OILER	6.94	.45	.65			
ASSISTANT MATE (Deckhand)	6.84	.45	.65			

AP-283 P. 12

3-WAS-PEO-(DREDGING)-e (1-1)

Clark, Cowlitz, Klickitat, southern half of Pacific, Skamania and Wahkiakum Counties	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
DREDGING						
Dipper Leverman:						
(a) 5 yards and under	$7.89	.45	.60	.25		
(b) Over 5 yards	8.44	.45	.60	.25		
Leverman, Hydraulic	7.50	.45	.60	.25		
Assistant Engineer (Electric Generator Operator for Primary Pump; Power Barge or Dredge)	7.18	.45	.60	.25		
Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen	7.13	.45	.60	.25		
Engineer Welder; Craneman	7.08	.45	.60	.25		
Fireman; Oiler	6.74	.45	.60	.25		
Assistant Mate (Deckhand)	5.64	.45	.60	.25		

LINE CONSTRUCTION - WASHINGTON - e (1-1)

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
Cable Splicers Leadman Pole Sprayer	$8.60	.25	1%		5%	
Lineman; Pole Sprayer; Heavy Line Equipment Man; Certified Lineman Welder	7.76	.25	1%		5%	
Tree Trimmer	7.00	.25	1%		5%	
Line Equipment Man	6.67	.25	1%		5%	
Head Groundman (Chipper); Head Groundman; Powderman; Jackhammer Man	5.82	.25	1%		5%	
Groundman; Tree Trimmer Helper	5.49	.25	1%		5%	
Hole Digger	5.25	.25	1%		5%	

AP-283 P. 13
1-WAS-LAB-1-2-3 (1-2)

All Counties and parts of Counties East of the 120th Meridian

LABORERS	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Group I Carpenters tender; Concrete crewman; Concrete signalman; Crusher feeder; Demolition; Driller helper, Dumpman; Fence erector; General laborer; Grout machine header tender; Nipper; Riprap man; Scaleman; Stake jumper; Structural mover; Tailhoseman (water nozzle); Track laborer (RR); Truck loader; Timber bucker and faller; Window cleaner; Brush Hog Feeder	$5.50	.35	.55		.02	
Group II Cement finisher tender; Cement handler; Demolition torch; Dope pot fireman, nonmechanical; Form cleaning machine, feeder, stacker; Form setter, paving; Grade checker using level, optional; Nozzleman, water & air or steam; Pipe layer, currugated metal culvert; Pipewrapper; Pot tender; Powderman helper; Power tool op.; gas, electric, pneumatic Railroad equipment, power driven; Rodder & spreader; Sandblast tailhoseman; Scaffold erector, wood or steel; Vibrator up to 4"; Wallpoint man; Wheelbarrow, power driven	5.65	.35	.55		.02	
Group III Asphalt raker; Asphalt roller, walking; Chain saw op. w/attachments; Concrete saw, walking; Creosote material; High scaler; Jackhammer op.; Multi-section pipelayer; Nozzleman; Pavement breaker; Tamper; Trencher; shawnee; Vibrator, 4" & over; Wagon drills; Water pipe liner	5.75	.35	.55		.02	
Group IV Chain Saw (faller); Pipelayer (Caulker, collarman, jointer, mortarman, rigger, jacker, shorer & lagger and laser beam but not incl. laying corrugated metal culvert pipe)	5.80	.35	.55		.02	
Group V Concrete stack, Hod carriers; Mortar mixer; Vibrator, 4 inches and over	5.85	.35	.55		.02	

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1- WAS-Lab-1-2-3 (2-2)

Laborers (cont'd):	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
GROUP VI Caisson worker, free air; High Scaler	$5.90	.35	.55		.02	
GROUP VII Brush machine; Drills, Gunnite; Monitor op., Air Track or similar mounting; Nozzleman	5.95	.35	.55		.02	
GROUP VIII Air track drills with dual masts and drills; Powderman	6.15	.35	.55		.02	
TUNNEL & SHAFT, FREE AIR						
GROUP IX						
Class A: Bull gang, pump crete crewman incl. distributing pipe, assembling & dismantle and nipper	5.55	.35	.55		.02	
Class B: Brakeman, dumpman	5.60	.35	.55		.02	
Class C: Minor & nozzleman for concrete and laser beam op. on tunnels	6.00	.35	.55		.02	
Class D: Raise & shaft miner and laser beam op. on raises and shafts	6.05	.35	.55		.02	
GROUP X Sand Hogs (Under compressed air conditions):						
1 lb thru 14 lbs - 6 hrs. work	56.40	.35	.55		.02	
Over 14 lbs thru 18 lbs - 6 hrs. work	59.10	.35	.55		.02	
Over 18 lbs thru 22 lbs - 4 hrs. work	39.10	.35	.55		.02	
Over 18 lbs thru 22 lbs - 6 hrs. work	79.35	.35	.55		.02	
Over 22 lbs thru 26 lbs - 4 hrs. work	63.30	.35	.55		.02	
Over 26 lbs thru 32 lbs - 4 hrs. work	65.70	.35	.55		.02	
Over 32 lbs thru 38 lbs - 3 hrs. work	68.40	.35	.55		.02	
Over 38 lbs thru 44 lbs - 2 hrs. work	69.70	.35	.55		.02	
Outside lock & guage tender(per shift)	46.80	.35	.55		.02	

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4-WAS-LAB 1-2-3 (1-1)

Chelan, Douglas, Kittitas, Okanogan and Yakima Cos. West of the 120th Meridian LABORERS	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS H & W	PENSIONS	VACATION	APP. TR.	OTH
General Labor; Carpenter Tender; Form Stripper; Rip Rap Man; Track Laborer; Stake Hopper; Choke Setter; Fence Laborer	$5.20	.50	.60		.03	
Air Track & Wagon Drill Helper; Crusher Feeder; Dump & Stock Pile Man; Powder Man Helper; Sloper, Over 20 feet	5.30	.50	.60		.03	
Power Buggy; Drill Chipper; Grinder and similar light power tools; Faller and bucker (Hand); Grout Man (Power)	5.35	.50	.60		.03	
Asphalt Raker & Spreader; Cement Handler; Sack of Bulk; Dope Pot Tender; House Wreckers; Jackhammer; Pavement Breaker; Tamper Vibrator; Track Spike Puller; Concrete Saw and similar heavy power tools; Nozzleman (Air & Water)	5.40	.50	.60		.03	
Formsetter; Steel Forms; Grade Checker; Swinging Stage or Bosun Chair over water or over 25 feet in height	5.45	.50	.60		.03	
Air Track & Wagon Drill Operator; Chain Saw Operator; Gunite Man; High Scaler; Pipe Layer & Caulker; Pipe Wrapper; Sand Blaster; Timber Man; Open Ditch; Mortar Man & Hod Carrier	5.50	.50	.60		.03	
Faller & Bucker (Chain Saw); Powder Man	5.55	.50	.60		.03	
Caisson Workers; Free Air	5.60	.50	.60		.03	
TUNNEL SHAFTS, FREE AIR						
Topman & Bull Gang	5.30	.50	.60		.03	
Chuck Tender; Mucker & Laborer; Nipper; Brakeman	5.35	.50	.60		.03	
Powder Man Helper	5.45	.50	.60		.03	
Miner (including Monolithic Worker); Re-Timberman; Maintenance Man; Spader	5.55	.50	.60		.03	
Miner; Shaft & Raise	5.65	.50	.60		.03	
Powder Man	5.70	.50	.60		.03	

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2-WAS-LAB-1-2-3-c (1-2)

Remaining Counties West of the 120th Meridian including northern part of Pacific County. LABORERS:	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
GROUP I General Laborer; Nipper; Truck Spotter; Pitman; Brush Cutter; Choker Setter; Concrete & Monolithic Laborer; Pot Tender; Asphalt Laborer; Ditch Digger; Drierman; Concrete Form Stripper; Carpenter Helper; Track Laborer; Well-Point and Header Laborer	$5.45	.50	.60		.03	
GROUP II Dumpman; Faller & Bucker: Hand, Powderman's Helper; Sloper (over 20'); Wagon Driller & Air Trac Helper	5.55	.50	.60		.03	
GROUP III Groutman (pressure); Power Tools-Light Duty Chippers; Grinders; Tampers; and Similar Electric and Air Operated Tools; Swinging Scaffold or Boatswain Chair over water or over 25' in height	5.60	.50	.60		.03	
GROUP IV Concrete Saw Operator; Pipe Pot Tenderer; Power Wheel Barrow or Buggy; Power Tools Heavy Duty Jackhammer; Pavement Breaker; Vibrators; Tampers (multiple & self-propelled); Rail-road Spike Puller; Rakers - Asphalt	5.65	.50	.60		.03	
GROUP V Form Setter (steel forms); Grademan and Stake Hopper; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete & rock, sandblast, gunnite shot-crete)	5.70	.50	.60		.03	
GROUP VI Faller and bucker: Chain Saw; High Scaler; Mortarman & Hod Carrier; Pipe Layer and Caulker; Pipe Wrapper; Timberman - Sewer; Wagon Driller and Airtrac	5.75	.50	.60		.03	
GROUP VII Cement Dumper - Paving; Powderman	5.80	.50	.60		.03	

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
LABORERS: (Cont'd)						
GROUP VIII						
Tunnel Work						
Topman and Bull Gang	$5.50	.50	.60		.03	
GROUP IX						
Chuck Tender; Muck and Laborer; Nipper; Brakeman	5.55	.50	.60		.03	
GROUP X						
Powderman' Helper	5.65	.50	.60		.03	
GROUP XI						
Miner (Including monolithic work); Spader; Re-Timberman; Maintenance Man	5.75	.50	.60		.03	
GROUP XII						
Miner, Shaft and raise	5.80	.50	.60		.03	
GROUP XIII						
Powderman	5.90	.50	.60		.03	
GROUP XIV						
1 lb. thru 14 lbs. (6 hrs.)	52.00	.50	.60		.03	
Over 14 lbs. thru 18 lbs. (6 hrs), over 18 lbs. thru 22 lbs. (4 hrs.)	54.70	.50	.60		.03	
Over 18 lbs. thru 22 lbs. (6 hrs.)	74.95	.50	.60		.03	
Over 22 lbs. thru 26 lbs. (4 hrs)	58.90	.50	.60		.03	
Over 26 lbs. thru 32 lbs. (4 hrs.)	61.30	.50	.60		.03	
Over 32 lbs. thru 38 lbs. (3 hrs.)	64.00	.50	.60		.03	
Over 38 lbs. thru 44 lbs. (2 hrs.)	65.30	.50	.60		.03	
Outside lock and gauge tender (per shift)	46.00	.50	.60		.03	

Clark, Cowlitz, Klickitat, Southern part of Pacific, Skamania and Wahkiakum Counties

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
LABORERS						
GROUP I						
Asphalt plant laborers; Asphalt spreaders; Batch weighman; Brooners; Brush burners & cutters; Car & truck loaders; Carpenter tender; Change-house man or dry shack men; Choker setters; Clean up laborers; Concrete laborers; Crusher feeders; Culvert, hand labor; Curing, concrete; Demolition, wrecking, & moving laborers; Driller helpers; Dumpers, Road oiling crew; Dumpmen (for grading crew); Elevator feeders; Fence builder (incl. Guard rail, Median rail, Reference post, Guide post, Right-of-way marker); Fine graders; Form strippers (not swinging stages); General laborers; Landscaping or planting laborers; Leverman on aggregate spreader (Flaherty & similar types); Loading spotters; Material yard man (incl. electrical); Pittsburgh chipper operator or similar types; Powderman helper; Railroad track laborers; Ribbon setters (incl. steel forms); Rip Rap man (hand placed); Road pump tender; Sewer labor; Skipmen; Signalmen; Slopers, spraymen; Stake chaser-Stake setter-Grade checker; Stockpiler; Timber faller & Bucker (hand labor); Toolroom man (at job site); Tunnel bull gang (above ground); Weigh man crusher aggregate (when used)	$5.45	.50	.60	.25	.02	
GROUP II						
Applicator (incl. pot tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Burners; Choker sulicer; Clary power spreader & similar types; Clean-up nozzleman-greencutter (concrete rock, etc.); Concrete power buggyman; Demolition & wrecking charred materials; Gunite nozzleman tender; Gunite or sand blasting pot tender; Handlers or mixers of all materials of an irritating nature (incl. cement & lime); Manhole builder;						

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3-WAS-LAB-1-2-J (2-2)

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHER
Powertool op., incls. but not limited to: Chipping guns, Jackhammer, Paving breakers, Post hole digger, Air, Gas, or Electric, Tampers, Vibrating screed, Vibrators (less than 4" in diameter); Ribbon setter, head; Rip Rap man (head), hand placed; Sand blasting (wet); Sewer timbermen; Timber buckers & Fallers, Brush cutters (power saw); Tunnel-muckers, Brakemen, Concrete crew, Bull gang (underground)	$5.60	.50	.60	.25	.02	
GROUP III						
Asphalt rakers; Bid grinder; Concrete saw op.; Drill doctor; Drill oprs., Air tracks, Cat drills, Wagon drills, Rubber-mounted drills, & other similar types; Gunite nozzleman; High scalers, Strippers & Drillers (covers work in swinging stages, chairs or belts, under extreme conditions usual to normal drilling, blasting, barring-down, or sloping & stripping); Powdermen; Power saw ops. (bucking & falling merchantable logs); Pumpcrete nozzlemen; Sand blasting (dry); Sewer pipe layers; Track liners, Anchor machines, Ballast regulators, Multiple tampers, Power jacks; Tugger op.; Tunnel — Chuck tenders, Nippers, & Timbermen; Vibrators (4" & larger); Water blaster; Welder	5.75	.50	.60	.25	.02	
GROUP IV						
Tunnel miners; Tunnel powderman	5.90	.50	.60	.25	.02	

AP-283 P. 20
1-WAS-PEO-1-2-3-e (1-4)

All Counties & parts of Counties East of the 120th Meridian

	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
POWER EQUIPMENT OPERATORS						
GROUP I						
Bit Grinders; Bolt Threading Machine; Brakeman; Compressors, under 1000 cu. ft. per minute gas, diesel or electric power; Crusher Feeder (mechanical); Deck Hand; Drillers' Helper; Fireman & Heater Tender; Grade Checker; Helper (Mechanic or Welder, H.D.); Oiler; Pumpman; Rollers, all types on subgrade (farm type, Case, John Deere and similar - or compacting or vibrator) except when pulled by dozer with operable blade; Welding Machines.	$6.55	.50	.65		.025	
GROUP II						
A-Frame Truck (single-drum); Assistant Refrigeration Plant (under 1000 tons); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Batch Plant & Wet Mix Operator, single unit (concrete); Belt Finishing Machine; Bending Machine (pipeline); Blower Operator (cement); Cement Hog; Compressor (1000 cu. ft. or over, 2 or more - gas, diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Dope Pots (power agitated); Equipment Serviceman, Greaser & Oiler; Fork Lift or Lumber Stacker, Hydra Lift & similar; Gin trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable - concrete); Pavement Breaker, Hydra-Hammer & similar); Posthold Auger or Punch; Power Broom; Railroad Ballast Regulation Operator, (self-propelled); Railroad Power Tamper Operator, (self-propelled); Railroad Power Tamper Jack Operator, (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross &						

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POWER EQUIPMENT OPERATORS (CONT'D)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP II (CONT'D)						
similar on construction job site); Tractor (farm type R/T with attachments except backhoe); Tugger Operator.	6.85	.50	.65		.025	
GROUP III						
A-Frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 tons); Backfillers (Cleveland & similar); Belt-Crete Conveyors with Power Pack or similar; Belt Loader (Kocal or similar); Blade Operator (Motor Patrol and attachments); Boat Operators; Boom Cats (side); Boring Machine (earth); Boring Machine (rock under 8" bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Cleaning & Doping Machine (pipeline); Concrete Pumps (squeeze-crete, flow-crete, pumpcrete, Whitman & similar); Drills Drills (churn, core, calyx or diamond); Elevating Belt-type Loader (Euclid, Barber Green or similar); Elevating Grader-type Loader (Dumor, Adams, or similar); Generator Plant Engineers (diesel electric); Gunite Combination Mixer & Compressor; Hoist, (2 or more drums or Tower Hoist); Loaders, (overhead & front-end, under 4 yds., R/T); Locomotive Engineer; Mixermobile; Oiler & Cable Tender, Mucking Machine, Paver (asphalt and concrete); Pump (Grout or Jet); Refrigeration Plant Engineer (1000 tons); Rollerman (finishing pavement); Rubber-tired Scrapers (one motor with one scraper, under 40 yds.); Screed Operator; Soil Stabilizer (P & H or similar); Spreader Machine; Tractor (crawler, incl. Dozer, Scraper, Drills, Booms, Rollers, etc.); Traverse Finishing						

POWER EQUIPMENT OPERATORS (CONT'D)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Other
GROUP III (CONT'D)						
Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead Operator	$7.10	.50	.65		.025	
GROUP IV						
H.D. Mechanic; H.D. Welder; Refrigeration Plant Engineer (1000 tons & over) Semi-automatic Welding Machine.	7.20	.50	.65		.025	
GROUP V						
Asphalt Plant Operator; Crusher & Screening Plant Operator; Rubber-tired Scrapers Multi-Engine Power with one Scraper (Euclid, TS-24 & similar); Rubber-tired Scraper, One Motor with One Scraper (40 yds. & over); Single Engine with two Scrapers (Letourneau, Tandem B & similar); Surface Beater & Planer Machine.	7.25	.50	.65		.025	
GROUP VI						
Automatic Subgrader (ditches & trimmers) (R.A. Hansen & similar); Backhoes (under 3 yds.); Batch & Wet Mix Operator-Multiple Units (2 and incl. 4); Clamshell Operator (under 3 yds.); Concrete Slip Form Paver; Cranes (under 65 tons); Derricks & Stifflegs (under 65 tons); Draglines (under 3 yds.); Drilling Equipment (8" bit and over) (Robbins & similar); Hydra-Cranes (Austin, Western Hydra-Hoe and similar with attachments); Loader Operator (Front End & Overhead 4 yds. to 8 yds.); Mucking Machines; Piledriving Engineers; Paver (dual drum); Quad-track or similar Equipment; Railroad Track Liner Operator (self-propelled); Rubber-tired Scrapers, Multiple						

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1-WAS-PEO-1-2-3-e (4-4)

POWER EQUIPMENT OPERATORS (CONT'D)	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Others
GROUP VI (CONT'D)						
Engines with two Scrapers; Shovels (under 3 yds.); Signalmen (Whirleys, Highline Hammerheads or similar); Trenching Machines (7 ft. depth and over).	$7.40	.50	.65		.025	
GROUP VII						
Backhoes (3 yds. and over); Batch Plant (over 4 units); Cableway Controller-Dispatcher; Cableway Operators; Clamshell Operator (3 yds. and over); Cranes (65 tons and over); Derricks & Stifflegs (65 tons and over); Draglines (3 yds. and over); Loader - (360 degrees revolving Koehring Scooper or similar); Loaders (overhead and front end over 8 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. and over); Tower Crane; Whirleys and Hammerheads (all).	7.65	.50	.65		.025	
Underground Work - Add 10% to the Classification. Classification.						
(Not to include open pits, cuts, ditches, trenches and such work as paving, etc.)						
All Crane Booms: 130' to 200' - $.15/hr. Additional to Classification; Over 200' - - $.30/hr. Additional to Classification;						
Yo-Yo Dozer: 10% Additional						

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2-WAS-PEO-1-2-3-d (1-5)

All Counties & parts of Counties West of the 120th Meridian except Clark, Cowlitz, Klickitat, Southern part of Pacific, Skamania, & Wahkiakum Counties

POWER EQUIPMENT OPERATORS	Basic Hourly Rates	Fringe Benefits Payments H & W	Pensions	Vacation	App. Tr.	Other
GROUP I						
Mechanics' Helpers (heavy duty)	$6.92	.45	.65		.04	
GROUP II						
Brakemen; Oiler (grader checkers & stakeman)	7.02	.45	.65		.04	
GROUP III						
Fireman; Fireman (drier & hot plant)	7.13	.45	.65		.04	
GROUP IV						
Tractor (farmall type, 60 h.p. & under); Compressor (excavating and general purposes); Rollers, Tampers & Vibrators (other than plant, road mix or multilift materials)	7.18	.45	.65		.04	
GROUP V						
Oiler Driver on Truck Cranes (over 45 tons up to 100)	7.20	.45	.65		.04	
GROUP VI						
Oil Distributors; Blower Distriburors and mulch seeding operator	7.25	.45	.65		.04	
GROUP VII						
Locomotives (dinkey air, diesel, electric, gas, steam)	7.26	.45	.65		.04	
GROUP VIII						
Equipment Service Oiler; Oiler Driver on truck cranes (100 tons & over)	7.30	.45	.65		.04	
GROUP IX						
Tractors (farmall type, over 60 h.p.); Pump (water)	7.32	.45	.65		.04	
GROUP X						
Post Hole Diggers (mechanical)	7.45	.45	.65		.04	

POWER EQUIPMENT OPERATORS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
GROUP XI Brooms, power (Wayne, Saginaw & similar); Bulldozers (under D9 or similar); Saws (consrete); Loaders (fork lift or lumber stacker (on construction job site), Drott travel lift); Scrapers (carry-all type, single); Roller, tampers and vibrator, twin engine	$7.48	.45	.65		.04	
GROUP XII Mixer (asphalt up to 4 tons per batch) Loaders (elevating Athey, Barber Greene & similar types); Loaders (overhead & front end, under 2½ yds.); Mixers (concrete & batch 200 yd.s. per hour & under); Pumps, Fuller Kenyon; Pumps, concrete and Pump crete; Roller, Tamper & Vibrator (on plant, road mix or multilift materials); Trenching Machines (under 16 inches); Batch Plant & Mixer (200 yds. per hour & under); Conveyors; Crushers (rock), washing and screening plants; Finishing Machine Operator (concrete paving); Hoists, Air Tuggers, Strato Tower Bucket, Elevators and Deck Winches (power); Power Plant Operators; Screedman; Spreaders (Blaw Knox, Cedarapids, Jaeger, Flarrety or similars); Cranes ("A" frame truck, single power drum)	7.51	.45	.65		.04	
GROUP XIII Locomotive, Mechanics or Welder (heavy duty)	7.56	.45	.65		.04	
GROUP XIV Tournapulls, Caterpillar, Euclid Scrapers and similar type equipment (25 yds. and under); Motor Patrol Graders (incl. Model 14 & similar)	7.58	.45	.65		.04	
GROUP XV Hoists on Steel Erection, Air Tuggers and Towermobiles; Compressor (steel erection incl. sandblasting, painting or same); Loaders (fork lifts w/tower)	7.60	.45	.65		.04	

POWER EQUIPMENT OPERATORS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
GROUP XVI Loaders (elevating grader type, Dumor & similar); Cement Hogs; Locomotive (geared or rod engine); Paving; Scraper (carryall type, double)	$7.63	.45	.65		.04	
GROUP XVII Tractors (farmall type, used as backhoes, rubber tired, Ford, Ferguson, Case & similar types, 60 h.p. & under)	7.66	.45	.65		.04	
GROUP XVIII Bulldozer (D-9 or similar)	7.70	.45	.65		.04	
GROUP XIX Trenching Machines (16 inches and over)	7.77	.45	.65		.04	
GROUP XX Bump Cutter (Concut, Christianson or similar types)	7.78	.45	.65		.04	
GROUP XXI Conveyors (beltcrete with power pack & similar types); Loaders (elevating belt type, Euclid & similar); Batch Plant, batch & Mixer (over 200 yds. per hour through 400 yds.); Mixer (concrete & batch, over 200 yds. per hour through 400 yds.), Paving (dual); Mixer, asphalt (4 tons & over per batch)	7.83	.45	.65		.04	
GROUP XXII Motor Patrol Graders (over Model 14 & similar); Derricks all-Drilling Machines (core, cable, rotary & exploration); Linked Pusher, Pay Dozer (quad 9 & similar); Mucking Machines (mole or tunnel drill and/or shield); Subgrader (Gurries, CMI and similar); Tournapulls, Caterpillar, Euclid Scrapers & similar type equipment (over 25 yds. through 40 yds.); Tractors (farmall type, used as backhoes, rubber tired, Ford, Ferguson, Case & similar, over 60 h.p.); Piledriver Engineers (L.B. Foster puller or similar paving breaker);						

POWER EQUIPMENT OPERATORS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP XXII (cont'd)						
Cranes ("A" frame truck, dbl. power drum); Crawler (truck type, floating, locomotive, Whirley, either 3 yds. & under, or 150' of boom, incl. jibs, & under, or 45 tons & under); Hydralifts; Hyster Cat Cranes & attachments; Bulldozers (engaged) in yo yo operation (while clearing and scaling); Shovels (Crawler and truck type, all attachments, 3 yds. & under); Cranes, Chipper, wood w with boom attachment; Mixer, (mobile type with hoist combination); Cableways (3 yds. & under); Loaders (fork lift with power boom & swing attachment); loaders (overhead & front end, 2½ yds. up to 4 yds.)	$7.88	.45	.65		.04	
GROUP XXIV						
Loaders (overhead & front end, 4 yds. up to 8 yds.)	8.10	.45	.65		.04	
GROUP XXV						
Mixer (concrete mixers & batch over 400 yds. per hour through 600 yds. per hour)	8.14	.45	.65		.04	
GROUP XXVI						
Tournapulls, Caterpillar, Euclid Scraper and similar type (over 40 yds. through 55 yds.)	8.19	.45	.65		.04	
GROUP XXVII						
Slip Form Paver (Zimmerman, CMI, and other similar types); Cableway (over 3 yds.); Crane (Crawler, truck type, floating, locomotive, Whirley, either over 3 yds. or over 150' of boom incl. jibs, or over 45 tons up to 100 tons); crane (Tower Cranes, Pecco, Lorraine, Bucyrus & similar types: Remote Control Operator (on rubber tired earth moving equipment) Helicopter Winch Operator; Shovel (Crawler and truck type, all attachments, over 3 yds. up to 6 yds.)	8.27	.45	.65		.04	
GROUP XXVIII						
Tournapulls, Caterpillar, Euclid Scrapers & similar type equipment (over 55 yds. through 70 yds.)	8.49	.45	.65		.04	

POWER EQUIPMENT OPERATORS (cont'd)	Basic Hourly Rates	Fringe Benefits Payments				
		H & W	Pensions	Vacation	App. Tr.	Others
GROUP XXIX						
Loaders (Overhead & front end, 8 yds. and over)	$8.69	.45	.65		.04	
GROUP XXX						
Tournapulls, Caterpillar, Euclid Scrapers & similar type equipment (over 70 yds. through 85 yds.)	8.80	.45	.65		.04	
GROUP XXXI						
Shovel (Crawler and truck type, all attachments, 6 yds. and over); Cranes (Crawler, truck type, floating, locomotive, Whirley, either 6 yds. & over, 200' of boom incl. jibs & over, or 100 tons and over)	8.82	.45	.65		.04	
GROUP XXXII						
Tournapulls, Caterpillar, Euclid Scrapers & similar type equipment (over 85 yds. through 100 yds.)	9.10	.45	.65		.04	

Clark, Cowlitz, Klickitat, Southern part of Pacific, Skamania & Wahkiakum Counties

POWER EQUIPMENT OPERATORS	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
GROUP I ASSISTANT CONVEYOR; Oiler, including plant and crusher; Crusher Feederman; Deckhand; Self-propelled Scaffolding; Guard Rail Punch Oiler; Pump under 4" Brakeman Switchman; Parts Man (Tool Room)	$6.40	.45	.60	.25		
GROUP II BLADE, PULLED TYPE; Truck Crane Oiler-driver, 25 ton capacity or Fireman, all equipment; A-Frame Truck, single drum; Tugger or Coffin type Hoist, any power; Drill Helper; Auger Oiler; Boatman; Forklift or Lumber Stacker; Temporary Heating Plant; Grade Oiler, required to check grade; Grade Checker; Tar Pot Fireman; Tar Pot Fireman (power agitated); H.D. Repairman Helper; Welder's Helper; Fireman Helicopter Radio-man (ground); Roller, Rock	6.54	.45	.60	.25		
GROUP III PLANT FIREMAN; Pugmill; Truck Mounted Asphalt Spreader, with screed; Compressor, any power, under 1,000 cu. ft. total capacity; Mixer Box Concrete Plant; Concrete Conveyor; Cement Hog; Concrete Saw, self-propelled unit; Wire Mat Machine or Booming Machine; Concrete Curing Machine, self-propelled; Bucket Elevator Loader, Barber Greene and similar type; Hydraulic Pipe Press; Pump any power, 4" and over; Hydrostatic Pump; Motorman; Ballast Jack Tamper; Bell Boy, phones, etc; Tamping Machine, mechanical self-propelled; Hydrographic Seeder Machine, straw, pump or seed; Broom Operator, self-propelled; Air Filtration Equipment; Welding Machine	6.64	.45	.60	.25		

POWER EQUIPMENT OPERATORS	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
GROUP IV SCREED; Compactor, including vibratory; Compressor, over 1,000 cu. ft. total capacity, Concrete Mixer, single drum, under 5 bag capacity; Concrete Cooling Machine; Combination Mixer and Compressor, Gunite work; Helicopter Hoist; Fork Lift, over 5 tons; Lull Hi-Lift or similar types; Pavement Breaker; Pump, more than 3, any size; Locomotive, under 40 tons; Roller, Oiling, CTB	$6.80	.45	.60	.25		
GROUP V CURB MACHINE, MECHANICAL BERM, CURB AND/OR CURB AND GUTTER; Wagner Factor or similar type (without blade); Batch Plant Material Control; Power Jumbo, setting slip forms, etc. in tunnels; Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Hoist, single drum; Elevator, Diesel, Gas, Engineer; Chip Spreading Machine; Lime Spreading; Sweeper (Wayne Type); self-propelled; Tractor, rubber-tired 50 H.P. Flywheel and under; Trenching Machine, maximum digging capacity 3 ft. depth	6.82	.45	.60	.25		
GROUP VI ASPHALT PLANT; Asphalt Paver; Maginnis, internal full slab vibrator; Concrete finishing Machine, Clary, Johnson, Bidwell, Burgess, bridge deck or similar type; Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine; Concrete Planer; Cast in place pipe laying machine; Concrete Paving Machine; Concrete Spreader; Loaders, Rubber-tired type, 2½ cu. yds. and under; Rock Spreader, self-propelled	6.90	.45	.60	.25		

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
GROUP VII						
ROLLER, ASPHALT; Concrete Mixer, single drum, 5 bag capacity and over; Beltcrete; Pumpcrete; Cement Pump, Fuller-Kenyon and similar; Grouting Machine; Concrete Pump; Tower Mobile; A-Frame Truck, double drums; Boom Truck; Churn Drill and Earth Boring Machine; Hydraulic Backhoe, wheel type 3/4 cu. yds. & under with or without front end attachments 2½ cu. yds. and under (Ford, John Deere, Case type); Elevating Grader, Tractor and towed requiring operator or grader; Pot Rammer; Ballast Regulator; Ballast Tamper Multi-Purpose; Track Liner; Tie Spacer; Shuttle Car; Locomotive 40 tons and over	$6.96	.45	.60	.25		
GROUP VIII						
DIESEL-ELECTRIC ENGINEER, PLANT OR FLOATING; Batch Plant and/or wet mix, one and two drums; Generator; Diesel-Electric Engineer; Belt Loaders, Kolman and Ko Cal types	7.06	.45	.60	.25		
GROUP IX						
BULLDOZER; Drill Cat; Side-Boom Cat; Compactor, with blade; Chicago Boom and similar types; Lift Slab Machine; Boom Type lifting device, 5 tons capacity or less; Cherry picker or similar type crane-hoist; 5 ton capacity or less; Grizzley; Crusher Plant; Boring Machine; Surface Heater & Planer; Hydraulic Backhoe, truck type 3/8 cu. yds. Loader, front end and overhead 2½ cu. yds. and under 4 cu. yds.; Pipe Cleaning Machine; Pipe Doping Machine; Pipe Bending Machine; Pipe Wrapping Machine; Bolt Treading Machine; Drill Doctor; including bit grinder; H.D. Mechanic; H.D. Welder; Machine Tool Operator; Stationary Drag Scraper; Tractor Rubber-tired over 50 H.P. Flywheel; Tractor, Rubber-tired with boom attachments; Trenching Machine maximum digging capacity over 3 ft. depth	$7.12	.45	.60	.25		
GROUP X						
BULLDOZER, TWIN-ENGINE (TC 12 and similar type); Cable-Plow; Compactor, Multi-engine; Driller-Percussion, Diamond, Core, Cable, Rotary and similar types; Jack Operator Elevating Barges; Barge Operator, self-unloading Combination H.D. Mechanic-Welder; Welder-Certified; Rubber-tired Dozers and Pushers (Michigan, Cat, Hough, type	7.18	.45	.60	.25		
GROUP XI						
MIXER MOBILE; Crane, 25 tons and under; Shovel, Dragline; Clamshell, Hoe, etc., under 1 cu. yd.; Grade-all, under 1 cu. yd.; Mucking Machine	7.20	.45	.60	.25		
GROUP XII						
BLADE; Batch Plant and/or wet mix, 3 units or more; Hoist, 2 drums; Hoist, 3 or more drums; Elevating Loader, Athey and similar types; Piledriver (not crane type); Rubber-tired Scraper, single engine, single scraper; Scraper-Self-Loading, paddle wheel ladder type; Rubber-tried Scraper, twin engine; Rubber-tired Scraper, with push-pull attachments; Blade Mounted Spreaders, Ulrich and similar types; Shield Operator	7.26	.45	.60	.25		
GROUP XIII						
BLADE, FINISH (working with either red or blue tops); Blade, Electronically controlled by wite or laser beams; Blade, Multi-engine; Concrete Paving and Road Mixer; Bridge Crane, Locomotive, Gantry Overhead; Derrick, under 100 tons; Hoist Stiffleg, Guy Derrick or similar type 50 tons and over; Cableway, up to 25 tons; Crane, over 25 tons and including 40 tons; Tower Crane; Piledriver (not crane type); Floating Clamshell, etc., under 3 cu. yds.;						

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
Floating Crane (Derrick Barge); less than 30 tons; Hydraulic Backhoe, truck type over 3/8 cu. yds.; Elevating Grader, operated by tractor, Sierra, Euclid or similar types; Back-Filling Machine; Shovel, etc., 1 cu. yd. but less than 3 cu. yds.; Gradeall, 1 cu. yd. and over	$7.34	.45	.60	.25		
GROUP XIV RUBBER-TIRED SCRAPER WITH TANDEM SCRAPER	7.50	.45	.60	.25		
GROUP XV ROCK HOUND; Loader, 4 cu. yds. but less than 6 cu. yds.	7.66	.45	.60	.25		
GROUP XVI AUTO GRADER (i.e. CMB) or TRIMMER; Tandem Bulldozer, Quad-nine and similar type; Automatic Concrete Slip Form Paver; Concrete Canal Liner; Cableway, 25 tons and over; Crane, over 40 tons and including 100 tons; Whirley, 80 tons and under; Floating Clamshell, etc., 3 cu. yds. and over; Floating Crane (Derrick Barge), 30 tons but less than 80 tons; Loader, 6 cu. yds., but less than 8 cu. yds.; Loader 8 cu. yds. but less than 12 cu. yds.; Rubber-tired Scraper, with Tandem Scraper, Multi-engine; Shovel, etc., 3 cu. yds. but less than 5 cu. yds.; Wheel Excavator, under 750 cu. yds. per hour	7.84	.45	.60	.25		
GROUP XVII CRANE, Over 100 tons and including 200 tons; Whirley over 80 tons and including 150 tons; Floating Crane (Derrick Barge); 80 tons but less than 150 tons; Loader, 12 cu. yds. and over; Shovel, etc., 5 cu. yds. and over; Canal Trimmer	7.98	.45	.60	.25		
GROUP XVIII CRANE, over 200 tons; Whirley, 150 tons and over; Floating Crane 150 tons but less than 250 tons; Wheel Excavator, over 750 cu. yds. per hour; Band Wagons, in conjuction with wheel excavator	$8.16	.45	.60	.25		
GROUP XVIV HELICOPTER; When used in erecting work; Floating Crane 250 tons and over; Remote controlled earth moving equipment (no one operator shall operate more than two pieces of moving equipment at one time); Underwater Equipment, remote or otherwise	8.30	.45	.60	.25		

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS

All Counties and parts of Counties East of the 120th Meridian

TRUCK DRIVERS	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Group I FLAT BED TRUCK, single rear axle; Escort Driver; Fish Truck; Fork Lift, 3,000 lbs. & under; Fuel Truck Driver (steam cleaner & washer); Helper & Swamper; Leverman Loading Trucks at Bunkers; Pickup Hauling Material; Stationary Fuel Op.; Team Driver; Tractor (small rubber tired pulling trailer or sim. equip.); Water Tank Truck 1,800 gallons	$6.70	.62	.50			
Group II BUS DRIVER OR MANHAUL DRIVER; Flat Bed Truck, dual rear axle; Tireman No. 1; Warehouseman	6.75	.62	.50			
Group III BUGGY MOBILE & SIM.; Bulk Cement Tanker; Oil Tank Driver; Power Operated Sweeper; Semi-Trailer, low bed, truck & Trailer; Straddle Carrier (Ross, Hyster & sim.); Transit Mixers & Trucks Hauling Concrete (3 yds. & under); Trucks, side end and bottom dump (under 6 yds.); Water Tank Truck (1,801 - 4,000 gallons)	6.80	.62	.50			
Group IV AUTO CRANE - 2000 lbs. capacity; Bulk Cement Spreader; Dumptor (6 yds. & under); Flaherty Spreader, box driver; Flat Bed Truck (using power take off); Fork Lift (over 3,000 lbs.) Oil Distributor Driver (road, bootman; leverman, helper); Rubber tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Transit Mixers & Trucks Hauling Concrete (over 3 yds. to 6 yds.) Trucks, side, end and bottom dump (over 6 yds. to 12 yds.); Water Tank Truck (4,001 - 6,000 gals.); Wrecker & Tow Trucks	6.90	.62	.50			

TRUCK DRIVERS (CONT'D)	Basic Hourly Rates	Fringe Benefits Payments: H & W	Pensions	Vacation	App. Tr.	Others
Group V LOW BOY (under 50 tons); Service Greaser; Tireman No. 2	$6.95	.62	.50			
Group VI A-FRAME (Swedish Crane, Iowa 3,000, hydrolift); Water Tank Truck (over 6,001 - 8,000 gals.)	7.00	.62	.50			
Group VII DUMPTOR (over 6 yds.); Transit Mixers & Trucks Hauling Concrete (6 yds. to 10 yds.) Trucks, side, end & bottom dump (over 12 yds. incl. 20 yds.)	7.05	.62	.50			
Group VIII LOW BOY (over 50 tons); Water Tank Truck (8,001 - 10,000 gals.); 10¢ for each add. 2,000 gals.	7.10	.62	.50			
Group IX TRANSIT MIXERS & TRUCKS Hauling Concrete, (10 yds. to 15 yds.); Trucks, side, end & bottom dump (over 20 yds. incl. 30 yds.)	7.20	.62	.50			
Group X TOURNADOCKER, DW'S & sim. w/2 or 4 wheel power tractor w/trailer or yardage scale whichever is greater	7.25	.62	.50			
Group XI TRANSIT MIXERS & TRUCKS Hauling Concrete (15 yds. to 20 yds.); Trucks, side, end & bottom dump (over 30 yds. to 40 yds.)	7.35	.62	.50			
Group XII TRANSIT MIXERS & TRUCKS Hauling Concrete (over 20 yds.); Trucks, side, end & bottom dump (over 40 yds. to 50 yds.)	7.50	.62	.50			
Group XIII TRUCKS, side, end and bottom dumps, (over 50 yds. to 100 yds.)	7.65	.62	.50			
Group XIV TRUCKS, side, end and bottom dump (over 100 yds.)	7.80	.62	.50			

All Counties and parts of Counties West of the 120th Meridian except Clark, Cowlitz, Klickitat, Southern part of Pacific, Skamania, and Wahkiakum Counties

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2-WAS -TD-1-2-3-a (1-2)

TRUCK DRIVERS	Basic Hourly Rates	FRINGE BENEFITS PAYMENTS H & W	Pension	Vacation	Apr. Tr.	Other
Leverman & Loaders at bunkers & batch plants; Pickup truck, Escort or Pilot car; Swampers; Warehouseman & Checkers	7.00	.54	.50		.01	
Team driver	7.05	.54	.50		.01	
Bull lifts or similar equipment used in loading or unloading trucks, warehousing; Bus or Manhaul; Dumpsters and similar equipment; Tournorockers; Tournowagon; Turnatrailer, Cat DW Series, Terra Cobra, Le Tourneau, Westinghouse, Athey wagon; Euclid; Two & four wheeled power tractor with trailer & similar top loaded equipment transporting material; Dump trucks, side, end & bottom dump, including semi-trucks & trains; Dump trucks, up to & including 5 yds.; Flatbed, single rear axle; Grease truck, fuel truck; Greaser; Battery service man; Tire service man; Scissor truck; Spreader, flaherty; Tractor, small rubber-tired; Vacuum truck; Water wagon & Tank truck, up to 1600 gals.; Winch truck, single rear axle; Wrecker, tow truck & similar equipment	7.10	.54	.50		.01	
Flatbed, dual rear axle	7.21	.54	.50		.01	
Buggymobile; Hyster operators; Straddle carrier (Ross, Hyster) and similar equipment; Water wagon & tank truck, 1600 gals. to 3000 gals.	7.27	.54	.50		.01	
Transit-mix, 0 to and including 4-1/2 yds.	7.31	.54	.50		.01	
Dump trucks, over 5 yds. to and including 12 yds.; Explosive truck (Field mix) and similar equipment; Lowbed & heavy duty trailer, under 50 tons gross; Road oil distributor driver; Slurry truck; Sno-go & similar equipment; Winch truck, dual rear axle	7.32	.54	.50		.01	
Dump trucks, over 12 yds. to & including 16 yds.	7.38	.54	.50		.01	
Bulk cement tankers; Dump trucks, over 16 yds. to & including 20 yds.; Water wagon & Tank truck, over 3000 gals.	7.43	.54	.50		.01	
Bull lifts or similar equipment used in loading or unloading trucks other than warehousing	7.45	.54	.50		.01	
Transit-mix, over 4-1/2 yds. to & including 6 yds.	7.48	.54	.50		.01	
"A"- Frame or Hydralift" trucks or similar equipment	7.58	.54	.50		.01	
Dump trucks, over 20 yds. to & including 30 yds.; Lowbed & heavy duty trailer, over 50 tons gross to & including 100 tons gross	7.60	.54	.50		.01	

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2-WAS-TD-1-2-3-a (2-2)

TRUCK DRIVERS (CONT'D)	Basic Hourly Rates	FRINGE BENEFITS PAYMENTS H & W	Pension	Vacation	Apr. Tr.	Other
Transit-mix, over 6 yds. to & including 8 yds.	7.64	.54	.50		.01	
Dump trucks, over 30 yds. to & including 40 yds.; Lowbed & heavy duty trailer, over 100 tons gross	7.76	.54	.50		.01	
Transit-mix, over 8 yds. to & including 10 yds.	7.80	.54	.50		.01	
Dump trucks, over 40 yds. to & including 55 yds.	7.92	.54	.50		.01	
Transit-mix, over 10 yds. to & including 12 yds.	7.97	.54	.50		.01	
Transit-mix, over 12 yds. to & including 16 yds.	8.13	.54	.50		.01	
Transit-mix, over 16 yds. to & including 20 yds.	8.29	.54	.50		.01	
Transit-mix over 20 yds.	8.45					
Mechanic	7.44	.54	.50		.01	
Mehcanic Helper	6.85	.54	.50		.01	

AP-283 P. 39

Clark, Cowlitz, Klickitat, Southern part of Pacific, Skamania, and Wahkiakum Counties

3-WAS-TD-2-3-c (1-3)

TRUCK DRIVERS	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS H & W	PENSIONS	VACATION	APP. TR.	OTHERS
Battery rebuilders; Bus or man-haul driver; Concrete buggies (power operated); Dump trucks, side, end & bottom dumps, incl. semi-trucks & trains or combin. thereof: 6 cu. yds. & under; Lift jitneys, fork lifts (all sizes used in loading, unloading & transporting material on job site); Loader and/or leverman on concrete dry batch plant (manually operated); Pilot car; Solo flat bed & misc. body trucks, 0-10 tons; Truck helper; Truck mechanic helper; Warehouseman (warehouse parts, tool men & parts chaser, checkers & receivers); Water wagons (rated capacity); up to 1600 gals	$6.23	.40	.45	.25		
"A" frame or hydra-lift truck w/load bearing surfaces; Lubrication man, fuel truck driver, tireman, wash rack, steam cleaner or combin.; Team drivers	6.28	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi-trucks & trains or combin. thereof: over 6 cu. yds. & incl. 10 cu. yds.; Slurry truck driver or leverman; Transit mix & wet or dry mix trucks: 5 cu. yds. & under; Tireman (full-time basis); Water wagons (rated capacity); 1600 to 3000 gals.	6.33	.40	.45	.25		
Flaherty spreader driver or leverman; Low bed equipment, flat bed semi-trailer, truck & trailer or doubles transporting equipment or wet or dry materials; Lumber carrier driver-Straddle carrier (used in loading, unloading and transporting of materials on job site); Oil distributor driver or leverman; Water wagons (rated capacity); 3000 to 5000 gals.	6.38	.40	.45	.25		
Dumpsters or similar equipment, all sizes; Transit mix & wet or dry mix trucks, over 5 cu. yds. & incl. 7 cu. yds.	6.43	.40	.45	.25		

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3-WAS-TD-1-2-3 c (2-3)

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS H & W	PENSIONS	VACATION	APP. TR.	OTHERS
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains or combin. thereof: over 10 cu. yds. & incl. 20 cu. yds.; Transit mix & wet or dry mix trucks; over 7 cu. yds. & incl. 9 cu. yds.; Truck Mechanic--welder--body repairman: Water wagons (rated capacity) 5000 to 7000 gals.	$6.53	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains of combin. thereof: over 20 cu. yds. & incl. 30 cu. yds.; Transit mix & wet or dry mix trucks: over 9 cu. yds. & incl. 11 cu. yds.; Water Wagons (rated capacity); over 7000 gals. to 10,000 gals.	6.63	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains or combin. 40 cu. yds.; Transit mix & wet or dry mix trucks: over 11 cu. yds. and incl. 13 cu. yds.; Water Wagons (rated capacity): over 10,000 gals. to 15,000 gals.	6.73	.40	.45	.25		
Dump trucks, side end & bottom dumps, incl. semi-trucks & trains or combin. thereof: over 40 cu. yds. & incl. 50 cu. yds.; Transit mix & wet or dry mix trucks: over 13 cu. yds. and incl. 15 cu. yds.	6.83	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains or combin. thereof: over 50 cu. yds. & incl. 60 cu. yds.	7.00	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi trucks & trains or combin. thereof: over 60 cu. yds. & incl. 70 cu. yds.	7.10	.40	.45	.25		
Dump trucks, side, end & bottom dumps, incl. semi truck & trains or combin. thereof: 70 cu. yds. and incl. 80 cu. yds.	7.20	.40	.45	.25		

	BASIC HOURLY RATES	FRINGE BENEFITS PAYMENTS				
		H & W	PENSIONS	VACATION	APP. TR.	OTHERS
Dump trucks, side, end & bottom dump, including semi trucks & trains or combin. thereof: over 80 cu. yds. & incl. 90 cu. yds.	$7.30	.40	.45	.25		
Dump trucks, side, end & bottom dump, incl. semi-trucks and trains or combin. thereof: over 90 cu. yds. & incl. 100 cu. yds.	7.40	.40	.45	.25		
Drivers and Helpers (handling sacked cement add $.15 per hour).						
Winch truck - takes classification of truck on which winch is mounted.						

[FR Doc.73-6478 Filed 4-5-73;8:45 am]

INDEX TO AREA WAGE DETERMINATION DECISIONS AND MODIFICATIONS AS OF MARCH 2, 1973

There is set forth below an Index to area wage determination decisions and modifications as published in the FEDERAL REGISTER pursuant to the Davis-Bacon and related Acts. The index lists area wage determination decisions and modifications by State and county. An updated index is published on the first Friday of each month.

The index is published for the convenience of the public and the Department of Labor will endeavor to keep it accurate and up to date. In the event the data in the index and published area decisions do not coincide, the published area decisions shall control.

ABBREVIATIONS

(B)—Building construction.
(D)—Dredging construction.
(F)—Flood control construction.
(H)—Heavy construction.
(Hw)—Highway construction.
(R)—Residential construction.
Mod.—Modification.

Signed at Washington, D.C., this 30th day of March 1973.

WARREN D. LANDIS,
Assistant Administrator,
Wage and Hour Division.

ALABAMA

STATEWIDE
Decision #AM-8589 (D)
37 FR 5654 - 3-17-72
Mod. #1 - 37 FR 24506 - 11/17/72

AUTAUGA COUNTY
Decision #AP-119 (Hw)
37 FR 16733 - 8-18-72
Mod. #1 - 37 FR 24507 - 11/17/72
(D) - See Statewide

BALDWIN COUNTY
Decision #AM-554 (E)
36 FR 23101 - 12-3-71
Decision #AP-118 (Hw)
37 FR 18836 - 9/15/72
Mod. #1 - 37 FR 24507 - 11/17/72
(D) - See Statewide

BARBOUR COUNTY
(D) - See Statewide
(Hw) - See Autauga County

BIBB COUNTY
(D) - See Statewide
(Hw) - See Autauga County

BLOUNT COUNTY
Decision #AM-448 (E)
36 FR 16359 - 8-20-71
(D) - See Statewide
(Hw) - See Autauga County

BULLOCK COUNTY
(D)- See Statewide
(Hw)- See Autauga County

BUTLER COUNTY
(D)- See Statewide
(Hw)- See Augauga County

CALHOUN COUNTY
Decision #AP-117 (Hw)
37 FR 16732 - 8/18/72
Mod. #1 - 37 FR 24507 - 11/17/72
(D)-See Statewide

CHAMBERS COUNTY
(D)-See Statewide
(Hw)-See Autauga County

CHEROKEE COUNTY
(D)-See Statewide
(Hw)- See Autauga County

CHILTON COUNTY
(D)-See Statewide
(Hw)-See Autauga County

CHOCTAW COUNTY
(D)-See Statewide
(Hw)-See Autauga County

ALABAMA (cont'd)

CLARKE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

CLAY COUNTY
(D) - See Statewide
(Hw) - See Autauga County

CLEBURNE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

COFFEE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

COLBERT COUNTY
Decision #AP-116 (Hw)
37 FR 18835 - 9-15-72
Mod. #1 - 37 FR 24507 - 11/17/72
(D) - See Statewide

CONECUH COUNTY
(D) - See Statewide
(Hw) - See Autauga County
(R) - See Baldwin County

COOSA COUNTY
(D) - See Statewide
(Hw) - See Autauga County

COVINGTON COUNTY
(D) - See Statewide
(Hw) - See Autauga County

CRENSHAW COUNTY
(D) - See Statewide
(Hw) - See Autauga County

CULLMAN COUNTY
(D) - See Statewide
(Hw) - See Autauga County

DALE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

DALLAS COUNTY
(D) - See Statewide
(Hw) - See Autauga County

DE KALB COUNTY
(D) - See Statewide
(Hw) - See Autauga County

ELMORE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

ESCAMBIA COUNTY
(D) - See Statewide
(Hw) - See Autauga County

ALABAMA (Cont'd)

ETOWAH COUNTY
(D) - See Statewide
(Hw) - See Calhoun County

FAYETTE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

FRANKLIN COUNTY
(D) - See Statewide
(Hw) - See Autauga County

GENEVA COUNTY
(D) - See Statewide
(Hw) - See Autauga County

GREENE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

HALE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

HENRY COUNTY
(D) - See Statewide
(Hw) - See Autauga County

HOUSTON COUNTY
(D) - See Statewide
(Hw) - See Autauga County

JACKSON COUNTY
(D) - See Statewide
(Hw) - See Autauga County

JEFFERSON COUNTY
Decision #AP-140 (B, Hw)
37 FR 25628 - 12/1/72
Mod. #1 - 38 FR 5754 - 3/2/73
(D) - See Statewide
(R) - See Blount County

LAMAR COUNTY
(D) - See Statewide
(Hw) - See Autauga County

LAUDERDALE COUNTY
(D) - See Statewide
(Hw) - See Colbert County

LAWRENCE COUNTY
(D) - See Statewide
(Hw) - See Autauga County

LEE COUNTY
(D)-See Statewide
(Hw)-See Autauga County

ALABAMA (cont'd)

LIMESTONE COUNTY
(D)-See Statewide
(Hw)-See Autauga County

LOWNDES COUNTY
(D)-See Statewide
(Hw)-See Augauga County

MACON COUNTY
(D)-See Statewide
(Hw)-See Autauga County

MADISON COUNTY
(D)-See Statewide
(Hw)- See Colbert Countyy

MARENGO COUNTY
(D)-See Statewide
(Hw)-See Autauga County

MARION COUNTY
(D)-See Statewide
(Hw)-See Autauga County

MARSHALL COUNTY
(D)-See Statewide
(Hw)-See Autauga County

MOBILE COUNTY
Decision #AP-153 (B, Hw)
38 FR 4083 - 2/9/73
Mod. #1 - 38 FR 5754 - 3/2/73
(D)-See Statewide

MONROE COUNTY
(D)-See Statewide
(Hw)-See Autauga County

MONTGOMERY COUNTY
Decision #AP-115 (B)
37 FR 16263 - 8/11/72
(D)-See Statewide
(Hw)-See Baldwin County

MORGAN COUNTY
(D)-See Statewide
(Hw)-See Colbert County

PERRY COUNTY
(D)-See Statewide
(Hw)-See Autauga County

PICKENS COUNTY
(D)-See Statewide
(Hw)-See Autauga County

ALABAMA (Cont'd)

PIKE COUNTY
(D)-See Statewide
(Hw)-See Autauga County
RANDOLPH COUNTY
(D)-See Statewide
(Hw)-See Autauga County
RUSSELL COUNTY
(D)-See Statewide
(Hw)-See Autauga County
SAINT CLAIR COUNTY
(D)-See Statewide
(Hw)-See Calhoun County
(R)-See Blount County
SHELBY COUNTY
(D)-See Statewide
(Hw)-See Calhoun County
(R)-See Blount County
SUMTER COUNTY
(D)-See Statewide
(Hw)-See Autauga County
TALLADEGA COUNTY
(D)-See Statewide
(Hw)-See Calhoun County
(R)-See Blount County
TALLAPOOSA COUNTY
(D)-See Statewide
(Hw)-See Autauga County
TUSCALOOSA COUNTY
(D)-See Statewide
(Hw)-See Calhoun County
WALKER COUNTY
(D)-See Statewide
(Hw)-See Calhoun County
WASHINGTON COUNTY
(D)-See Statewide
(Hw)-See Autauga County
WILCOX COUNTY
(D)-See Statewide
(Hw)-See Autauga County
WINSTON COUNTY
(D)-See Statewide
(Hw)-See Autauga County

ALASKA

AREA I (North of the 63rd Parallel)
Decision #AP-251 (B, H, Hw, D)
37 FR 25118 - 11/25/72
Mod. #1 - 38 FR 5084 - 2/23/73
Decision #AP-252 (R)
37 FR 25124 - 11/25/72
Mod. #1 - 38 FR 5084 - 2/23/73
AREA II (South of the 63rd Parallel & West of the 141st Meridian)
Decision #AM-2506 (B, H, Hw, D)
36 FR 17168 - 8/27/72
Mod. #1 - 37 FR 6128 - 3/24/72
Mod. #2 - 37 FR 20385 - 9/29/72
Mod. #3 - 37 FR 25103 - 11/25/72
Mod. #4 - 38 FR 2568 - 1/26/73
Mod. #5 - 38 FR 5084 - 2/23/73
Decision #AM-6726 (R)
37 FR 9157 - 5/5/72
Mod. #1 - 37 FR 17307 - 8/25/72
Mod. #2 - 37 FR 20385 - 9/29/72
Mod. #3 - 37 FR 25103 - 11/25/72
Mod. #4 - 38 FR 2568 - 1/26/73
Mod. #5 - 38 FR 5084 - 2/23/73
AREA III (East of the 141st Meridian)
Decision #AM-2507 (B, H, Hw, D)
36 FR 17173 - 8/27/71
Mod. #1 - 37 FR 6168 - 3/24/72
Mod. #2 - 37 FR 20385 - 9/29/72
Mod. #3 - 37 FR 25103 - 11/25/72
Mod. #4 - 38 FR 2568 - 1/26/73
Mod. #5 - 38 FR 5084 - 2/23/73
Decision #AM-6727 (R)
37 FR 9160 - 5/5/72
Mod. #1 - 37 FR 17307 - 8/25/72
Mod. #2 - 37 FR 20385 - 9/29/72
Mod. #3 - 37 FR 25103 - 11/25/72
Mod. #4 - 37 FR 2568 - 1/26/73
Mod. #5 - 38 FR 5084 - 2/23/73

ARIZONA

STATEWIDE
Decision #AP-258 (H, Hw)
38 FR 1440 - 1/12/73

ARIZONA (cont'd)

APACHE COUNTY
(H, Hw) - See Statewide
COCHISE COUNTY
(H, Hw) - See Statewide
Decision #AP-222 (B)
37 FR 16744 - 8/18/72
Mod. #1 - 37 FR 19871 - 9/22/72
Mod. #2 - 37 FR 21695 - 10/13/72
Mod. #3 - 37 FR 23497 - 11/3/72
Mod. #4 - 38 FR 2007 - 1/19/73
COCONINO COUNTY
(H, Hw) - See Statewide
GILA COUNTY
(H, Hw) - See Statewide
GRAHAM COUNTY
(H, Hw) - See Statewide
MARICOPA COUNTY
(H, Hw) - See Statewide
Decision #AP-221 (B)
37 FR 16737 - 8/18/72
Mod. #1 - 37 FR 21217 - 10/6/72
Mod. #2 - 37 FR 21694 - 10/13/72
Mod. #3 - 38 FR 2007 - 1/19/73
Decision #AP-259 (R)
38 FR 2022 - 1/19/73
MOHAVE COUNTY
(H, Hw) - See Statewide
NAVAJO COUNTY
(H, Hw) - See Statewide
PIMA COUNTY
(H, Hw) - See Statewide
(B) - See Cochise County
Decision #AP-260 (R)
38 FR 2027 - 1/19/73
PINAL COUNTY
(H, Hw) - See Statewide
SANTA CRUZ COUNTY
(H, Hw) - See Statewide
YAVAPAI COUNTY
(H, Hw) - See Statewide
YUMA COUNTY
(H, Hw) - See Statewide

ARKANSAS

STATEWIDE
Decision #AP-701 (Hw)
38 FR 4078 - 1/19/73
Decision #AM-8,589 (D)
37 FR 5654 - 3-17-72
Mod. #1 - 37 FR 24506 - 11/17/72
ARKANSAS COUNTY
(Hw) - See Statewide
(D) - See Statewide
Decision #AM-8588 (F)
37 FR 5654 - 3-17-72
Mod. #1 - 37 FR 8601 - 4-28-72
Mod. #2 - 37 FR 24506 - 11/17/72
ASHLEY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
BAXTER COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
BENTON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
BOONE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
BRADLEY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CALHOUN COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CARROLL COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CHICOT COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CLARK COUNTY
(Hw) - See Statewide

ARKANSAS (Cont'd)

CLARK COUNTY (Cont'd)
(D) - See Statewide
(F) - See Arkansas County
CLAY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CLEBURNE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CLEVELAND COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
COLUMBIA COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CONWAY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CRAIGHEAD COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CRAWFORD COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CRITTENDEN COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
CROSS COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
DALLAS COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
DESHA COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County

ARKANSAS (Cont'd)

DREW COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
FAULKNER COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
FRANKLIN COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
FULTON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
GARLAND COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
GRANT COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
GREENE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
HEMPSTEAD COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
HOT SPRING COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
HOWARD COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
INDEPENDENCE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
IZARD COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County

ARKANSAS (Cont'd)

JACKSON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
JEFFERSON COUNTY
(Hw) - See Statewide
(D) - See Statewide
JOHNSON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LAFAYETTE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LAWRENCE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LEE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LINCOLN COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LITTLE RIVER COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LOGAN COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
LONOKE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
MADISON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
MARION COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County

ARKANSAS (Cont'd)

MILLER COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
MISSISSIPPI COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
MONROE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
MONTGOMERY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
NEVADA COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
NEWTON COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
OUACHITA COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
PERRY COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
PHILLIPS COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
PIKE COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
POINSETT COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County
POLK COUNTY
(Hw) - See Statewide
(D) - See Statewide
(F) - See Arkansas County

ARKANSAS (cont'd)

POPE COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
PRAIRIE COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
PULASKI COUNTY
(Hw)-See Statewide
(D)-See Statewide
Decision #AP-365 (B)
37 FR 26203 - 12/8/72
Mod. #1 - 38 FR 1434 - 1/2/73
Mod. #2 - 38 FR 5084 - 2/23/73
Decision #AP-356 (R)
37 FR 23489 - 11/3/72
RANDOLPH COUNTY
(HW)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
ST. FRANCIS COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
SALINE COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
SCOTT COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
SEARCY COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
SEBASTIAN COUNTY
(Hw)-See Statewide
(D)-See Statewide
SEVIER COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County

ARKANSAS (cont'd)

SHARP COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
STONE COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
UNION COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
Decision #AP-703 (B)
38 FR 4623 - 2/16/73
VAN BUREN COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
WASHINGTON COUNTY
(Hw)- See Statewide
(DO-See Statewide
(F)-See Arkansas County
WHITE COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
WOODRUFF COUNTY
(Hw)-See Statewide
(D)-See Statewide
(F)-See Arkansas County
YELL COUNTY
(Hw)- See Statewide
(D)-See Statewide
(F)-See Arkansas County

CALIFORNIA

ALAMEDA COUNTY
Decision #AP-235 (B-H-Hw-D)
37 FR 18837 - 9-15-72
Mod. #1 - 37 FR 24508 - 11/17/72
Mod. #2 - 37 FR 28341 - 12/22/72
Mod. #3 - 38 FR 4620 - 2/16/73
Decision #AP-246 (R)
37 FR 21728 - 10-13-72
Mod. #1 - 37 FR 24509 - 11/17/72
Mod. #2 - 37 FR 28342 - 12/22/72
Mod. #3 - 38 FR 4075 - 2/9/73
ALPINE COUNTY
(B-H-Hw-D) - See Alameda County
AMADOR COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
BUTTE COUNTY
(B-H-Hw-D) - See Alameda County
CALAVERAS COUNTY
(B-H-Hw-D) - See Alameda County
COLUSA COUNTY
(B-H-Hw-D) - See Alameda County
CONTRA COSTA COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
DELNORTE COUNTY
(B-H-Hw-D) - See Alameda County
EL DORADO COUNTY
(B-H-Hw-D) - See Alameda County
FRESNO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County

CALIFORNIA (Cont'd)

GLENN COUNTY
(B-H-Hw-D) - See Alameda County
HUMBOLDT COUNTY
(B-H-Hw-D) - See Alameda County
IMPERIAL COUNTY
Decision #AP-248 (B-H-Hw-D)
37 FR 21740 - 10-13-72
Mod. #1 - 37 FR 23697 - 11/10/72
Mod. #2 - 38 FR 935 - 1/5/73
Mod. #3 - 38 FR 4074 - 2/9/73
Mod. #4 - 38 FR 5756 - 3/2/73
Decision #AP-245 (R)
37 FR 21721 - 10/13/72
Mod. #1 - 37 FR 23967 -11/10/72
Mod. #2 - 38 FR 935 - 1/5/73
Mod. #3 - 38 FR 4074 - 2/9/73
Mod. #4 - 38 FR 5754 - 3/2/73
INYO COUNTY
(B-H-Hw-D) - See Imperial County
KERN COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
KING COUNTY
(B-H-Hw-D) - See Alameda County
LAKE COUNTY
(B-H-Hw-D) - See Alameda County
LASSEN COUNTY
(B-H-Hw-D) - See Alameda County
LOS ANGELES COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
MADERA COUNTY
(B-H-Hw-D) - See Alameda County
MARIN COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County

CALIFORNIA (Cont'd)

MARIPOSA COUNTY
(B-H-Hw-D) - See Alameda County
MENDOCINO COUNTY
(B-H-Hw-D) - See Alameda County
MERCED COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
MODOC COUNTY
(B-H-Hw-D) - See Alameda County
MONO COUNTY
(B-H-Hw-D) - See Imperial County
MONTEREY COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
NAPA COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
NEVADA COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
ORANGE COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
PLACER COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
PLUMAS COUNTY
(B-H-Hw-D) - See Alameda County
RIVERSIDE COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
SACRAMENTO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SAN BENITO COUNTY
(B-H-Hw-D) - See Alameda County
SAN BERNARDINO COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
SAN DIEGO COUNTY
Decision #AP-255 (B-H-Hw-D)
37 FR 28808 - 12/29/72
Mod. #1 - 38 FR 4076 - 2/9/73

CALIFORNIA (Cont'd)

SAN DIEGO COUNTY (Cont'd)
Decision #AP-256 (R)
37 FR 28814 - 12/29/72
Mod. #1 - 38 FR 4076 - 2/9/73
SAN FRANCISCO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SAN JOAQUIN COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SAN LUIS OBISPO COUNTY
(B-H-Hw-D) - See Imperial County
SAN MATEO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SANTA BARBARA COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
SANTA CLARA COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SANTA CRUZ COUNTY
(B-H-Hw-D) - See Alameda County
SHASTA COUNTY
(B-H-Hw-D) - See Alameda County
SIERRA COUNTY
(B-H-Hw-D) - See Alameda County
SISKIYOU COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SOLANO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
SONOMA COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
STANISLAUS COUNTY
(B-H-Hw-D) - See Alameda County
SUTTER COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
TEHAMA COUNTY
(B-H-Hw-D) - See Alameda County
TRINITY COUNTY
(B-H-Hw-D) - See Alameda County

CALIFORNIA (Cont'd)

TULARE COUNTY
(B-H-Hw-D) - See Alameda County
TUOLUMNE COUNTY
(B-H-Hw-D) - See Alameda County
VENTURA COUNTY
(B-H-Hw-D) - See Imperial County
(R) - See Imperial County
YOLO COUNTY
(B-H-Hw-D) - See Alameda County
(R) - See Alameda County
YUBA COUNTY
(B-H-Hw-D) -See Alameda County
(R) - See Alameda County

COLORADO

STATEWIDE
Decision #AP-232 (Hw)
37 - FR 18854 - 9-15-72
Mod. #1 - 38 FR 5085 - 2/23/73
Mod. #1 - 37 FR 28343 - 12/22/72
Mod. #2 - 38 FR 5085 - 2/23/73
ADAMS COUNTY
(Hw) - See Statewide
Decision #AP-234 (B-H-Hw)
37 FR 18868 - 9-15-72
Mod. #1 - 37 FR 28348 - 12/22/72
Mod. #2 - 38 FR 5085 - 2/23/73
Decision #AM-6,723 (R)
37 FR 7921 - 4-21-72
ALAMOSA COUNTY
(Hw) - See Statewide
ARAPAHOE COUNTY
(Hw) - See Statewide
(B-H-Hw) - See Adams County
(R) - See Adams County
ARCHULETA COUNTY
(Hw) - See Statewide
BACA COUNTY
(Hw) - See Statewide
BENT COUNTY
(Hw) - See Statewide
BOULDER COUNTY
(Hw) - See Statewide
(B-H-Hw)(Southeast Portion incl. City of Boulder) - See Adams Co.
(R) - See Adams County
CHAFFEE COUNTY
(Hw) - See Statewide
CHEYENNE COUNTY
(Hw) - See Statewide

COLORADO (cont'd)

CLEAR CREEK
(Hw) - See Statewide
(R) - See Adams County
CONEJOS COUNTY
(Hw) - See Statewide
COSTILLA COUNTY
(Hw) - See Statewide
CROWLEY COUNTY
(Hw) - See Statewide
CUSTER COUNTY
(Hw) - See Statewide
DELTA COUNTY
(Hw) - See Statewide
DENVER COUNTY
(Hw) - See Statewide
(B-H-Hw) - See Adams County
(R) - See Adams County
DOLORES COUNTY
(Hw) - See Statewide
DOUGLAS COUNTY
(Hw) - See Statewide
(B-H-Hw) - See Adams County (Northern Portion)
(R) - See Adams County
EAGLE COUNTY
(Hw) - See Statewide
ELBERT COUNTY
(Hw) - See Statewide
(B-H-Hw) (Northern Portion) See Adams County
(R) - See Adams County
EL PASO COUNTY
(Hw) - See Statewide
Decision #AP-233 (B, H, Hw)
37 FR 18861 - 9/15/72
Mod. #1 - 37 FR 28345 - 12/22/72
Mod. #2 - 38 FR 5085 - 2/23/73
FREMONT COUNTY
(Hw) - See Statewide
GARFIELD COUNTY
(Hw) - See Statewide
GILPIN COUNTY
(Hw) - See Statewide
(R) - See Adams County
GRAND COUNTY
(Hw) - See Statewide
GUNNISON COUNTY
(Hw) - See Statewide
HINSDALE COUNTY
(Hw) - See Statewide
HUERFANO COUNTY
(Hw) - See Statewide

COLORADO (Cont'd)

JACKSON COUNTY
(Hw) - See Statewide
JEFFERSON COUNTY
(Hw) - See Statewide
(B-H-Hw) - See Adams County
(R) - See Adams County
KIOWA COUNTY
(Hw) - See Statewide
KIT COUNTY
(Hw) - See Statewide
LAKE COUNTY
(Hw) - See Statewide
LAPLATA COUNTY
(Hw) - See Statewide
LARIMER COUNTY
(Hw) - See Statewide
LAS ANIMAS COUNTY
(Hw) - See Statewide
LINCOLN COUNTY
(Hw) - See Statewide
LOGAN COUNTY
(Hw) - See Statewide
MESA COUNTY
(Hw) - See Statewide
MINERAL COUNTY
(Hw) - See Statewide
MOFFAT COUNTY
(Hw) - See Statewide
MONTEZUMA COUNTY
(Hw) - See Statewide
MONTROSE COUNTY
(Hw) - See Statewide
MORGAN COUNTY
(Hw) - See Statewide
OTERO COUNTY
(Hw) - See Statewide
OURAY COUNTY
(Hw) - See Statewide

COLORADO (Cont'd)

PARK COUNTY
(Hw) - See Statewide
PHILLIPS COUNTY
(Hw) - See Statewide
PITKIN COUNTY
(Hw) - See Statewide
PROWERS COUNTY
(Hw) - See Statewide
PUEBLO COUNTY
(Hw) - See Statewide
RIO BLANCO COUNTY
(Hw) - See Statewide
RIO GRANDE COUNTY
(Hw) - See Statewide
ROUTT COUNTY
(Hw) - See Statewide
SAGUACHE COUNTY
(Hw) - See Statewide
SAN JUAN COUNTY
(Hw) - See Statewide
SAN MIGUEL COUNTY
(Hw) - See Statewide
SEDGWICK COUNTY
(Hw) - See Statewide
SUMMIT COUNTY
(Hw) - See Statewide
TELLER COUNTY
(Hw) - See Statewide
WASHINGTON COUNTY
(Hw) - See Statewide
WELD COUNTY
(Hw) - See Statewide
(B-H-Hw)(Southwest Portion) - See Adams County
YUMA COUNTY
(Hw) - See Statewide

CONNECTICUT

FAIRFIELD COUNTY
Decision #AP-445 (B,H,Hw)
37 FR 25130 - 11/25/72
Decision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
HARTFORD COUNTY
Decision #AP-446 (B, H, Hw)
37 FR 25134 - 11/25/72
LITCHFIELD COUNTY
Decision #AP-447 (B, H, Hw)
37 FR 25137 - 11/25/72
MIDDLESEX COUNTY
Decision #AP-436 (B, H, Hw)
37 FR 21753 - 10/13/72
Mod. #1 - 37 FR 25103 - 11/25/72
(D)-See Fairfield County
NEW HAVEN COUNTY
Decision #AP-448 (B, H, Hw)
37 FR 25140 - 11/25/72
(D)-See Fairfield County
NEW LONDON COUNTY
Decision #449 (B, H, Hw)
37 FR 25144 - 11/25/72
(D)-See Fairfield County
TOLLAND COUNTY
Decision #AP-434 (B, H, Hw)
37 FR 21234 - 10/6/72
Mod. #1 - 37 FR 25103 - 11/25/72
WINDHAM COUNTY
Decision #AP-437 (B, H, Hw)
37 FR 21756 - 10/13/72
Mod. #1 - 37 FR 25103 - 11/25/72

DELAWARE

STATEWIDE
Decision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
Decision #AP-444 (B, H, Hw)
37 FR 24517 - 11/17/72
Mod. #1 - 37 FR 26198 - 12/8/72
Mod. #2 - 37 FR 28350 - 12/22/72
Mod. #3 - 37 FR 28799 - 12/29/72
Mod. #4 - 38 FR 3246 - 2/2/73
Mod. #5 - 38 FR 5758 - 3/2/73
KENT COUNTY
(D) - See Statewide
(B,H,Hw) - Statewide

CONNECTICUT (cont'd)

NEW CASTLE COUNTY
(D) - See Statewide
(B,H,Hw) - See Statewide
SUSSEX COUNTY
(D) - See Statewide
(B,H,Hw) - See Statewide

FLORIDA

ALACHUA COUNTY
Decision #AP-121 (B,H,Hw)
37 FR 21237 - 10-6-72
Mod. #1-37 FR 25104 - 11/25/72
Mod. #2-38 FR 3246 - 2/2/73
Mod. #3-38 FR 5086 - 2/23/73
Decision #AM-462 (R)
37 FR 16406 - 8-20-71
BAKER COUNTY
Decision #AP-463 (R)
36 FR 16407 - 8-20-71
BAY COUNTY
Decision #AP-122 (B,H,Hw)
37 FR 21240 - 10-6-72
Mod. #1 - 38 FR 5086 - 2/23/73
Decision #AM-8589 (D)
37 FR 5654 - 3-17-72
Mod. #1-37 FR 24506 - 11/17/72
BRADFORD COUNTY
None
BREVARD COUNTY (Cape Kennedy Kennedy Space Flight Center & Patrick AFB only)
Decision #AP-128 (B,H,Hw)
37 FR 24535 - 11/17/72
Mod. #1-37 FR 26778 - 12/15/72
Decision #AM-8590 (D)
37 FR 5655 - 3-17-72
Mod. #1-37 FR 24506 - 11/17/72
BROWARD COUNTY
Decision #AP-123 (B,H,Hw)
37 FR 24521 - 11/17/72
Mod. #1-37 FR 26777 - 12/15/72
Mod. #2-38 FR 3246 - 2/2/73
Mod. #3-38 FR 5086 - 2/23/73
(D) - See Brevard County
CALHOUN COUNTY
None
CHARLOTTE COUNTY
(D) - See Brevard County
CITRUS COUNTY
(D) - See Brevard County
CLAY COUNTY
(R) - See Baker County

FLORIDA (cont'd)

COLLIER COUNTY
(D) - See Brevard County
COLUMBIA COUNTY
None
DADE COUNTY
Decision #AP-127 (B,H,Hw)
37 FR 24531 - 11/17/72
Mod. #1-37 FR 26777 - 12/15/72
Mod. #2-38 FR 2007 - 1/19/73
Mod. #3-38 FR 3246 - 2/2/73
Mod. #4-38 FR 5084 - 2/23/73
(D)-See Brevard County
DESOTO COUNTY
None
DIXIE COUNTY
(D)-See Brevard County
(R)-See Alachua County
DUVAL COUNTY
Decision #AP-131 (B, H, Hw)
37 FR 28362 - 12/22/72
Mod. #1-38 FR 3246 - 2/2/73
Mod. #2-38 FR 5087 - 2/23/73
(D) - See Brevard County
(R) - See Baker County
ESCAMBIA COUNTY
Decision #AP-105 (B,H,Hw)
37 FR 13939 - 7-14-72
Mod. #1-37 FR 15795 - 8-4-72
Mod. #2-37 FR 17900 - 9-1-72
(Decision #AM-464 (R)
36 FR 16408 - 8-20-71
(D) - See Bay County
FLAGLER COUNTY
(D) - See Brevard County
FRANKLIN COUNTY
(D) - See Bay County
GADSDEN COUNTY
Decision #AM-465 (R)
36 FR 16409 - 8-20-71
GILCHRIST COUNTY
(R) - See Alachua County
GLADES COUNTY
None
GULF COUNTY
(D) - See Bay County
HAMILTON COUNTY
None

FLORIDA (cont'd)

HARDEE COUNTY
None
HENDRY COUNTY
None
HERNANDO COUNTY
(D) - See Brevard County
HIGHLANDS COUNTY
None
HILLSBOROUGH COUNTY
Decision #AP-125 (B,H,Hw)
37 FR 24525 - 11/17/72
Mod. #1-37 FR 26777 - 12/15/72
Mod. #2-38 FR 5086 - 2/23/73
(D) - See Brevard County
HOLMES COUNTY
None
INDIAN RIVER COUNTY
(D) - See Brevard County
JACKSON COUNTY
None
JEFFERSON COUNTY
(D) - See Bay County
(R) - See Gadsden County
LAFAYETTE COUNTY
(R) - See Alachua County
LAKE COUNTY
Decision #AM-467 (R)
36 FR 16411 - 8/20/71
LEE COUNTY
(D) - See Brevard County
LEON COUNTY
Decision #AP-142 (B, H, Hw)
37 FR 28365 - 12/22/72
Mod. #1 - 38 FR 5086 - 2/23/73
LEVY COUNTY
(D) - See Brevard County
(R) - See Alachua County
LIBERTY COUNTY
None
MADISON COUNTY
(R) - See Gadsden County
MANATEE COUNTY
(D) - See Brevard County
MARION COUNTY
(R) - See Alachua County
MARTIN COUNTY
(D) - See Brevard County

FLORIDA (Cont'd)

MONROE COUNTY
Decision #AP-124 (B, H, Hw)
37 FR 24524 - 11/17/72
Mod. #1 - 37 FR 26777 - 12/15/72
Mod. #2 - 38 FR 3246 - 2/2/73
Mod. #3 - 38 FR 5086 - 2/23/73
(D) - See Brevard County
NASSAU COUNTY
(D) - See Brevard County
(R) - See Baker County
OKALOOSA COUNTY
(B,H,Hw) - See Escambia
(D) - See Bay County
Decision #AM-466 (R)
36 FR 6410 - 8/20/71
OKEECHOBEE COUNTY
None
ORANGE COUNTY
Decision #AP-130 (B, H, Hw)
37 FR 28359 - 12/22/72
Mod. #1 - 38 3246 - 2/2/73
Mod. #2 - 38 FR 5087 - 2/23/73
Mod. #3 - 38 FR 5758 - 3/2/73
(R) - See Lake County
OSCEOLA COUNTY
(R) - See Lake County
PALM BEACH COUNTY
Decision #AP-129 (B,H,Hw)
37 FR 26233 - 12/8/72
Mod #1 - 38 FR 3246 - 2/2/73
(D) - See Brevard County
PASCO COUNTY
(D) - See Brevard County
PINELLAS COUNTY
Decision #AP-126 (B,H,Hw)
37 FR 24528 - 11/17/72
Mod. #1-37 FR 26777 - 12/15/72
Decision #AM-468 (R)
36 FR 16412 - 8-20-71
(D) - See Brevard County

FLORIDA (cont'd)

POLK COUNTY
None
PUTNAM COUNTY
(R) - See Baker County
ST. JOHNS COUNTY
(D) - See Brevard County
(R) - See Baker County
ST. LUCIE COUNTY
(D) - See Brevard County
SANTA ROSA COUNTY
(B,H,Hw) - See Escambia County
(D) - See Bay County
(R) - See Okaloosa County
SARASOTA COUNTY
(D) - See Brevard County
SEMINOLE COUNTY
(R) - See Lake County
SUMTER COUNTY
None
SUWANNEE COUNTY
(R) - See Baker County
TAYLOR COUNTY
(D) - See Brevard County
(R) - See Gadsden County
UNION COUNTY
(R) - See Alachua County
VOLUSIA COUNTY (Cape Kennedy, Kennedy Space Flight Center & Patrick Air Force Base only)
(B, H, Hw) - See Brevard County
(D) - See Brevard County
WAKULLA COUNTY
(D) - See Bay County
WALTON COUNTY
(B, H, Hw) - See Escambia County
(D) - See Bay County
(R) - See Okaloosa County
WASHINGTON COUNTY
None

GEORGIA

APPLING COUNTY
Decision #AM-473 (Hw)
36 FR 16421 - 8/20/71
ATKINSON COUNTY
(Hw) - See Appling County
BACON COUNTY
(Hw) - See Appling County
BAKER COUNTY
(Hw) - See Appling County
BALDWIN COUNTY
Decision #AM-472 (Hw)
36 FR 16420 - 8/20/71
BANKS COUNTY
Decision AM-471 (Hw)
36 FR 16419 - 8/20 71
BARROW COUNTY
(Hw) - See Banks County
BARTOW COUNTY
(Hw) - See Banks County
BEN HILL COUNTY
(Hw) - See Appling County
BERRIEN COUNTY
(Hw) - See Appling County
BIBB COUNTY
(hw) - See Baldwin County
BLECKLEY COUNTY
(Hw) - See Appling County
BRANTLEY COUNTY
(Hw) - See Appling County

GEORGIA (Cont'd)

BROOKS COUNTY
(Hw) - See Appling County
BRYAN COUNTY
Decision #AM-475 (Hw)
36 FR 16424 - 8-20-71
Decision #AP-439 (D)
37 FR 22701 - 10-20-72
BULLOCH COUNTY
(Hw) - See Appling County
BURKE COUNTY
(Hw) - See Baldwin County
BUTTS COUNTY
(Hw) - See Baldwin County
CALHOUN COUNTY
(Hw) - See Calhoun County
CAMDEN COUNTY
(D) - See Bryan County
(Hw) - See Appling County
CANDLER COUNTY
(Hw) - See Appling County
CARROLL COUNTY
(Hw) - See Baldwin County
CATOOSA COUNTY
(Hw) - See Banks County
CHARLTON COUNTY
(Hw) - See Appling County
CHATHAM COUNTY
Decision #AP-148 (B, H, Hw)
38 FR 1457 - 1/12/73
Mod. #1 - 38 FR 4621 - 2/16/73

GEORGIA (Cont'd)

CHATHAM COUNTY
Decision #AP-151 (R)
38 FR 4088 - 2/9/73
(D) - See Bryan County
CHATTAHOOCHEE COUNTY
(Hw) - See Baldwin County
CHATTOOGA COUNTY
(Hw) - See Banks County
CHEROKEE COUNTY
(Hw) - See Banks County
CLARKE COUNTY
(Hw) - See Baldwin County
CLAY COUNTY
(Hw) - See Appling County
CLAYTON COUNTY
Decision #AM-474 (Hw)
36 FR 16423 - 8-20-71
(B,H) - See Fulton County
(R) - See Fulton County
CLINCH COUNTY
(Hw) - See Appling County
COBB COUNTY
(B,H,Hw) - See Fulton County
(R) - See Fulton County
COFFEE COUNTY
(Hw) - See Appling County
COLQUITT COUNTY
(Hw) - See Appling County
COLUMBIA COUNTY
(Hw) - See Baldwin County
COOK COUNTY
(Hw) - See Appling County
COWETA COUNTY
(Hw) - See Baldwin County
CRAWFORD COUNTY
(Hw) - See Baldwin County
CRISP COUNTY
(Hw) - See Baldwin County
DADE COUNTY
(Hw) - See Banks County
DAWSON COUNTY
(Hw) - See Banks County
DECATUR COUNTY
(Hw) - See Appling County
DeKALB COUNTY
(B,H,Hw) - See Fulton County
(R) - See Fulton County

GEORGIA (Cont'd)

DODGE COUNTY
(Hw) - See Appling County
DOOLY COUNTY
(Hw) - See Baldwin County
DOUGHERTY COUNTY
(Hw) - See Appling County
DOUGLAS COUNTY
(Hw) - See Banks County
EARLY COUNTY
(Hw) - See Appling County
ECHOLS COUNTY
(Hw) - See Appling County
EFFINGHAM COUNTY
(Hw) - See Appling County
ELBERT COUNTY
(Hw) - See Banks County
EMANUEL COUNTY
(Hw) - See Baldwin County
EVANS COUNTY
(Hw) - See Appling County
FANNIN COUNTY
(Hw) - See Banks County
FAYETTE COUNTY
(Hw) - See Baldwin County
FLOYD COUNTY
(Hw) - See Banks County
FORSYTH COUNTY
(Hw) - See Banks County
FRANKLIN COUNTY
(Hw) - See Banks County

FULTON COUNTY
Decision #AP-149 (B, H, Hw)
38 FR 1453 - 1/12/73
Mod. #1 - 38 FR 4621 - 2/16/73
Decision #AP-150 (R)
38 FR 3254 - 2/2/73
Mod. #1 - 38 FR 5088 - 2/23/73
GILMER COUNTY
(Hw) - See Banks County
GLASCOCK COUNTY
(Hw) - See Baldwin County
GLYNN COUNTY
(D) - See Bryan County
(Hw) - See Appling County
GORDON COUNTY
(Hw) - See Banks County
GRADY COUNTY
(Hw) - See Appling County

GEORGIA (Cont'd)

GWINNETT COUNTY
(Hw) - See Banks County
HABERSHAM COUNTY
(Hw) - See Banks County
HALL COUNTY
(Hw) - See Banks County
HANCOCK COUNTY
(Hw) - See Baldwin County
HARALSON COUNTY
(Hw) - See Banks County
HARRIS COUNTY
(Hw) - See Baldwin County
HART COUNTY
(Hw) - See Banks County
HEARD COUNTY
(Hw) - See Baldwin County
HENRY COUNTY
(Hw) - See Clayton County
HOUSTON COUNTY
(Hw) - See Baldwin County
IRWIN COUNTY
(Hw) - See Appling County
JACKSON COUNTY
(Hw) - See Banks County
JASPER COUNTY
(Hw) - See Baldwin County
JEFF DAVIS COUNTY
(Hw) - See Appling County
JEFFERSON COUNTY
(Hw) - See Baldwin County
JENKINS COUNTY
(Hw) - See Baldwin County
JOHNSON COUNTY
(Hw) - See Baldwin County
JONES COUNTY
(Hw) - See Baldwin County
LAMAR COUNTY
(Hw) - See Baldwin County
LANIER COUNTY
(Hw) - See Appling County
LAURENS COUNTY
(Hw) - See Appling County
LEE COUNTY
(Hw) - See Appling County
LIBERTY COUNTY
(D) - See Bryan County
(Hw) - See Bryan County
LINCOLN COUNTY
(Hw) - See Baldwin County

GEORGIA (Cont'd)

LONG COUNTY
(Hw) - See Appling County
LOWNDES COUNTY
(Hw) - See Appling County
LUMPKIN COUNTY
(Hw) - See Banks County
McDUFFIE COUNTY
(Hw) - See Baldwin County
McINTOSH COUNTY
(D) - See Bryan County
(Hw) - See Appling County
MACON COUNTY
(Hw) - See Baldwin County
MADISON COUNTY
(Hw) - See Banks County
MARION COUNTY
(Hw) - See Baldwin County
MERIWETHER COUNTY
(Hw) - See Baldwin County
MILLER COUNTY
(Hw) - See Appling County
MITCHELL COUNTY
(Hw) - See Appling County
MONROE COUNTY
(Hw) - See Baldwin County
MONTGOMERY COUNTY
(Hw) - See Appling County
MORGAN COUNTY
(Hw) - See Baldwin County
MURRAY COUNTY
(Hw) - See Banks County
MUSCOGEE COUNTY
(Hw) - See Baldwin County
NEWTON COUNTY
(Hw) - See Baldwin County
OCONEE COUNTY
(Hw) - See Baldwin County
OGLETHORPE COUNTY
(Hw) - See Baldwin County
PAULDING COUNTY
(Hw) - See Banks County
PEACH COUNTY
(Hw) - See Baldwin County
PICKENS COUNTY
(Hw) - See Banks County
PIERCE COUNTY
(Hw) - See Appling County
PIKE COUNTY
(Hw) - See Baldwin County

GEORGIA (Cont'd)

POLK COUNTY
(Hw) - See Banks County
PULASKI COUNTY
(Hw) - See Baldwin County
PUTNAM COUNTY
(Hw) - See Baldwin County
QUITMAN COUNTY
(Hw) - See Appling County
RABUN COUNTY
(Hw) - See Banks County
RANDOLPH COUNTY
(Hw) - See Appling County
RICHMOND COUNTY
(Hw) - See Baldwin County
ROCKDALE COUNTY
(Hw) - See Baldwin County
SCHLEY COUNTY
(Hw) - See Baldwin County
SCREVEN COUNTY
(Hw) - See Baldwin County
SEMINOLE COUNTY
(Hw) - See Appling County
SPALDING COUNTY
(Hw) - See Baldwin County
STEPHENS COUNTY
(Hw) - See Banks County
STEWART COUNTY
(Hw) - See Baldwin County
SUMTER COUNTY
(Hw) - See Baldwin County
TALBOT COUNTY
(Hw) - See Baldwin County
TALIAFERRO COUNTY
(Hw) - See Baldwin County
TATTNALL COUNTY
(Hw) - See Appling County
TAYLOR COUNTY
(Hw) - See Baldwin County
TELFAIR COUNTY
(Hw) - See Appling County
TERRELL COUNTY
(Hw) - See Appling County
THOMAS COUNTY
(Hw) - See Appling County
TIFT COUNTY
(Hw) - See Appling County
TOOMBS COUNTY
(Hw) - See Appling County

GEORGIA (Cont'd)

TOWNS COUNTY
(Hw) - See Banks County
TREUTLEN COUNTY
(Hw) - See Appling County
TROUP COUNTY
(Hw) - See Baldwin County
TURNER COUNTY
(Hw) - See Appling County
TWIGGS COUNTY
(Hw) - See Baldwin County
UNION COUNTY
(Hw) - See Banks County
UPSON COUNTY
(Hw) - See Baldwin County
WALKER COUNTY
(Hw) - See Banks County
WALTON COUNTY
(Hw) - See Baldwin County
WARE COUNTY
Decision #AP-155 (B)
38 FR 4073 - 2/9/73
Mod. #1 - 38 FR 5088 - 2/23/73
Decision #AP-160 (H)
38 FR 5083 - 2/23/73
(Hw) - See Appling County
WARREN COUNTY
(Hw) - See Baldwin County
WASHINGTON COUNTY
(Hw) - See Baldwin COunty
WAYNE COUNTY
(Hw) - See Appling County
WEBSTER COUNTY
(Hw) - See Baldwin County
WHEELER COUNTY
(Hw) - See Appling County
WHITE COUNTY
(Hw) - See Banks County
WHITFIELD COUNTY
(Hw) - See Banks County
WILCOX COUNTY
(Hw) - See Baldwin County
WILKES COUNTY
(Hw) - See Baldwin County
WILKINSON COUNTY
(Hw) - See Baldwin County
WORTH COUNTY
(Hw) - See Appling County

HAWAII

STATEWIDE
Decision #AP-247 (R)
37 FR 21759 - 10-13-72
Mod. #1 38 FR 5088 - 2/23/73
Decision #AP-208 (B,H,Hw)
37 FR 15797 - 8-4-72
Mod. #1-37 FR 21697 - 10-13-72
Mod. #2-38 FR 5088 - 2/23/73
HAWAII COUNTY
(B-H-Hw) - See Statewide
(R) - See Statewide
HONOLULU COUNTY
(B-H-Hw) - See Statewide
(R) - See Statewide
KAUAI COUNTY
(B-H-Hw) - See Statewide
(R)-See Statewide
MAUI COUNTY
(B-H-Hw) - See Statewide
(R)-See Statewide

IDAHO

ADA COUNTY
Decision #AP-228 (B-H-Hw)
37 FR 17352 - 8-25-72
Mod. #1-37 FR 20388 - 9-29-72
Mod. #2-38 FR 1434 - 1/12/73
Decision #AP-257 (R)
38 FR 1459 - 1/12/73
ADAMS COUNTY
(B-H-Hw) - See Ada County
BANNOCK COUNTY
Decision #AP-226 (B-H-Hw)
37 FR 17328 - 8-25-72
Mod. #1-37 FR 20386 - 9-29-72
BEAR LAKE COUNTY
(B-H-Hw) - See Bannock County
BENEWAH COUNTY
Decision #AP-227 (B-H-Hw)
37 FR 17332 - 8-25-72
Mod. #1-37 20387 - 9-29-72
Mod. #2-37 FR 21698 - 10-12-72
Mod. #3-37 FR 23052 - 10-27-72
Mod. #4-38 FR 3247 - 2/2/73
BINGHAM COUNTY
(B-H-Hw) - See Bannock County

IDAHO (cont'd)

BLAINE COUNTY
(B-H-Hw) - See Ada County
BOISE COUNTY
(B-H-Hw) - See Ada County
BONNER COUNTY
(B-H-Hw) - See Benewah County
BONNEVILLE COUNTY
(B-H-Hw) - See Bannock County
BOUNDARY COUNTY
(B-H-Hw) - See Benewah County
BUTTE COUNTY
(B-H-Hw) - See Ada County
CAMAS COUNTY
(B-H-Hw) - See Ada County
CANYON COUNTY
(B-H-Hw) - See Ada County
CARIBOU COUNTY
(B-H-Hw) - See Bannock County
CASSIA COUNTY
(B-H-Hw) - See Ada County
CLARK COUNTY
(B-H-Hw) - See Bannock County
CLEARWATER COUNTY
(B-H-Hw) - See Benewah County
CUSTER COUNTY
(B-H-Hw) - See Ada County
ELMORE COUNTY
(B-H-Hw) - See Ada County
FRANKLIN COUNTY
(B-H-Hw) - See Bannock County
FREMONT COUNTY
(B-H-Hw) - See Bannock County
GEM COUNTY
(B-H-Hw) - See Ada County
GOODING COUNTY
(B-H-Hw) - See Ada County
IDAHO COUNTY
(B-H-Hw) - See Benewah County
JEFFERSON COUNTY
(B-H-Hw) - See Bannock County
JEROME COUNTY
(B-H-Hw) - See Ada County
KOOTENAI COUNTY
(B-H-Hw) - See Benewah County
LATAH COUNTY
(B-H-Hw) - See Benewah County

IDAHO (Cont'd)

LEMHI COUNTY
(B-H-Hw) - See Ada County
LEWIS COUNTY
(B-H-Hw) - See Benewah County
LINCOLN COUNTY
(B-H-Hw) - See Ada County
MADISON COUNTY
(B-H-Hw) - See Bannock County
MINIDOKA COUNTY
(B-H-Hw) - See Ada County
NEZ PERCE COUNTY
(B-H-Hw) - See Benewah County
ONEIDA COUNTY
(B-H-Hw) - See Bannock County
OWYHEE COUNTY
(B-H-Hw) - See Ada County
PAYETTE COUNTY
(B-H-Hw) - See Ada County
POWER COUNTY
(B-H-Hw) - See Bannock County
SHOSHONE COUNTY
(B-H-Hw) - See Benewah County
TETON COUNTY
(B-H-Hw) - See Bannock County
TWIN FALLS COUNTY
(B-H-Hw) - See Ada County
VALLEY COUNTY
(B-H-Hw) - See Ada County
WASHINGTON COUNTY
(B-H-Hw) - See Ada County

ILLINOIS

ADAMS COUNTY
Decision #AP-14 (Hw)
37 FR 19983 - 9-22-72
Mod. #1-37 FR 26198 - 12/8/72
ALEXANDER COUNTY
Decision #AP-16 (Hw)
37 FR 19994 - 9-22-72
Mod. #1-37 FR 26778 - 12/15/72
Decision #AP-602 (D)
38 FR 1433 - 1/12/73
BOND COUNTY
Decision #AP-7 (Hw)
37 FR 15816 - 8-4-72
Mod. #1-37 FR 18833 - 9-15-72
BOONE COUNTY
Decision #AP-10 (Hw)
37 FR 19950 - 9-22-72
BROWN COUNTY
(Hw) - See Adams County
(D) - See Alexander County

ILLINOIS (Cont'd)

BUREAU COUNTY
Decision #AP-11 (Hw)
37 FR 19958 - 9/22/72
CALHOUN COUNTY
(Hw) - See Bond County
(D) - See Alexander County
CARROLL COUNTY
(Hw) - See Bureau County
CASS COUNTY
(Hw) - See Adams County
(D) - See Alexander County
CHAMPAIGN COUNTY
Decision #AP-24 (B)(H)(Hw)
37 FR 21243 - 10-6-72
Mod. #1-37 FR 25104 - 11/25/72
Decision #AP-13 (Hw)
37 FR 19978 - 9-22-72

CHRISTIAN COUNTY
(Hw) - See Adams County
CLARK COUNTY
(Hw)-See Champaign County
CLAY COUNTY
Decision #AP-15 (Hw)
37 FR 19989 - 9-22-72
CLINTON COUNTY
(Hw) - See Bond County
COLES COUNTY
(Hw) - See Champaign COunty
COOK COUNTY
Decision #AP-28 (B)(H)(Hw)
37 FR 23513 - 11-3-72
Mod. #1-37 FR 24509 - 11/17/72
Mod. #2-37 FR 25104 - 11/25/72
Mod. #3-37 FR 26198 - 12/8/72
Decision #AP-29 (R)
37 FR 23490 - 11-3-72
Mod. #1-37 FR 24509 - 11/17/72
Mod. #2-37 FR 26198 - 12/8/72
Decision #AP-4 (D)
37 FR 14670 - 7-21-72
CRAWFORD COUNTY
(Hw) - See Clay County
CUMBERLAND COUNTY
(Hw) - See Champaign County
DEKALB COUNTY
(Hw) - See Boone County
DEWITT COUNTY
(Hw) - See Champaign County
DOUGLAS COUNTY
(Hw) - See Champaign County

ILLINOIS (Cont'd)

DU PAGE COUNTY
Decision #AP-30 (B)(H)
37 FR 23975 - 11/10/72
Mod. #1-37 FR 25615 - 12/1/72
Decision #AP-31 (R)
37 FR 23961 - 11/10/72
Mod. #1-37 FR 25615 - 12/1/72
(Hw) - See Boone County
EDGAR COUNTY
(Hw) - See Champaign County
EDWARDS COUNTY
(Hw) - See Clay County
EFFINGHAM COUNTY
(Hw) - See Clay County
FAYETTE COUNTY
(Hw) - See Clay County
FORD COUNTY
None
FRANKLIN COUNTY
(Hw) - See Alexander County
FULTON COUNTY
Decision #AP-12 (Hw)
37 FR 19970 - 9-22-72
GALLATIN COUNTY
(Hw) - See Alexander County
(D) - See Alexander County
GREENE COUNTY
(Hw) - See Bond County
(D) - See Alexander County
GRUNDY COUNTY
None
HAMILTON COUNTY
(Hw) - See Clay County
HANCOCK COUNTY
(Hw) - See Fulton County
HARDIN COUNTY
(Hw) - See Alexander County
(D) - See Alexander County
HENDERSON COUNTY
(Hw) - See Fulton County
HENRY COUNTY
(Hw) - See Bureau County
IROQUOIS COUNTY
None
JACKSON COUNTY
(Hw) - See Alexander County
(D) - See Alexander County
JASPER COUNTY
(Hw) - See Clay County

ILLINOIS (Cont'd)

JEFFERSON COUNTY
(Hw) - See Clay County
JERSEY COUNTY
(Hw) - See Bond County
(D) - See Alexander County
JO DAVIESS COUNTY
(Hw) - See Bureau County
JOHNSON COUNTY
(Hw) - See Alexander County
KANE COUNTY
Decision #AP-32 (B) (H)
37 FR 25631 - 12/1/72
Decision #AP-33 (R)
37 FR 25603 - 12/1/72
(Hw) - See Boone County
KANKAKEE COUNTY
None
KENDALL COUNTY
(Hw) - Boone County
KNOX COUNTY
(Hw) - See Fulton County
LAKE COUNTY
Decision #AP-51 (B) (H)
37 FR 26235 - 12/8/72
Mod. #1 - 37 FR 28351 - 12/22/72
Decision #AP-52 (R)
37 FR 26191 - 12/8/72
Mod. #1 - 37 FR 28351 - 12/22/72
(D) - See Cook County
(Hw) - See Boone County
LA SALLE COUNTY
None
LAWRENCE COUNTY
(Hw) - See Clay County
LEE COUNTY
(Hw) - See Bureau County
LIVINGSTON COUNTY
None
LOGAN COUNTY
(Hw) - See Adams County
McDONOUGH COUNTY
(Hw) - See Fulton County
McHENRY COUNTY
(Hw) - See Boone County
McLEAN COUNTY
None
MACON COUNTY
(Hw) - See Champaign County

ILLINOIS (cont'd)

MACOUPIN COUNTY
(Hw) - See Bond County
MADISON COUNTY
Decision #AP-617 (B, H)
38 FR 2590 - 1/26/73
Mod. #1 - 38 FR 4622 - 2/16/73
Decision #AP-618 (R)
38 FR 2563 - 1/26/73
Mod. #1 - 38 FR 4623 - 2/16/73
(Hw) - See Bond County
(D) - See Alexander County
MARION COUNTY
(Hw) - See Clay County
MARSHALL COUNTY
None
MASON COUNTY
(Hw) - See Adams County
MASSAC COUNTY
(Hw, D) - See Alexander County
MENARD COUNTY
(Hw) - See Adams County
MERCER COUNTY
(Hw) - See Fulton County
MONROE COUNTY
(Hw) - See Bond County
(D) - See Alexander County
MONTGOMERY COUNTY
(Hw) - See Bond County
MORGAN COUNTY
(Hw) - See Adams County
(D) - See Alexander County
MOULTRIE COUNTY
(Hw) - See Champaign County
OGLE COUNTY
(Hw) - See Bureau County
PEORIA COUNTY
Decision #AP-637 (B, H, D)
38 FR 5012 - 2/23/73
Decision #AP-622 (R)
38 FR 3242 - 2/2/73
(Hw) - See Fulton County
PERRY COUNTY
(Hw) - See Alexander County
PIATT COUNTY
(Hw) - See Champaign County
PIKE COUNTY
(Hw) - See Adams County
(D) - See Alexander County
POPE COUNTY
(Hw , D) - See Alexander County

ILLINOIS (cont'd)

PULASKI COUNTY
(Hw, D) - See Alexander County
PUTNAM COUNTY
None
RANDOLPH COUNTY
(Hw, D) - See Alexander County
RICHLAND COUNTY
(Hw) - See Clay County
ROCK ISLAND COUNTY
Decision #AP-616 (B, H)
38 FR 2585 - 1/26/73
Mod. #1 - 38 FR 4621 - 2/16/73
(Hw) - See Bureau County
SAINT CLAIR COUNTY
Decision #AP-619 (B,H)
38 FR 3255 - 2/2/73
Mod. #1 - 38 FR 4624 - 2/16/73
Decision #AP-620 (R)
38 FR 3237 - 2/2/73
(Hw) - See Bond County
(D) - See Alexander County
SALINE COUNTY
(Hw) - See Alexander County
SANGAMON COUNTY
Decision #AP-79 (B, H)
37 FR 28368 - 12/22/72
Mod. #1 - 38 FR 2568 - 1/26/73
(Hw) - See Adams County
SCHUYLER COUNTY
(Hw) - See Adams County
SCOTT COUNTY
(Hw) - See Adams County
(D) - See Alexander County
SHELBY COUNTY
(Hw) - See Champaign County
STARK COUNTY
(Hw) - See Fulton County
STEPHENSON COUNTY
(Hw) - See Bureau County
TAZEWELL COUNTY
(R) - See Peoria County
(Hw) - See Fulton County
UNION COUNTY
(Hw, D) - See Alexander County
VERMILLION COUNTY
Decision #AP-615 (B,H)
38 FR 2580 - 1/26/73
Mod. #1 - 38 FR 5088 - 2/23/73
(Hw) - See Champaign County
WABASH COUNTY
(Hw) - See Clay County

ILLINOIS (Cont'd)

WARREN COUNTY
(Hw) - See Fulton County
WASHINGTON COUNTY
(Hw) - See Bond County
WAYNE COUNTY
(Hw) - See Clay County
WHITE COUNTY
(Hw) - See Clay County
WHITESIDE COUNTY
(Hw) - See Bureau County
WILL COUNTY
Decision #AP-68 (B) (H)
37 FR 26420 - 12/8/72
Mod. #1 - 38 FR 2568 - 1/26/73
Decision #AP-69 (R)
37 FR 26194 - 12/8/72
Mod. #1 - 38 FR 4076 - 2/9/73
(Hw) - See Boone County
WILLIAMSON COUNTY
Decision #AP-603 (B, H)
38 FR 2572 - 1/26/73
(Hw) - See Alexander County
WINNEBAGO COUNTY
Decision #AP-604 (B, H)
38 FR 2575 - 1/26/73
(Hw) - See Bureau County
WOODFORD COUNTY
None

INDIANA

ADAMS COUNTY
Decision #AP-17 (Hw)
37 FR 20415 - 9-29-72
Mod. #1-37 FR 23053 - 10-27-72
Mod. #2-37 FR 26199 - 12/8/72
ALLEN COUNTY
Decision #AP-623 (B, H)
38 FR 4089 - 2/9/73
Decision #AM-371 (R)
36 FR 15390-8-13-71
(Hw) - See Adams County

INDIANA (Cont'd)

BARTHOLOMEW COUNTY
Decision #AP-624 (B, H)
38 FR 4095 - 2/9/73
Decision #AP-21 (Hw)
37 FR 20433 - 9-29-72
Mod. #1-37 FR 23053 - 10-27-72
Mod. #2-37 FR 26200 - 12/8/72
Mod. #3-37 FR 28351 - 12/22/72
BENTON COUNTY
Decision #AP-625 (B, H)
38 FR 4101 - 2/9/73
Decision #AP-18 (Hw)
37 FR 20420 - 9-29-72
Mod. #1-37 FR 23053 - 10-27-72
Mod. #2-37 FR 26199 - 12/8/72
Mod. #3-37 FR 28351 - 12/22/72
BLACKFORD COUNTY
Decision #AP-19 (Hw)
37 FR 20424 - 9-29-72
Mod. #1-37 FR 23053 - 10-27-72
Mod. #2-37 FR 26199 - 12/8/72
BOONE COUNTY
Decision #AM-372 (R)
36 FR 15391 - 8-13-71
Decision #AP-20 (Hw)
37 FR 20428 - 9-29-72
Mod. #1-37 FR 26199 - 12/8/72
BROWN COUNTY
(Hw) - See Bartholomew County
CARROLL COUNTY
(Hw) - See Benton County
CASS COUNTY
(Hw) - See Benton County
CLARK COUNTY
Decision #AP-602 (D)
38 FR 1433 - 1/12/73
(Hw) - See Bartholomew County
CLAY COUNTY
(Hw) - See Boone County
CLINTON COUNTY
(Hw) - See Benton County

INDIANA (Cont'd)

CRAWFORD COUNTY
Decision #AP-22 (Hw)
37 FR 20437 - 9-29-72
Mod. #1-37 FR 23053 - 10-27-72
Mod. #2-37 FR 26200 - 12/8/72
Mod. #3-37 FR 28351 - 12/22/72
(D) - See Clark County
DAVIESS COUNTY
(Hw) - See Boone County
DEARBORN COUNTY
Decision #AP-626 (B, H)
38 FR 4107 - 2/9/73
(D) - See Clark County
(Hw) - See Bartholomew County
DECATUR COUNTY
(Hw) - See Bartholomew County
DEKALB COUNTY
(Hw) - See Adams County
DELAWARE COUNTY
Decision #AP-627 (B, H)
38 FR 4111 - 2/9/73
(Hw) - See Blackford County
DUBOIS COUNTY
(Hw) - See Crawford County
ELKHART COUNTY
(Hw) - See Adams County
FAYETTE COUNTY
(Hw) - See Blackford County
FLOYD COUNTY
(D) - See Clark County
(Hw) - See Bartholomew County
FOUNTAIN COUNTY
(Hw) - See Boone County
FRANKLIN COUNTY
(Hw) - See Bartholomew COunty
FULTON COUNTY
(Hw) - See Benton County
GIBSON COUNTY
(Hw) - See Crawford County

INDIANA (Cont'd)

GRANT COUNTY
Decision #AP-628 (B, H)
38 FR 4116 - 2/9/73
(Hw) - See Blackford County
GREENE COUNTY
(Hw) - See Boone County
HAMILTON COUNTY
(Hw) - See Blackford County
(R) - See Boone County
HANCOCK COUNTY
(Hw) - See Blackford County
(R) - See Boone County
HARRISON COUNTY
(D) - See Clark County
(Hw) - See Bartholomew County
HENDRICKS COUNTY
(Hw) - See Boone County
(R) - See Boone County
HENRY COUNTY
(Hw) - See Blackford County
HOWARD COUNTY
(Hw) - See Benton County
HUNTINGTON COUNTY
(Hw) - See Adams County
JACKSON COUNTY
(Hw) - See Bartholomew County
JASPER COUNTY
(Hw) - See Benton County
JAY COUNTY
(Hw) - See Blackford County
JEFFERSON COUNTY
(D) - See Clark County
(Hw) - See Bartholomew County
JENNINGS COUNTY
(Hw) - See Bartholomew County
JOHNSON COUNTY
(Hw) - See Blackford County
(R) - See Boone County
KNOX COUNTY
(Hw) - See Boone County
KOSCIUSKO COUNTY
(Hw) - See Adams County

INDIANA (Cont'd)

LAGRANGE COUNTY
(Hw) - See Adams County
LAKE COUNTY
Decision #AP-629 (B, H, Hw)
38 FR 4121 - 2/9/73
Decision #AP-4 (D)
37 FR 14670 - 7-21-72
LAPORTE COUNTY
Decision #AP-630 (B, H, Hw)
38 FR 4126 - 2/9/73
(D) - See Lake County
LAWRENCE COUNTY
(Hw) - See Bartholomew County
MADISON COUNTY
(Hw) - See Blakford County
MARION COUNTY
Decision #AP-631 (B, H)
38 FR 4131 - 2/9/73
(R) - See Boone County
(Hw) - See Blackford County
MARSHALL COUNTY
(Hw) - See Adams County
MARTIN COUNTY
(Hw) - See Bartholomew County
MIAMI COUNTY
(Hw) - See Benton County
MONROE COUNTY
Decision #AP-632 (B, H)
38 FR 4137 - 2/9/73
(Hw) - See Bartholomew County
MONTGOMERY COUNTY
(Hw) - See Boone County
MORGAN COUNTY
(R) - See Boone County
(Hw) - See Boone County
NEWTON COUNTY
(Hw) - See Benton County
NOBLE COUNTY
(Hw) - See Adams County

INDIANA (Cont'd)

OHIO COUNTY
(D) - See Clark County
(Hw) - See Bartholomew County
ORANGE COUNTY
(Hw) - See Bartholomew County
OWEN COUNTY
(Hw) - See Boone County
PARKE COUNTY
(Hw) - See Boone County
PERRY COUNTY
(D) - See Clark County
(Hw) - See Crawford County
PIKE COUNTY
(Hw) - See Crawford County
PORTER COUNTY
Decision #AP-633 (B, H, Hw)
38 FR 4142 - 2/9/73
(D) - See Lake County
POSEY COUNTY
(D) - See Clark County
(Hw) - See Crawford County
PULASKI COUNTY
(Hw) - See Benton County
PUTNAM COUNTY
(Hw) - See Boone County
RANDOLPH COUNTY
(Hw) - See Blackford County
RIPLEY COUNTY
(Hw) - See Bartholomew County
RUSH COUNTY
(Hw) - See Blackford County
SAINT JOSEPH COUNTY
Decision #AP-634 (B, H, Hw)
38 FR 4147 - 2/9/73
SCOTT COUNTY
(Hw) - See Bartholomew County
SHELBY COUNTY
(R) - See Boone County
(Hw) - See Blackford County
SPENCER COUNTY
(D) - See Clark County
(Hw) - See Crawford County

INDIANA (Cont'd)

STARKE COUNTY
(Hw) - See Adams County
STEUBEN COUNTY
(Hw) - See Adams County
SULLIVAN COUNTY
(Hw) - See Boone County
SWITZERLAND COUNTY
(D) - See Clark County
(Hw) - See Bartholomew County
TIPPECANOE COUNTY
(B)(H)(Hw) - See Benton County
TIPTON COUNTY
(Hw) - See Benton County
UNION COUNTY
(Hw) - See Blackford County
VANDERBURGH COUNTY
Decision #AP-635 (B, H)
38 FR 4151 - 2/9/73
(Hw) - See Crawford County
VERMILLION COUNTY
(Hw) - See Boone County
VIGO COUNTY
Decision #AP-636 (B, H)
38 FR 4156 - 2/9/73
(Hw) - See Boone County
WABASH COUNTY
(Hw) - See Benton County
WARREN COUNTY
(Hw) - See Boone County
WARRICK COUNTY
(D) - See Clark County
(Hw) - See Crawford County
WASHINGTON COUNTY
(Hw) - See Bartholomew County
WAYNE COUNTY
(Hw) - See Blackford County
WELLS COUNTY
(Hw) - See Adams County
WHITE COUNTY
(Hw) - See Benton County
WHITLEY COUNTY
(Hw) - See Adams County

IOWA

ADAIR COUNTY
None
ADAMS COUNTY
None
ALLAMAKEE COUNTY
None
APPONOOSE COUNTY
None
AUDUBON COUNTY
None
BENTON COUNTY
None
BLACK HAWK COUNTY
Decision #AP-510 (B,H,Hw)
37 FR 23980 - 11/10/72
BOONE COUNTY
None
BREMER COUNTY
None
BUCHANAN COUNTY
None
BUENA VISTA COUNTY
None
BUTLER COUNTY
None
CALHOUN COUNTY
None
CARROLL COUNTY
Decision #AM-6,712 (H-Hw)
37 FR 7429 - 4-14-72
CASS COUNTY
(H-Hw) - See Carroll County
CEDAR COUNTY
None
CERRO GORDO COUNTY (MASON CITY)
Decision #AM-2,448 (B-H-Hw)
36 FR 16796 - 8-25-71
Mod. #1-36 FR 18985 - 9-24-71
Mod. #2-37 FR 4465 - 3-3-72
CHEROKEE COUNTY
None
CHICKASAW COUNTY
None
CLARKE COUNTY
None

IOWA (Cont'd)

CLAY COUNTY
(B-Hw) - See Carroll County
CLAYTON COUNTY
None
CLINTON COUNTY (CLINTON CITY)
Decision #AM-2,449 (B-H-Hw)
36 FR 16799 - 8-25-71
Mod. #1-37 FR 4466 - 3-3-72
CRAWFORD COUNTY
(B-Hw) - See Carroll County
DALLAS COUNTY
None
DAVIS COUNTY
None
DECATUR COUNTY
None
DELEWARE COUNTY
None
DES MOINES COUNTY (City of Burlington and Abutting Municipalities; and Burlington Ordnance Plant)
Decision #AP-511 (B,H,Hw)
37 FR 23984 - 11/10/72
DICKINSON COUNTY
None
DUBUQUE COUNTY (Dubuque City)
Decision #AM-2,451 (B-H-Hw)
36 FR 16806 - 8-25-71
Mod. #1-37 FR 4466 - 3-3-72
Mod. #2-37 FR 17900 - 9-1-72
EMMET COUNTY
None
FAYETTE COUNTY
None
FLOYD COUNTY
None
FRANKLIN COUNTY
None
FREMONT COUNTY
None
GREENE COUNTY
None
GRUNDY COUNTY
None

IOWA (Cont'd)

GUTHRIE COUNTY
None
HAMILTON COUNTY
None
HANCOCK COUNTY
None
HARDIN COUNTY
None
HARRISON COUNTY
None
HENRY COUNTY
None
HOWARD COUNTY
(H-Hw) - See Carroll County
HUMBOLDT COUNTY
None
IDA COUNTY
None
IOWA COUNTY
None
JACKSON COUNTY
None
JASPER COUNTY
None
JEFFERSON COUNTY
None
JOHNSON COUNTY (Iowa City)
Decision #AM-2,452 (B-H-Hw)
36 FR 16809 - 8-25-71
Mod. #1-37 FR 640 - 1-14-72
JONES COUNTY
None
KEOKUK COUNTY
None
KOSSUTH COUNTY
None
LEE COUNTY
None
LINN COUNTY (City of Cedar Rapids and Abutting Municipalities)
Decision #AP-512 (B,H,Hw)
37 FR 23988 - 11/10/72
LINN COUNTY (Except City of Cedar Rapids and Abutting Municipalities)
Decision #AP-212 (B-H-Hw)
37 FR 16330 - 8-11-72

IOWA (Cont'd)

LOUISA COUNTY
None
LUCAS COUNTY
None
LYON COUNTY
None
MADISON COUNTY
None
MAHASKA COUNTY
None
MARION COUNTY
None
MARSHALL COUNTY
None
MILLS COUNTY
None
MITCHELL COUNTY
None
MONONA COUNTY
(B-Hw) - See Carroll County
MONROE COUNTY
None
MONTGOMERY COUNTY
None
MUSCATINE COUNTY
None
O'BRIEN COUNTY
(H-Hw) - See Carroll County
OSCEOLA COUNTY
(H-Hw) - See Carroll County
PAGE COUNTY
None
PALO ALTO COUNTY
None
PLYMOUTH COUNTY
None
POCAHONTAS COUNTY
None
POLK COUNTY (City of Des Moines and Abutting Municipalities)
Decision #AP-513 (B,H,Hw)
POLK COUNTY (Except City of Des Moines and Abutting Municipalities)
Decision #AP-215 (H-Hw)
37 FR 16266 - 8-11-72

IOWA (Cont'd)

POTTAWATTAMIE COUNTY (City of Council Bluffs and the area within 3 miles from the City limits)
Decision #AM-2,455 (B-H-Hw)
36 FR 16820 - 8-25-71
Mod. #1-37 FR 4466 - 3-3-72
POWESHIEK COUNTY
None
RINGGOLD COUNTY
(H-Hw) - See Carroll County
SAC COUNTY
None
SCOTT COUNTY
Decision #AM-2,456 (B-H-Hw)
36 FR 16823 - 8-25-71
SHELBY COUNTY
None
SIOUX COUNTY
None
STORY COUNTY (AMES)
Decision #AM-2,457 (B-H-Hw)
36 FR 16826 - 8-25-71
Mod. #1-37 FR 4466 - 3-3-72
Mod. #2-37 FR 5154 - 3-10-72
Mod. #3-37 FR 9595 - 5-12-72
TAMA COUNTY
None
TAYLOR COUNTY
(H-Hw) - See Carroll County
UNION COUNTY
None
VAN BUREN COUNTY
(H-Hw) - See Carroll County
WAPELLO COUNTY
None
WARREN COUNTY
None
WASHINGTON COUNTY
None
WAYNE COUNTY
None
WEBSTER COUNTY (FORT DODGE)
Decision #AM-2,458 (B,H,Hw)
36 FR 16830 - 8-25-71
Mod. #1-37 FR 4466 - 3-3-72

IOWA (Cont'd)

WINNEBAGO COUNTY
None
WINNESHIEK COUNTY
None
WOODBURY COUNTY (SIOUX CITY)
Decision #AM-2,459 (B-H-Hw)
36 FR 16833 - 8-25-71
Mod. #1-37 FR 641 - 1-14-72
WORTH COUNTY
None
WRIGHT COUNTY
None

KANSAS

ALLEN COUNTY
Decision #AM-11,403 (Hw)
37 FR 5664 - 3-17-72
ANDERSON COUNTY
(Hw) - See Allen County
ATCHISON COUNTY
(Hw) - See Allen County
BARBER COUNTY
Decision #AM-11,405 (Hw)
37 FR 5666 - 3-17-72
BARTON COUNTY
(Hw) - See Barber County
BOURBON COUNTY
(Hw) - See Allen County
BROWN COUNTY
(Hw) - See Allen County
BUTLER COUNTY
(Hw) - See Allen County
CHASE COUNTY
(Hw) - See Allen County
CHAUTAUQUA COUNTY
(Hw) - See Allen County
CHEROKEE COUNTY
(Hw) - See Allen County
CHEYENNE COUNTY
(Hw) - See Barber County
CLARK COUNTY
(Hw) - See Barber County

KANSAS (Cont'd)

CLAY COUNTY
(Hw) - See Allen County
CLOUD COUNTY
(Hw) - See Allen County
COFFEY COUNTY
(Hw) - See Allen County
COMANCHE COUNTY
(Hw) - See Barber County
COWLEY COUNTY
(Hw) - See Allen County
CRAWFORD COUNTY
(Hw) - See Allen County
DECATUR COUNTY
(Hw) - See Barber County
DICKINSON COUNTY
(Hw) - See Allen County
DONIPHAN COUNTY
(Hw) - See Allen County
DOUGLAS COUNTY
Decision #AP-503 (Hw)
37 FR 17349 - 8-25-72
Mod. #1-37 FR 20389 - 9-29-72
EDWARDS COUNTY
(Hw) - See Barber County
ELK COUNTY
(Hw) - See Allen County
ELLIS COUNTY
(Hw) - See Barber County
ELLSWORTH COUNTY
(Hw) - See Barber County
FINNEY COUNTY
(Hw) - See Barber County
FORD COUNTY
(Hw) - See Barber County
FRANKLIN COUNTY
(Hw) - See Allen County
GEARY COUNTY
(Hw) - See Allen County
GOVE COUNTY
(Hw) - See Barber County
GRAHAM COUNTY
(Hw) - See Barber County
GRANT COUNTY
(Hw) - See Barber County

KANSAS (Cont'd)

GRAY COUNTY
(Hw) - See Barber County
GREELEY COUNTY
(Hw) - See Barber County
GREENWOOD COUNTY
(Hw) - See Allen County
HAMILTON COUNTY
(Hw) - See Barber County
HARPER COUNTY
(Hw) - See Allen County
HARVEY COUNTY
(Hw) - See Allen County
HASKELL COUNTY
(Hw) - See Barber County
HODGEMAN COUNTY
(Hw) - See Barber County
JACKSON COUNTY
(Hw) - See Allen County
JEFFERSON COUNTY
(Hw)- See Douglas County
JEWELL COUNTY
(Hw) - See Barber County
JOHNSON COUNTY
Decision #AP-517 (B, H, Hw)
37 FR 26218 - 12/8/72
Mod. #1 - 37 FR 28353 - 12/22/72
Mod. #2 - 38 FR 1435 - 1/12/73
Mod. #3 - 38 FR 4078 - 2/9/73
Decision #AP-516 (R)
37 FR 26206 - 12/8/72
Mod. #1 - 38 FR 1435 - 1/12/73
Mod. #2 - 38 FR 4078 - 2/9/73
KEARNY COUNTY
(Hw) - See Barber County
KINGMAN COUNTY
(Hw) - See Allen County
KIOWA COUNTY
(Hw) - See Barber County
LABETTE COUNTY
(Hw) - See Allen County
LANE COUNTY
(Hw) - See Barber County
LEAVENWORTH COUNTY
Decision #AM-6,708 (B)
37 FR 7031-4/7/72
Mod.#1-37 FR 18833-9/15/72
Mod.#2-37 FR 20388-9/29/72
(Hw) - See Douglas County
LINCOLN COUNTY
(Hw) - See Barber County
LINN COUNTY
(Hw) - See Allen County

KANSAS (Cont'd)

LOGAN COUNTY
(Hw) - See Barber County
LYON COUNTY
(Hw) - See Allen County
McPHERSON COUNTY
(Hw) See Allen County
MARION COUNTY
(Hw) - See Allen County
MARSHALL COUNTY
(Hw) - See Allen County
MEADE COUNTY
(Hw) - See Barber County
MIAMI COUNTY
(Hw) - See Douglas County
MITCHELL COUNTY
(Hw) - See Barber County
MONTGOMERY COUNTY
(Hw) - See Allen County
MORRIS COUNTY
(Hw) - See Allen County
MORTON COUNTY
(Hw) - See Barber County
NEMAHA COUNTY
(Hw) - See Allen County
NEOSHO COUNTY
(Hw) - See Allen County
NESS COUNTY
(Hw)- See Barber County
NORTON COUNTY
(Hw) - See Barber County
OSAGE COUNTY
(Hw) - See Allen County
OSBORNE COUNTY
(Hw) - See Barber County
OTTAWA COUNTY
(Hw) - See Allen County
PAWNEE COUNTY
(Hw) See Barber County
PHILLIPS COUNTY
(Hw) - See Barber County
POTTAWATOMIE COUNTY
(Hw) - See Allen County
PRATT COUNTY
(Hw) - See Barber County
RAWLINS COUNTY
(Hw) - See Barber County

KANSAS (Cont'd)

RENO COUNTY
(Hw) - See Allen County
REPUBLIC COUNTY
(Hw) - See Allen County
RICE COUNTY
(Hw) - See Barber County
RILEY COUNTY
(Hw) - See Allen County
ROOKS COUNTY
(Hw) - See Barber County
RUSH COUNTY
(Hw) - See Barber County
RUSSELL COUNTY
(Hw) - See Barber County
SALINE COUNTY
(Hw) - See Allen County
SCOTT COUNTY
(Hw) - See Barber County
SEDGWICK COUNTY
Decision #AP-500 (R)
37 FR 16308-8/11/72
Mod.#1-37 FR 18833-9/15/72
Mod.#2-37 FR 20388-9/29/72
Mod.#3-38 FR 1434 - 1/12/73
Decision #AM-11,404 (Hw)
37 FR 5665-3/17/72
SEWARD COUNTY
(Hw) - See Barber County
SHAWNEE COUNTY
Decision #AM-6,717 (R)
37 FR 7458-4/14/72
Mod.#1-37 FR 18833-9/15/72
Mod.#2-37 FR 20388-9/29/72
Mod.#3-38 FR 4077 - 2/9/73
(Hw) - See Douglas County
Decision #AP-501 (R)
37 FR 16312-8/11/72
Mod.#1-37 FR 18834-9/15/72
Mod.#2-37 FR 20388-9/29/72
Mod.#3-38 FR 4077 - 2/9/73
SHERIDAN COUNTY
(Hw) - See Barber County
SHERMAN COUNTY
(Hw) - See Barber County
SMITH COUNTY
(Hw) - See Barber County
STAFFORD COUNTY
(Hw) - See Barber County
STANTON COUNTY
(Hw) - See Barber County

KANSAS (Cont'd)

STEVENS COUNTY
(Hw) - See Barber County
SUMNER COUNTY
(Hw) - See Allen County
THOMAS COUNTY
(Hw) - See Barber County
TREGO COUNTY
(Hw) - See Barber County
WABAUNSEE COUNTY
(Hw) - See Allen County
WALLACE COUNTY
(Hw) - See Barber County
WASHINGTON COUNTY
(Hw) - See Allen County
WICHITA COUNTY
(Hw) - See Barber County
WILSON COUNTY
(Hw) - See Allen County
WOODSON COUNTY
(Hw) - See Allen County
WYANDOTTE COUNTY
(B,H,Hw) - See Johnson County
(R) - See Johnson County

KENTUCKY

ADAIR COUNTY
Decision #AP-143 (H, Hw)
38 FR 2033 - 1/19/73
ALLEN COUNTY
Decision #AP-145 (H, Hw)
38 FR 2040 - 1/19/73
ANDERSON COUNTY
Decision #AP-146 (H, Hw)
38 FR 2044 - 1/19/73
BALLARD COUNTY
Decision #AM-8,589 (D)
37 FR 5654-3/17/72
Mod. #1-37 FR 24506 11/17/72
(H,Hw) - See Allen County
BARREN COUNTY
(H,Hw) - See Adair County
BATH COUNTY
(H,Hw) - See Anderson County

KENTUCKY (Cont'd)

BATH COUNTY (Cont'd)
Decision #AM-487 (R)
36 FR 16459 - 8/20/71
BELL COUNTY
(H,Hw) - See Adair County
BOONE COUNTY
Decision #AP-141 (H,Hw)
37 FR 25690 - 12/1/72
Mod. #1-37 FR 26778 - 12/15/72
Mod. #2-38 FR 2008 - 1/19/73
Decision #AP-602 (D)
38 FR 1433 - 1/12/73
BOURBON COUNTY
(Hw, H) - See Anderson County
(R) - See Bath County
BOYD COUNTY
Decision #AM-8625 (B,H)
37 FR 12471 - 6-23-72
Mod. #1-37 FR 19879 - 9-22-72
Mod. #2-37 FR 21699 - 10-13-72
Mod. #3-37 FR 23498 - 11/3/72
Mod. #4-37 FR 23968 - 11/10/72
Mod. #5-37 FR 28352 - 12/22/72
Mod. #6-38 FR 4077 - 2/9/73
(D) - See Boone County
BOYLE COUNTY
(H,Hw) - See Anderson County
BRACKEN COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
BREATHITT COUNTY
Decision #AP-144 (H, Hw)
38 FR 2037 - 1/19/73
BRECKINRIDGE COUNTY
Decision #AM-488 (R)
36 FR 16460 - 8-20-71
Mod. #1-37 FR 23972 - 11/10/72
(H,Hw)-See Anderson County
(D) - See Boone County

KENTUCKY (cont'd)

BULLITT COUNTY
(H, Hw) - See Anderson County
(R) - See Breckinridge County
BUTLER COUNTY
(H,Hw) - See Allen County
CALDWELL COUNTY
(H,Hw) - See Allen County
CALLOWAY COUNTY
(H,Hw) - See Allen County
CAMPBELL COUNTY
(H, Hw, D) - See Boone County
CARLISLE COUNTY
(D) - See Ballard County
(H,Hw) - See Allen County
CARROLL COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
CARTER COUNTY
(H,Hw) - See Anderson County
CASEY COUNTY
(H,Hw) - See Adair County
CHRISTIAN COUNTY
(H,Hw) - See Allen County
CLARK COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
CLAY COUNTY
(H,Hw) - See Adair County
CLINTON COUNTY
(H,Hw) - See Adair County
CRITTENDEN COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
CUMBERLAND COUNTY
(H,Hw) - See Adair County
DAVIESS COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
EDMONSON COUNTY
(H,Hw) - See Allen County

KENTUCKY (cont'd)

ELLIOTT COUNTY
(H,Hw) - See Anderson County
ESTILL COUNTY
(H,Hw) - See Adair County
FAYETTE COUNTY
Decision #AP-135 (B,H,Hw)
37 FR 21771 - 10-13-72
Mod. #1-37 FR 23972-11/10/72
Mod. #2-37 FR 28352 - 12/22/72
Mod. #3-38 FR 4077 - 2/9/73
(R) - See Bath COunty
FLEMING COUNTY
(H,Hw) - See Anderson County
FLOYD COUNTY
(H,Hw) - See Breathitt County
FRANKLIN COUNTY
(H,Hw) - See Anderson County
FULTON COUNTY
(D) - See Ballard County
(H,Hw) - See Allen County
GALLATIN COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
GARRARD COUNTY
(H,Hw) - See Adair County
GRANT COUNTY
(H,Hw) - See Anderson County
GRAVES COUNTY
(H,Hw) - See Allen County
GRAYSON COUNTY
(H,Hw) - See Anderson County
GREEN COUNTY
(H,Hw) - See Adair County
GREENUP COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County

KENTUCKY (cont'd)

HANCOCK COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
HARDIN COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
(D) - See Boone County
HARLAN COUNTY
(H,Hw) - See Adair County
HARRISON COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
HART COUNTY
(H,Hw) - See Adair County
HENDERSON COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
HENRY COUNTY
(H,Hw) - See Anderson County
HICKMAN COUNTY
(D) - See Ballard County
(H,Hw) - See Allen County
HOPKINS COUNTY
(H,Hw) - See Allen County
JACKSON COUNTY
(H,Hw) - See Adair County
JEFFERSON COUNTY
Decision #AP-132 (B,H,Hw)
37 FR 21763 - 10-13-72
Mod. #1-37 FR 23054 - 10-27-72
Mod. #2-37 FR 23969-11/10/72
Mod. #3-37 FR 24507-11/17/72
Mod. #4-37 FR 25105-11/25/72
Mod. #5-37 FR 28352-12/22/72
Mod. #6-38 FR 4077-2/9/73
(D) - See Boone County
(R) - See Breckinridge County

KENTUCKY (cont'd)

JESSAMINE COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
JOHNSON COUNTY
Decision #AP-147 (H, Hw)
38 FR 2048 - 1/19/73
KENTON COUNTY
(H, Hw, D) - See Boone County
KNOTT COUNTY
(H,Hw) - See Breathitt County
KNOX COUNTY
(H,Hw) - See Adair County
LARUE COUNTY
(H,Hw) - See Anderson COunty
LAUREL COUNTY
(H,Hw) - See Adair County
LAWRENCE COUNTY
(H,Hw) - See Johnson County
LEE COUNTY
(H,Hw) - See Adair County
LESLIE COUNTY
(H,Hw) - See Adair County
LETCHER COUNTY
(H,Hw) - See Breathitt County
LEWIS COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
LINCOLN COUNTY
(H,Hw) - See Adair County
LIVINGSTON COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
LOGAN COUNTY
(H,Hw) - See Allen County
LYON COUNTY
(H,Hw) - See Allen County

KENTUCKY (cont'd)

McCRACKEN COUNTY
Decision #AP-134 (B,H,Hw)
37 FR 21769 - 10-13-72
Mod. #1-37 FR 23055 - 10-27-72
Mod. #2-37 FR 23791-11/10/72
Mod. #3-37 FR 28352 - 12/22/72
Mod. #4-38 FR 4077 - 2/9/73
(D) - See Boone County
McCREARY COUNTY
(H,Hw) - See Adair County
McLEAN COUNTY
(H,Hw) - See Allen County
MADISON COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
MAGAFFIN COUNTY
(H,Hw) - See Breathitt County
MARION COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
MARSHALL COUNTY
(H,Hw) - See Allen County
MARTIN COUNTY
(H,Hw) - See Breathitt County
MASON COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
MEADE COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
(D) - See Boone County
MENIFEE COUNTY
(H,Hw) - See Adair County

KENTUCKY (Cont'd)

MERCER COUNTY
(H,Hw) - See Anderson County
METCALFE COUNTY
(H,Hw) - See Adair County
MONROE COUNTY
(H,Hw) - See Adair County
MONTGOMERY COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
MORGAN COUNTY
(H,Hw) - See Anderson County
MUHLENBERG COUNTY
(H,Hw) - See Allen County
NELSON COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
NICHOLAS COUNTY
(H,Hw) - See Anderson County
OHIO COUNTY
(H,Hw) - See Allen County
OLDHAM COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
(D) - See Boone County
OWEN COUNTY
(H,Hw) - See Anderson County
OWSLEY COUNTY
(H,Hw) - See Adair County
PENDLETON COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
PERRY COUNTY
(H,Hw) - See Breathitt County
PIKE COUNTY
(H,Hw) - See Breathitt County
POWELL COUNTY
(H,Hw) - See Adair County
PULASKI COUNTY
(H,Hw) - See Adair County
ROBERTSON COUNTY
(H,Hw) - See Anderson County
ROCKCASTLE COUNTY
(H,Hw) - See Adair County
ROWAN COUNTY
(H,Hw) - See Anderson County

KENTUCKY (Cont'd)

RUSSELL COUNTY
(H,Hw) - See Adair County
SCOTT COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County
SHELBY COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
SIMPSON COUNTY
(H,Hw) - See Allen County
SPENCER COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
TAYLOR COUNTY
(H,Hw) - See Adair County
TODD COUNTY
(H,Hw) - See Allen County
TRIGG COUNTY
(H,Hw) - See Allen County
TRIMBLE COUNTY
(H,Hw) - See Anderson County
(D) - See Boone County
UNION COUNTY
(H,Hw) - See Allen County
(D) - See Boone County
WARREN COUNTY
Decision #AP-133 (B,H,Hw)
37 FR 21766 - 10-13-72
Mod. #1-37 FR 23055 - 10-27-72
Mod. #2-37 FR 23970 - 11/10/72
Mod. #3-37 FR 24057 - 11/17/72
Mod. #4-37 FR 28352 - 12/22/72
Mod. #5-38 FR 4077 - 2/9/73
WASHINGTON COUNTY
(H,Hw) - See Anderson County
(R) - See Breckinridge County
WAYNE COUNTY
(H,Hw) - See Adair County
WEBSTER COUNTY
(H,Hw) - See Allen County
WHITLEY COUNTY
(H,Hw) - See Adair County
WOLFE COUNTY
(H,Hw) - See Adair County
WOODFORD COUNTY
(H,Hw) - See Anderson County
(R) - See Bath County

LOUISIANA

STATEWIDE
Decision #AM-8,589 (D)
37 FR 5654 - 3-17-72
Mod. #1-37 FR 24506 - 11/17/72
ACADIA PARISH
(D) - See Statewide
Decision #AM-8,588 (F)
37 FR 5654 - 3-17-72
Mod. #1-37 FR 8601 - 4-28-72
Mod. #2-37 FR 24506 - 11/17/72
ALLEN PARISH
(D) - See Statewide
(F) - See Acadia Parish
ASCENSION PARISH
(D) - See Statewide
(F) - See Acadia Parish
ASSUMPTION PARISH
(D) - See Statewide
(F) - See Acadia Parish
AVOYELLES PARISH
(D) - See Statewide
(F) - See Acadia Parish
BEAUREGARD PARISH
(D) - See Statewide
(F) - See Acadia Parish
BIENVILLE PARISH
(D)-See Statewide
(F)-See Acadia Parish
BOSSIER PARISH
(D)-See Statewide
(F)-See Acadia Parish
Decision #AP-397 (B)
38 FR 2602 - 1/26/73
Mod. #1 - 38 FR 4078 - 2/9/73
Mod. @3 - 38 FR 5089 - 2/23/73
Decision #AP-398 (R)
38 FR 2604 - 1/26/73
Mod. #1 - 38 FR 4078 - 2/9/73
Mod. #2 - 38 FR 5089 - 2/23/73
CADDO PARISH
(D) - See Statewide
(B, R) - See Bossier Parish
CALCASIEU PARISH
(D) - See Statewide
(F) - See Acadia Parish

LOUISIANA (Cont'd)

CALCASIEU PARISH (cont'd)
Decision #AP-367 (R)
37 FR 26247 - 12/8/72
Mod. #1 - 37 FR 28352 - 12/22/72
Mod. #2 - 37 FR 28800 - 12/29/72
Mod. #3 - 38 FR 936 - 1/5/73
Decision #AP-366 (R)
37 FR 26245 - 12/8/72
Mod. #1 - 37 FR 28352 - 12/22/72
Mod. #2 - 37 FR 28800 - 12/22/72
Mod. #3 - 38 FR 936 - 1/5/73
CALDWELL PARISH
(D)-See Statewide
(F)-See Acadia Parish
CAMERON PARISH
(D) - See Statewide
(F) - See Acadia Parish
CATAHOULA PARISH
(D) - See Statewide
(F) - See Acadia Parish
CLAIBORNE PARISH
(D) - See Statewide
(F) - See Acadia Parish
CONCORDIA PARISH
(D) - See Statewide
(F) - See Acadia Parish
DE SOTO PARISH
(D) - See Statewide
(F) - See Acadia Parish
EAST BATON ROUGE PARISH
(D) - See Statewide
Decision #AP-362 (B)
37 FR 25636 - 12/1/72
Mod. #1-37 FR 26778 - 12/15/72
Mod. #2 - 38 FR 4624 - 2/16/73
Mod. #3 - 38 FR 5089 - 2/23/73
EAST CARROLL PARISH
(D) - See Statewide
(F) - See Acadia Parish
EAST FELICIANA PARISH
(D) - See Statewide
(F) - See Acadia Parish
EVANGELINE PARISH
(D) - See Statewide
(F) - See Acadia Parish
FRANKLIN PARISH
(D) - See Statewide
(F) - See Acadia Parish

LOUISIANA (Cont'd)

GRANT PARISH
(D) - See Statewide
(F) - See Acadia Parish
IBERIA PARISH
(D) - See Statewide
(F) - See Acadia Parish
IBERVILLE PARISH
(D)-See Statewide
(F)-See Acadia Parish
JACKSON PARISH
(D)-See Statewide
(F)-See Acadia Parish
JEFFERSON PARISH
(D)-See Statewide
(F)-See Acadia Parish
Decision #AP-70 (B)
38 FR 4634 - 2/16/73
Mod. #1 - 38 FR 5758 - 3/2/72
JEFFERSON DAVIS PARISH
(D)-See Statewide
(F)-See Acadia Parish
LAFAYETTE PARISH
(D)-See Statewide
(F)-See Acadia Parish
LAFOURCHE PARISH
(D)-See Statewide
(F)-See Acadia Parish
LA SALLE PARISH
(D)-See Statewide
(F)-See Acadia Parish
LINCOLN PARISH
(D)-See Statewide
(F)-See Acadia Parish
LIVINGSTON PARISH
(D)-See Statewide
(F)-See Acadia Parish
MADISON PARISH
(D)-See Statewide
(F)-See Acadia Parish
MOREHOUSE PARISH
(D)-See Statewide
(F)-See Acadia Parish
NATCHITOCHES PARISH
(D)-See Statewide
(F)-See Acadia Parish
ORLEANS PARISH
(D) - See Statewide
(B) - See Jefferson Parish

LOUISIANA (Cont'd)

OUACHITA PARISH
(D)-See Statewide
Decision #AP-317 (B)
37 FR 17305-8/25/72
PLAQUEMINES PARISH
(D)-See Statewide
(B)-See Jefferson Parish
(F)-See Acadia Parish
POINT COUPEE PARISH
(D)-See Statewide
(F)-See Acadia Parish
RAPIDES PARISH
(D)-See Statewide
Decision #AP-363 (B)
37 FR 25638 - 12/1/72
Mod. #1-37 FR 26778 - 12/15/72
Mod. #2-38 FR 1434 - 1/12/73
Mod. #3-38 FR 2569 - 1/26/73
Mod. #4 - 38 FR 5089 - 2/23/73
RED RIVER PARISH
(D)-See Statewide
(F)-See Acadia Parish
RICHLAND PARISH
(D)-See Statewide
(F)-See Acadia Parish
SABINE PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. BERNARD PARISH
(D)-See Statewide
(F)-See Acadia Parish
(B)-See Jefferson Parish
ST. CHARLES PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. HELENA PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. JAMES PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. JOHN THE BAPTIST PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. LANDRY PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. MARTIN PARISH
(D)-See Statewide
(F)-See Acadia Parish

LOUISIANA (Cont'd)

ST. MARY PARISH
(D)-See Statewide
(F)-See Acadia Parish
ST. TAMMANY PARISH
(D)-See Statewide
(F)-See Acadia Parish
TANGIPAHOA PARISH
(D)-See Statewide
(F)-See Acadia Parish
TENSAS PARISH
(D) See Statewide
(F)-See Acadia Parish
TERREBONNE PARISH
(D)-See Statewide
(F)-See Acadia Parish
UNION PARISH
(D)-See Statewide
(F)-See Acadia Parish
VERMILION PARISH
(D)-See Statewide
(F)-See Acadia Parish
VERNON PARISH
(D)-See Statewide
(F)-See Acadia Parish
WASHINGTON PARISH
(D)-See Statewide
(F)-See Acadia Parish
WEBSTER PARISH
(D)-See Statewide
(F)-See Acadia Parish
WEST BATON ROUGE PARISH
(D)-See Statewide
(F)-See Acadia Parish
WEST CARROLL PARISH
(D)-See Statewide
(F)-See Acadia Parish
WEST FELICIANA PARISH
(D)-See Statewide
(F)-See Acadia Parish
WINN PARISH
(D)-See Statewide
(F)-See Acadia Parish

MAINE

ANDROSCOGGIN COUNTY
None
AROOSTOOK COUNTY
None
CUMBERLAND COUNTY
Decision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
FRANKLIN COUNTY
None
HANCOCK COUNTY
(D) - See Cumberland County
KENNEBEC COUNTY
None
KNOX COUNTY
(D) - See Cumberland County
LINCOLN COUNTY
(D) - See Cumberland County
OXFORD COUNTY
None
PENOBSCOT COUNTY
None
PISCATAQUIS COUNTY
None
SAGADAHOC COUNTY
(D) - See Cumberland County
SOMERSET COUNTY
None
WALDO COUNTY
(D) - See Cumberland County
WASHINGTON COUNTY
(D) - See Cumberland County
YORK COUNTY
(D) - See Cumberland County

MARYLAND

ALLEGANY COUNTY
None
ANNE ARUNDEL COUNTY
Decision #AP-439 (D)
37 FR 22701 - 10/20/72
BALTIMORE CITY & BALTIMORE COUNTY
Decision #AP-455 (B, H, Hw)
37 FR 28819 - 12/29/72

MARYLAND (Cont'd)

BALTIMORE CITY & BALTIMORE COUNTY (Cont'd)
Decision #AM-1,846 (R)
36 FR 16249 - 8/20/71
Decision #AM-9,322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
CALVERT COUNTY
(D)-See Anne Arundel County
CAROLINE COUNTY
None
CARROLL COUNTY
None
CECIL COUNTY
(R)-See Baltimore County
CHARLES COUNTY
(D)-See Anne Arundel County
DORCHESTER COUNTY
(D)-See Anne Arundel County
FREDERICK COUNTY
None
GARRETT COUNTY
None
HARFORD COUNTY
(R)-See Baltimore County
(D)-See Anne Arundel County
HOWARD COUNTY
(R)-See Baltimore County
KENT COUNTY
(D)-See Anne Arundel County
MONTGOMERY COUNTY
Decision #AP-443 (B)
37 FR 24515 - 11/17/72
Mod. #1-37 FR 25615 - 12/1/72
Mod. #2-37 FR 26198 - 12/8/72
Mod. #3-38 FR 2015 - 1/19/73
Mod. #4-38 FR 5109 - 2/23/73
Decision #AP-450 (R)
37 FR 25117 - 11/25/72
PRINCE GEORGES COUNTY
(B)-See Montgomery County
(R)-See Montgomery County
(D)-See Anne Arundel County

MARYLAND (Cont'd)

QUEEN ANNES COUNTY
(D) - See Anne Arundel County
ST. MARYS COUNTY
(D) - See Anne Arundel County
SOMERSET COUNTY
(D)-See Anne Arundel County
TALBOT COUNTY
(D)-See Anne Arundel County
WASHINGTON COUNTY
None
WICOMICO COUNTY
(D)-See Anne Arundel County
WORCESTER COUNTY
(D)-See Baltimore County

MASSACHUSETTS

BARNSTABLE COUNTY
Decision #AP-456 (B, H, Hw & Marine)
38 FR 2051 - 1/19/73
Mod. #1 - 38 FR 4625 - 2/16/73
Mod. #2 - 38 FR 5759 - 3/2/73
Decision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1-37 FR 19871-9/22/72
BERKSHIRE COUNTY
None
BRISTOL COUNTY
(D)-See Barnstable County
DUKES COUNTY
(D)-See Barnstable County
ESSEX COUNTY
Decision #AP -457 (B, H, Hw & Marine)
38 FR 2054 - 1/19/73
Mod. #1 - 38 FR 4625 - 2/16/73
Mod. #2 - 38 FR 5759 - 3/2/73
(D)-See Barnstable County
FRANKLIN COUNTY
None
HAMPDEN COUNTY
Decision #AP-458 (B, H, Hw)
38 FR 2058 - 1/19/73
Mod. #1 - 38 FR 4625 - 2/16/73
Decision #AP-470 (R)
38 FR 4617 - 2/16/73

MASSACHUSETTS (cont'd)

HAMPSHIRE COUNTY
None
MIDDLESEX COUNTY
Decision #AP-459 (B, H, Hw & Marine)
38 FR 2062 - 1/19/73
Mod. #1 - 38 FR 4627 - 2/16/73
(D)- See Barnstable County
NANTUCKET COUNTY
(D)-See Barnstable County
NORFOLK COUNTY
(D)-See Barnstable County
PLYMOUTH COUNTY
(D)-See Barnstable County
SUFFOLK COUNTY
Decision #AP-460 (B, H, Hw & Marine)
38 FR 2066 - 1/19/73
Mod. #1 - 38 FR 4627 - 2/16/73
WORCESTER COUNTY
Decision #AP-461 (B, H, Hw)
38 FR 2070 - 1/19/73
Mod. #1 - 38 FR 4628 - 2/16/73
Mod. #2 - 38 FR 5759 - 3/2/73

MICHIGAN

ALCONA COUNTY
Decision #AP-4 (D)
37 FR 14670 - 7-21-72
Decision AP-79 (Highway, Bridge, Airport & Sewer Cons, excl. of Bldgs.)
37 FR 28377 - 12/22/72
Mod. #1 - 38 FR 936 - 1/5/73
Mod. #2 - 38 FR 4629 - 2/16/73
ALGER COUNTY
(Hw, D) - See Alcona County
ALLEGAN COUNTY
Decision #AP-80 (B, H)
37 FR 28822 - 12/29/72
Mod. #1 - 38 FR 5089 - 2/23/73
Decision #AP-398 (R)
36 FR 15891 - 8/18/71
Decision AP-77 (Highway, Bridge, Airport & Sewer Cons, excl. of Bldgs.)
37 FR 28374 - 12/22/72
Mod. #1 - 38 FR 4629 - 2/16/73
(D) - See Alcona County
ALPENA COUNTY
Decision #AP-81 (B, H)
37 FR 28825 - 12/29/72
Mod. #1 - 38 FR 5089 - 2/23/73
(Hw, D) - See Alcona County
ANTRIM COUNTY
(Hw, D) - See Alcona County
ARENAC COUNTY
(Hw, D) - See Alcona County

MICHIGAN (cont'd)

BARAGA COUNTY
Decision #AP-82 (B, H)
37 FR 28850 - 12/29/72
Mod. #1 - 38 FR 5089 - 2/23/73
(Hw, D) - See Alcona County
BARRY COUNTY
(Hw) - See Allegan County
BAY COUNTY
(D) - See Alcona County
(Hw) - See Allegan County
BENZIE COUNTY
(D) - See Alcona County
(Hw) - See Alcona County
BERRIEN COUNTY
Decision #AP-83 (B, H)
37 FR 28828 - 12/29/72
Mod. #1 - 38 FR 5089 - 2/23/73
Decision #AM-399 (R)
36 FR 15892 - 8-18-71
(D) - See Alcona County
(Hw) - See Allegan County
BRANCH COUNTY
Decision #AM-401 (R)
36 FR 15894 - 8-18-71
(Hw) - See Allegon County
CALHOUN COUNTY
Decision #AP-84 (B, H)
37 FR 28831 - 12/29/72
Mod. #1 - 38 FR 5090 - 2/23/73
Decision #AM-400 (R)
36 FR 15892 - 8/18/71
(Hw) - See Allegan County
CASS COUNTY
(Hw) - See Allegan County
(R)-See Branch County
CHARLEVOIX COUNTY
Decision #AP-85 (B, H)
37 FR 28834 - 12/29/72
Mod. #1 - 38 FR 5091 - 2/23/73
(Hw, D) - See Alcona County
CHEBOYGAN COUNTY
(Hw, D) - See Alcona County
CHIPPEWA COUNTY
Decison #AP-86 (B, H)
37 FR 28837 - 12/29/72
Mod. #1 - 38 FR 5091 - 2/23/73
(Hw, D) - See Alcona County
CLARE COUNTY
(Hw) - See Alcona County
CLINTON COUNTY
(Hw) - See Allegan County

MICHIGAN (cont'd)

CRAWFORD COUNTY
(Hw) - See Alcona County
DELTA COUNTY
(Hw, D) - See Alcona County
DICKINSON COUNTY
(Hw) - See Alcona County
EATON COUNTY
Decision #AM-8041 (R)
36 FR 24027 - 12/17/71
(Hw) - See Allegan County
EMMET COUNTY
Decision #AP-87 (B, H)
37 FR 28839 - 12/29/72
Mod. #1 - 38 FR 5091 - 2/23/73
(Hw, D) - See Alcona County
GENESSE COUNTY
Decision #AP-88 (B, H)
37 FR 28870 - 12/29/72
Mod. #1 - 38 FR 5092 - 2/23/73
Decision AP-76 (Highway, Bridge, Airport & Sewer Cons, excl. of Bldgs.)
37 FR 28372 - 12/22/72
Mod. #1 - 38 FR 4628 - 2/16/73
GLADWIN COUNTY
(Hw) - See Alcona County
GOGEBIC COUNTY
Decision #AP-89 (B, H)
37 FR 28844 - 12/29/72
Mod. #1 - 38 FR 5092 - 2/23/73
(Hw, D) - See Alcona County
GRAND TRAVERSE COUNTY
Decision #AP-90 (H,H)
37 FR 28873 - 12/29/72
Mod. #1 - 38 FR 5092 - 2/23/73
(Hw, D) - See Alcona County
GRATIOT COUNTY
(hw) - See Allegan County
HILLSDALE COUNTY
(Hw) - See Allegan County
HOUGHTON COUNTY
(B, H) - See Baraga County
(Hw, D) - See Alcona County
HURON COUNTY
Decision #AP-91 (B, H)
37 FR 28879 - 12/29/72
Mod. #1 - 38 FR 5093 - 2/23/73
(D) - See Alcona County
(Hw) - See Allegan County
INGHAM COUNTY
Decision #AP-92 (B, H)
37 FR 28844 - 12/29/72
Mod. #1 - 38 FR 5093 - 2/23/73
(Hw) - See Allegan County
(R) - See Eaton County

MICHIGAN (cont'd)

IONIA COUNTY
(Hw) - See Allegan County
IOSCO COUNTY
(D & Hw) - See Alcona County
IRON COUNTY
(Hw) - See Alcona County
ISABELLA COUNTY
(Hw) - See Alcona County
JACKSON COUNTY
(Hw) - See Allegan County
KALAMAZOO COUNTY
Decision #AP-93 (B, H)
37 FR 28847 - 12/29/72
Mod. #1 - 38 FR 5093 - 2/23/73
(Hw) - See Allegan County
(R) - See Branch County
KALKASKA COUNTY
(Hw) - See Alcona County
KENT COUNTY
Decision #AP-23 (B)(H)(Hw)
37 FR 20443 - 9/29/72
Mod. # 1-37 FR 22704 - 10/20/72
Decision #AM-402 (R)
36 FR 15895 - 8/18/71
(Hw) - See Allegan County
KEWEENAW COUNTY
(B)(H)- See Baraga County
(Hw) - See Alcona County
LAKE COUNTY
(Hw) - See Alcona County
LAPEER COUNTY
(Hw) - See Allegan County
LEELANAU COUNTY
(B, H) - See Grand Traverse County
(Hw, D) - See Alcona County
LENAWEE COUNTY
(Hw) - See Allegan County
LIVINGSTON COUNTY
(Hw) - See Allegan County
LUCE COUNTY
(Hw, D) - See Alcona County
MACKINAC COUNTY
(B, H) - See Chippewa County
(Hw, D) - See Alcona County
MACOMB COUNTY
Decision #AP-600 (B, H)
37 FR 28866 - 12/29/72
Mod. #1 - 38 FR 5096 - 2/23/73
(D) - See Alcona County
(Hw) - See Genessee County
Decision #AP-601 (R)
37 FR 28797 - 12/29/72
Mod. #1 - 38 FR 5096 - 2/23/73

MICHIGAN (cont'd)

MANISTEE COUNTY
(Hw, D) - See Alcona County
MARQUETTE COUNTY
Decision #AP-94 (B, H)
37 FR 28852 - 12/29/72
Mod. #1 - 38 FR 5094 - 2/23/73
(Hw, D) - See Alcona County
MASON COUNTY
Decision #AP-95 (B, H)
37 FR 28854 - 12/29/72
Mod. #1 - 38 FR 5094 - 2/23/73
(Hw, D) - See Alcona County
MECOSTA COUNTY
(Hw) - See Alcona County
MENOMINEE COUNTY
(D) - See Alcona County
(Hw) - See Alcona County
MIDLAND COUNTY
(Hw) - See Allegan County
MISSAUKEE COUNTY
(Hw) - See Alcona County
MONROE COUNTY
(D) - See Alcona County
(Hw) - See Genessee County
MONTCALM COUNTY
(Hw) - See Allegan County
(R) - See Kent County
MONTMORENCY COUNTY
(Hw) - See Alcona County
MUSKEGON COUNTY
Decision #AP-97 (B, H)
37 FR 28857 - 12/29/72
Mod. #1 - 38 FR 5094 - 2/23/73
Decision #AM-403 (R)
36 FR 15896 - 8/18/71
(D) - See Alcona County
(Hw) - See Allegan County
NEWAYGO COUNTY
(Hw) - See Alcona County

MICHIGAN (Cont'd)

OAKLAND COUNTY
(B, H, R) - See Macomb County
(D) - See Alcona County
(Hw) - See Genessee County
OCEANA COUNTY
(B, H, R) - See Muskegon County
(HW, D) - See Alcona County
OGEMAW COUNTY
(Hw) - See Alcona County
ONTONAGON COUNTY
(B, H) - See Baraga County
(Hw, D) - See Alcona County
OSCEOLA COUNTY
(Hw) - See Alcona County
OSCODA COUNTY
(Hw) - See Alcona County
OTSEGO COUNTY
(Hw) - See Alcona County
OTTAWA COUNTY
(D) - See Alcona County
(Hw) - See Allegan County
(R) - See Allegan County
PRESQUE ISLE COUNTY
(D) - See Alcona County
(Hw) - See Alcona County
ROSCOMMON COUNTY
(Hw) - See Alcona County
SAGINAW COUNTY
Decision #AP-91 (B, H)
37 FR 28879 - 12/29/72
Mod. #1 - 38 FR 5095 - 2/23/73
(Hw) - See Allegan County
SAINT CLAIR COUNTY
Decision #AP-98 (B, H)
37 FR 28860 - 12/29/72
Mod. #1 - 38 FR 5095 - 2/23/73
(D) - See Alcona County
(Hw) - See Allegan County

MICHIGAN (cont'd)

SAINT JOSEPH COUNTY
(Hw) - See Allegan County
(R) - See Branch County
SANILAC COUNTY
(D) - See Alcona County
(Hw) - See Allegan County
SCHOOLCRAFT COUNTY
(D) - See Alcona County
(Hw) - See Alcona County
SHIAWASSEE COUNTY
(Hw) - See Allegan County
TUSCOLA COUNTY
(D) - See Alcona County
(Hw) - See Allegan County
VAN BUREN COUNTY
(D) - See Alcona County
(Hw) - See Allegan County
WASHTENAW COUNTY
Decision #AP-99 (B, H)
37 FR 28863 - 12/29/72
Mod. #1 - 38 FR 5095 - 2/23/73
(Hw) - See Genesee County
WAYNE COUNTY
(B, H, R) - See Macomb County
(D) - See Alcona County
(Hw) - See Genesee County
WEXFORD COUNTY
(Hw) - See Alcona County

MINNESOTA

AITKIN COUNTY
None
ANOKA COUNTY
Decision #AP 605 (B)
38 FR 2073 - 1/19/73
Decision #AP-609 (H, Hw)
38 FR 2085 - 1/19/73
Decision #AP-611 (R)
38 FR 2091 - 1/19/73
BECKER COUNTY
Decision #AP-49 (Hw)
37 FR 25097 - 11/25/72
BELTRAMI COUNTY
None
BENTON COUNTY
None

MINNESOTA (Cont'd)

BIG STONE COUNTY
Decision #AP-50 (Hw)
37 FR 25098 - 11/25/72
BLUE EARTH COUNTY
None
BROWN COUNTY
None
CARLTON COUNTY
None
CARVER COUNTY
Decision #AP-606 (B)
38 FR 2074 - 1/19/73
Decision #AP-612 (R)
38 FR 2095 - 1/19/73
(H, Hw) - See Anoka County
CASS COUNTY
(Hw) - See Becker County
CHIPPEWA COUNTY
(Hw) - See Big Stone County
CHISAGO COUNTY
None
CLAY COUNTY
(Hw) - See Becker County
CLEAR WATER COUNTY
None
COOK COUNTY
Decision #AP-610 (H, Hw)
38 FR 2088 - 1/19/73
Decision #AP-4 (D)
37 FR 14670 - 7/21/72
COTTONWOOD COUNTY
None
CROW WING COUNTY
None
DAKOTA COUNTY
Decision #AP-607 (B)
38 FR 2078 - 1/19/73
Decision #AP-613 (R)
38 FR 2099 - 1/19/73
(H, Hw) - See Anoka County

MINNESOTA (Cont'd)

DODGE COUNTY
None
DOUGLAS COUNTY
(Hw) - See Big Stone County
FAIRBAULT COUNTY
None
FREEBORN COUNTY
None
GOODHUE COUNTY
None
GRANT COUNTY
(Hw) - See Big Stone County
HENNEPIN COUNTY
(B, R) - See Carver County
(H, Hw) - See Agoka County
HOUSTON COUNTY
None
HUBBARD COUNTY
(Hw) - See Becker County
ISANTI COUNTY
None
ITASKA COUNTY
None
JACKSON COUNTY
None
KANABEC COUNTY
None
KANDIYOHI COUNTY
(Hw) - See Becker County
KITTSON COUNTY
None
KOOCHICHING COUNTY
None
LAC QUI PARLE COUNTY
(Hw) - See Big Stone County
LAKE COUNTY
(H)(Hw)-See Cook County
(D)-See Cook County
LAKE OF THE WOODS COUNTY
None
LE SUEUR COUNTY
None
LINCOLN COUNTY
None

MINNESOTA (cont'd)

LYON COUNTY
None
MCLEOD COUNTY
None
MAHNOMEN COUNTY
None
MARSHALL COUNTY
None
MARTIN COUNTY
None
MEEKER COUNTY
None
MILLE LACS COUNTY
Non
MORRISON COUNTY
None
MOWER COUNTY
None
MURRAY COUNTY
None
NICOLLET COUNTY
None
NUBLES COUNTY
None
NORMAN COUNTY
None
OLMSTEAD COUNTY
None
OTTER TAIL COUNTY
(Hw) - See Becker County
PENNINGTON COUNTY
None
PINE COUNTY
None
PIPESTONE COUNTY
None
POLK COUNTY
None
POPE COUNTY
(Hw) - See Big Stone County
RAMSEY COUNTY
(R, B) - See Dakota County
(H, Hw) - See Anoka County

MINNESOTA (Cont'd)

RED LAKE COUNTY
None
REDWOOD COUNTY
None
RENVILLE COUNTY
None
RICE COUNTY
None
ROCK COUNTY
None
ROSEAU COUNTY
None
SAINT LOUIS COUNTY
(D)-See Cook County
(H)(Hw)-See Cook County
CITY OF DULUTH
Decision #AP-608 (B)
38 FR 2082 - 1/19/73
Decision #AP-614 (R)
38 FR 2103 - 1/19/73
SCOTT COUNTY
(H)(Hw)-See Anoka County
(B) - See Carver County
SHERBURNE COUNTY
None
SIBLEY COUNTY
None
STEARNS COUNTY
None
STEELE COUNTY
None
STEVENS COUNTY
(Hw) - See Big Stone County
SWIFT COUNTY
(Hw) - See Big Stone County
TODD COUNTY
(Hw) - See Becker County
TRAVERSE COUNTY
(Hw) - See Big Stone County
WABASHA COUNTY
None
WADENA COUNTY
(Hw) - See Becker County
WASECA COUNTY
None
WASHINGTON COUNTY
(B) - See Dakota County
(H, Hw) - See Anoka County
WATONWAN COUNTY
None
WILKIN COUNTY
(Hw) - See Becker County

MINNESOTA (Cont'd)

WINONA COUNTY
None
WRIGHT COUNTY
None
YELLOW MEDICINE COUNTY
None

MISSISSIPPI

STATEWIDE
Decision #AM-8589 (D)
37 FR 5654 - 3/17/72
Mod. #1-37 FR 24506 - 11/17/72
Decision #AM-8588 (F)
37 FR 5654 - 3/17/72
Mod. #1-37 FR 8601 - 4/28/72
Mod. #2-37 FR 24506 - 11/17/72
ADAMS COUNTY
Decision #AM-495 (Hw)
36 FR 16470 - 8/20/71
Mod. #1-37 FR 643 - 1/14/72
(D) - See Statewide
(F) - See Statewide
ALCORN COUNTY
Decision #AM-491 (Hw)
36 FR 16466 - 8/20/71
Mod. #1-37 FR 641 - 1/14/72
(D) - See Statewide
(F) - See Statewide
AMITE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
ATTALA COUNTY
Decision #AM-494 (Hw)
36 FR 16469 - 8/20/71
Mod. #1-37 FR 643 - 1/14/72
(D) - See Statewide
(F) - See Statewide
BENTON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County

MISSISSIPPI (Cont'd)

BOLIVAR COUNTY
Decision #AM-492 (Hw)
36 FR 16467 - 8/20/71
Mod. #1-37 FR 642 - 1/14/72
(D) - See Statewide
(F) - See Statewide
CALHOUN COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
CARROLL COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
CHICKASAW COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
CHOCTAW COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
CLAIBORNE COUNTY
Decision #AM-493 (Hw)
36 FR 16469 - 8/20/71
Mod. #1-37 FR 642 - 1/14/72
Mod. #2-37 FR 3687 - 2/18/72
(D) - See Statewide
(F) - See Statewide
CLARKE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
CLAY COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
COAHOMA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
COPIAH COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
(R) - See Hinds County
COVINGTON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County

MISSISSIPPI (Cont'd)

DE SOTO COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
FORREST COUNTY
Decision #AM-8264 (R)
37 FR 13017 - 6/30/72
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
FRANKLIN COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
GEORGE COUNTY
Decision #AM-496 (Hw)
36 FR 16471 - 8/20/71
Mod. #1-37 FR 644 - 1/14/72
(D) - See Statewide
(F) - See Statewide
(R) - See Harrison County
GREENE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
GRENADA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
HANCOCK COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See George County
(R) - See Harrison County
HARRISON COUNTY
Decision #AP-159 (B, H)
38 FR 4628 - 2/16/73
Decision #AM-8597 (R)
37 FR 5666 - 3/17/72
(D, F) - See Statewide
(Hw) - See George County
HINDS COUNTY
Decision #AP-158 (B, H,)
38 FR 4636 - 2/16/73
Decision #AP-498 (R)
36 FR 16473 - 8/20/71
(D, F) - See Statewide
(Hw) - See Claiborne County

MISSISSIPPI (Cont'd)

HOLMES COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
HUMPHREYS COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
ISSAQUENA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
ITAWAMBA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
JACKSON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See George County
(R) - See Harrison County
JASPER COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
JEFFERSON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
JEFFERSON DAVIS COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
JONES COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
(R) - See Forest County

MISSISSIPPI (Cont'd)

KEMPER COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
LAFAYETTE COUNTY
(D) - See Statewide
(R) - See Statewide
(Hw) - See Alcorn County
LAMAR COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
LAUDERDALE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
LAWRENCE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
LEAKE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attalo County
LEE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
LEFLORE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
LINCOLN COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
LOWNDES COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
MADISON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
(R) - See Hinds County

MISSISSIPPI (Cont'd)

MARION COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
MARSHALL COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
MONROE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
MONTGOMERY COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
NESHOBA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
NEWTON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
NOXUBEE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
OKTIBBEHA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn County
PANOLA COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
PEARL RIVER COUNTY
(B, H) - See Harrison County
(D) - See Statewide
(F) - See Statewide
(Hw) - See Statewide
(R) - See Harrison County
PERRY COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County
PIKE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Adams County

MISSISSIPPI (Cont'd)

PONTOTOC COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Alcorn COunty
PRENTISS COUNTY
(D) - See Statewide
(F) - See Statewise
(Hw) - See Alcorn County
QUITMAN COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
RANKIN COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
(R) - See Hinds County
SCOTT COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
SHARKEY COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
SIMPSON COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Claiborne County
(R) - See Hinds County
SMITH COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Attala County
STONE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Georgia County
(R) - See Harrison County
SUNFLOWER COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County
TALLAHATCHIE COUNTY
(D) - See Statewide
(F) - See Statewide
(Hw) - See Bolivar County

MISSISSIPPI (Cont'd)

TATE COUNTY
(D,F)-See Statewide
(Hw)-See Bolivar County
TIPPAH COUNTY
(D,F)-See Statewide
(Hw)-See Alcorn County
TISHOMINGO COUNTY
(D,F)-See Statewide
(Hw)-See Alcorn County
TUNICA COUNTY
(D,F)-See Statewide
(Hw)-See Bolivar County
UNION COUNTY
(D,F,)-See Statewide
(Hw)-See Alcorn County
WALTHALL COUNTY
(D,F)-See Statewide
(Hw)-See Adams County
WARREN COUNTY
(D,F)-See Statewide
(Hw)-See Claiborne County
WASHINGTON COUNTY
(D,F)-See Statewide
(Hw)-See Bolivar County
WAYNE COUNTY
(D,F)-See Statewide
(Hw)-See Adams County
WEBSTER COUNTY
(D,F)-See Statewide
(Hw)-See Alcorn County
WILKINSON COUNTY
(D,F)-See Statewide
(Hw)-See Adams County
WINSTON COUNTY
(D,F)-See Statewide
(Hw)-See Attalo County
YALOBUSHA COUNTY
(D,F)-See Statewide
(Hw)-See Bolivar County
YAZOO COUNTY
(D,F)-See Statewide
(Hw)-See Claiborne County
(R)-See Hinds County

MISSOURI

ADAIR COUNTY
None
ANDREW COUNTY
None
ATCHISON COUNTY
None
AUDRAIN COUNTY
None
BARRY COUNTY
None
BARTON COUNTY
Decision #AP-509 (H-Hw)
37 FR 21783 - 10/13/72
BATES COUNTY
None
BENTON COUNTY
None
BOLLINGER COUNTY
None
BOONE COUNTY
None
BUCHANAN COUNTY
None
BUTLER COUNTY
None
CALDWELL COUNTY
None
CALLAWAY COUNTY
None
CAMDEN COUNTY
None
CAPE GIRARDEAU COUNTY
Decision #AP-602 (D)
38 FR 1433-1/12/73
CARROLL COUNTY
None
CARTER COUNTY
None

MISSOURI (Cont'd)

CASS COUNTY
Decision #AP-517 (B-H-Hw)
37 FR 26218 - 12/8/72
Mod. #1-37 FR 28353-12/22/72
Mod. #2-38 FR 1435-1/12/73
Mod. #3-38 FR 4078-2/9/73
Decision #AP-516 (H)
37 FR 26206 - 12/8/72
Mod. #1-38 FR 1435-1/12/73
Mod. #2-38 FR 4078-2/9/73
CEDAR COUNTY
None
CHARITON COUNTY
None
CHRISTIAN COUNTY
None
CLARK COUNTY
None
CLAY COUNTY
(B-H-Hw) - See Cass County
(H) - See Cass County
CLINTON COUNTY
None
COLE COUNTY
None
COOPER COUNTY
None
CRAWFORD COUNTY
None
DADE COUNTY
None
DALLAS COUNTY
None
DAVIESS COUNTY
None
DE KALB COUNTY
None
DENT COUNTY
None
DOUGLAS COUNTY
None
DUNKLIN COUNTY
None
FRANKLIN COUNTY
None
GASCONADE COUNTY
None
GENTRY COUNTY
None
GREENE COUNTY
None
GRUNDY COUNTY
None
HARRISON COUNTY
None
HENRY COUNTY
None

MISSOURI (Cont'd)

HICKORY COUNTY
None
HOLT COUNTY
Decision #AP-506 (H-Hw)
37 FR 21774 - 10/13/72
HOWARD COUNTY
None
HOWELL COUNTY
None
IRON COUNTY
None
JACKSON COUNTY
(B-H-Hw) - See Cass County
(H) - See Cass County
JASPER COUNTY
None
JEFFERSON COUNTY
(D)-See Cape Girardeau County
JOHNSON COUNTY
None
KNOX COUNTY
None
LACLEDE COUNTY
(H-Hw) - See Barton County
LAFAYETTE COUNTY
None
LAWRENCE COUNTY
(H-Hw) - See Barton County
LEWIS COUNTY
None
LINCOLN COUNTY
None
LINN COUNTY
Decision #AP-508 (H-Hw)
37 FR 21779 - 10/13/72
Mod. #1-37 FR 23057 - 10/27/72
LIVINGSTON COUNTY
None
MC DONALD COUNTY
None
MACON COUNTY
None
MADISON COUNTY
None
MARIES COUNTY
None
MARION COUNTY
None
MERCER COUNTY
None
MILLER COUNTY
None

MISSOURI (Cont'd)

MISSISSIPPI COUNTY
(D)-See Cape Girardeau County
MONITEAU COUNTY
None
MONROE COUNTY
None
MONTGOMERY COUNTY
None
MORGAN COUNTY
None
NEW MADRID COUNTY
None
NEWTON COUNTY
None
NODAWAY COUNTY
None
OREGON COUNTY
None
OSAGE COUNTY
None
OZARK COUNTY
None
PEMISCOT COUNTY
None
PERRY COUNTY
(D)-See Cape Girardeau County
PETTIS COUNTY
(H-Hw) - See Linn County
PHELPS COUNTY
None
PIKE COUNTY
None
PLATTE COUNTY
(B-H-Hw) - See Cass County
(R) - See Cass County
POLK COUNTY
None
PULASKI COUNTY
None
PUTNAM COUNTY
None
RALLS COUNTY
None
RANDOLPH COUNTY
None
RAY COUNTY
(B, H, Hw, R) - See Cass County
REYNOLDS COUNTY
None
RIPLEY COUNTY
None

MISSOURI (Cont'd)

ST. CHARLES COUNTY
Decision #AP-505 (B-H-Hw)
37 FR 17933 - 9/1/72
Mod. #1-37 FR 19884 - 9/22/72
Mod. #2 - 37 FR 25109 - 11/25/72
Mod. #3 - 38 FR 4078 - 2/9/73
Mod. #4 - 38 FR 5096 - 2/23/73
Decision #AP-504 (R)
37 FR 17881 - 9/1/72
Mod. #1-38 FR 4078-2/9/73
(D)-See Cape Girardeau County
ST. CLAIR COUNTY
None
ST. FRANCOIS COUNTY
None
ST. LOUIS COUNTY
(B-H-Hw-R) - See St. Charles County
(D)-See Cape Girardeau County
ST. LOUIS CITY
(B-H-Hw-R) - See St. Charles County
STE. GENEVIEVE COUNTY
(D)-See Cape Girardeau County
SALINE COUNTY
None
SCHUYLER COUNTY
None
SCOTLAND COUNTY
None
SCOTT COUNTY
Decision #AP-507 (H-Hw)
37 FR 21776 - 10/13/72
Mod. #1-37 FR 25109 - 11/25/72
(D)-See Cape Girardeau County
SHANNON COUNTY
None
SHELBY COUNTY
None
STODDARD COUNTY
None
STONE COUNTY
None
SULLIVAN COUNTY
None
TANEY COUNTY
None

MISSOURI (cont'd)

TEXAS COUNTY
None
VERNON COUNTY
None
WARREN COUNTY
None
WASHINGTON COUNTY
None
WAYNE COUNTY
None
WEBSTER COUNTY
None
WORTH COUNTY
None
WRIGHT COUNTY
None

MONTANA

BEAVERHEAD COUNTY
Decision #AP-230 (H-Hw)
37 FR 17945 - 9/1/72
Mod. #1 37 FR 21702 - 10/13/72
Mod. #2 37 FR 23502 - 11/3/72
Mod. #3 37 FR 25616 - 12/1/72
Mod. #4 37 FR 26779 12/15/72
BIG HORN COUNTY
(H-Hw)-See Beaverhead County
BLAINE COUNTY
Decision #AP-229 (H-Hw)
37 FR 17940 - 9/1/72
Mod. #1 - 37 FR 21702 - 10/13/72
Mod. #2 - 37 FR 23500 - 11/3/72
Mod. #3 - 37 FR 25616 - 12/1/72
Mod. #4 - 37 FR 26779 - 12/15/72
CARBON COUNTY
(H-Hw)-See Beaverhead County
CARTER COUNTY
(H-Hw)-See Blaine County
CASCADE COUNTY
(H-Hw)-See Beaverhead County
Decision #AP-237 (B)
37 FR 19900 - 9/22/72
Mod. #1 - 37 FR 25617 - 12/1/72
Mod. #2 - 37 FR 26780 - 12/15/72
CHATEAU COUNTY
(H-Hw)-See Beaverhead County
CUSTER COUNTY
(H-Hw)-See Blaine County
Decision #AP-241 (B)
37 FR 19916 - 9/22/72
Mod. #1 - 37 FR 25619 - 12/1/72
Mod. #2 - 37 FR 26780 - 12/15/72

MONTANA (Cont'd)

DANIELS COUNTY
(H-Hw) - See Blaine County
DAWSON COUNTY
(H-Hw) - See Blaine County
DEERLODGE COUNTY
(H-Hw) - See Beaverhead County
FALLON COUNTY
(H-Hw) - See Blaine County
FERGUS COUNTY
(H-Hw) - See Beaverhead County
FLATHEAD COUNTY
(H-Hw) - See Beaverhead County
Decision #AP-239 (B)
37 FR 19909 - 9/22/72
Mod. #1-37 FR 23506 - 11/3/72
Mod. #2-37 FR 26203 - 12/8/72
Mod. #3-37 FR 26780 - 12/15/72
GALLATIN COUNTY
(H-Hw) - See Beaverhead County
Decision #AP-240 (B)
37 FR 19912 - 9/22/72
Mod. #1-37 FR 23508 - 11/3/72
Mod. #2-37 FR 26203 - 12/8/72
GARFIELD COUNTY
(H-Hw) - See Blaine County
GLACIER COUNTY
(H-Hw) - See Beaverhead County
GOLDEN VALLEY COUNTY
(H-Hw) - See Beaverhead County
GRANITE COUNTY
(H-Hw) - See Beaverhead County
HILL COUNTY
(H-Hw) - See Beaverhead County
JEFFERSON COUNTY
(H-Hw) - See Beaverhead County
JUDITH BASIN COUNTY
(H-Hw) - See Beaverhead County
LAKE COUNTY
(H-Hw)- See Beaverhead County
LEWIS & CLARK COUNTY
(H-Hw) - See Beaverhead County
(B) - See Gallatin County
LIBERTY COUNTY
(H-Hw) - See Beaverhead County
LINCOLN COUNTY
(H-Hw) - See Beaverhead County
McCONE COUNTY
(H-Hw) - See Blaine County
MADISON COUNTY
(H-Hw) - See Beaverhead County
MEAGHER COUNTY
(H-Hw) - See Beaverhead County

MONTANA (Cont'd)

MINERAL COUNTY
(H-Hw) - See Beaverhead County
MISSOULA COUNTY
(H-Hw) - See Beaverhead County
(B) - See Flathead County
MUSSELSHELL COUNTY
(H-Hw) - See Beaverhead County
PARK COUNTY
(H-Hw) - See Beaverhead County
PETROLEUM COUNTY
(H-Hw) - See Blaine County
PHILLIPS COUNTY
(H-Hw) - See Blaine County
PONDERA COUNTY
(H-Hw) - See Beaverhead County
POWDER RIVER COUNTY
(H-Hw) - See Blaine County
POWELL COUNTY
(H-Hw) - See Beaverhead County
PRAIRIE COUNTY
(H-Hw) - See Blaine County
RAVALLI COUNTY
(H-Hw) - See Beaverhead County
RICHLAND COUNTY
(H-Hw) - See Blaine County
ROOSEVELT COUNTY
(H-Hw) - See Blaine County
ROSEBUD COUNTY
(H-Hw) - See Beaverhead County
SANDERS COUNTY
(H-Hw) - See Beaverhead County
SHERIDAN COUNTY
(H-Hw) - See Blaine County
SILVERBOW COUNTY
(H-Hw) - See Beaverhead County
Decision #AP-238 (B)
37 FR 19904 - 9/22/72
Mod. #1-37 FR 26201 - 12/8/72
STILLWATER COUNTY
(H-Hw) - See Beaverhead County
SWEETGRASS COUNTY
(H-Hw) - See Beaverhead County
TETON COUNTY
(H-Hw) - See Beaverhead County

MONTANA (Cont'd)

TOOLE COUNTY
(H-Hw) - See Beaverhead County
TREASURE COUNTY
(H-Hw) - See Beaverhead County
VALLEY COUNTY
(H-Hw) - See Blaine County
WHEATLAND COUNTY
(H-Hw) - See Beaverhead County
WIBAUX COUNTY
(H-Hw) - See Blaine County
YELLOW STONE COUNTY
(H-Hw) - See Beaverhead County
(B) - See Custer County

NEBRASKA

ADAMS COUNTY
Decision #AP-211 (Hw)
37 FR 15829 - 8/4/72
ANTELOPE COUNTY
(Hw) - See Adams County
ARTHUR COUNTY
(Hw) - See Adams County
BANNER COUNTY
(Hw) - See Adams County
BLAINE COUNTY
(Hw) - See Adams County
BOONE COUNTY
(Hw) - See Adams County
BOX BUTTE COUNTY
(Hw) - See Adams County
BOYD COUNTY
(Hw) - See Adams County
BROWN COUNTY
(Hw) - See Adams County
BUFFALO COUNTY
(Hw) - See Adams County
BURT COUNTY
(Hw) - See Adams County
BUTLER COUNTY
(Hw) - See Adams County
CASS COUNTY
(Hw) - See Adams County

NEBRASKA (Cont'd)

CEDAR COUNTY
(Hw) - See Adams County
CHASE COUNTY
(Hw) - See Adams County
CHERRY COUNTY
(Hw) - See Adams County
CHEYENNE COUNTY
(Hw) - See Adams County
CLAY COUNTY
(Hw) - See Adams County
COLFAX COUNTY
(Hw) - See Adams County
CUMING COUNTY
(Hw) - See Adams County
CUSTER COUNTY
(Hw) - See Adams County
DAKOTA COUNTY
(Hw) - See Adams County
DAWES COUNTY
(Hw) - See Adams County
DAWSON COUNTY
(Hw) - See Adams County
DEUEL COUNTY
(Hw) - See Adams County
DIXON COUNTY
(Hw) - See Adams County
DODGE COUNTY
(Hw) - See Adams County
DOUGLAS COUNTY
Decision #AP-210 (B-H-Hw)
37 FR 15826 - 8/4/72
DUNDY COUNTY
(Hw) - See Adams County
FILLMORE COUNTY
(Hw) - See Adams County
FRANKLIN COUNTY
(Hw) - See Adams County
FRONTIER COUNTY
(Hw) - See Adams County
FURNAS COUNTY
(Hw) - See Adams County
GAGE COUNTY
(Hw) - See Adams County
GARDEN COUNTY
(Hw) - See Adams County
GARFIELD COUNTY
(Hw) - See Adams County
GOSPER COUNTY
(Hw) - See Adams County
GRANT COUNTY
(Hw) - See Adams County

NEBRASKA (Cont'd)

GREELEY COUNTY
(Hw) - See Adams County
HALL COUNTY
(Hw) - See Adams County
HAMILTON COUNTY
(Hw) - See Adams County
HARLAN COUNTY
(Hw) - See Adams County
HAYES COUNTY
(Hw) - See Adams County
HITCHCOCK COUNTY
(Hw) - See Adams County
HOLT COUNTY
(Hw) - See Adams County
HOOKER COUNTY
(Hw) - See Adams County
HOWARD COUNTY
(Hw) - See Adams County
JEFFERSON COUNTY
(Hw) - See Adams County
JOHNSON COUNTY
(Hw) - See Adams County
KEARNEY COUNTY
(Hw) - See Adams County
KEITH COUNTY
(Hw) - See Adams County
KEYAPAHA COUNTY
(Hw) - See Adams County
KIMBALL COUNTY
(Hw) - See Adams County
KNOX COUNTY
(Hw) - See Adams County
LANCASTER COUNTY
(Hw) - See Adams County
Decision #AM-2,441 (B)
36 FR 16874 - 8/25/71
Mod. #1-37 FR 11117 - 6/2/72
Decision #AM-6,140 (B)
36 FR 21736 - 11/12/71
LINCOLN COUNTY
(Hw) - See Adams County
LOGAN COUNTY
(Hw) - See Adams County
LOUP COUNTY
(Hw) - See Adams County
MC PHERSON COUNTY
(Hw) - See Adams County
MADISON COUNTY
(Hw) - See Adams County

NEBRASKA (Cont'd)

MERRICK COUNTY
(Hw) - See Adams County
MORRILL COUNTY
(Hw) - See Adams County
NANCE COUNTY
(Hw) - See Adams County
NEMAHA COUNTY
(Hw) - See Adams County
NUCKOLLS COUNTY
(Hw) - See Adams County
OTOE COUNTY
(Hw) - See Adams County
PAWNEE COUNTY
(Hw) - See Adams County
PERKINS COUNTY
(Hw) - See Adams County
PHELPS COUNTY
(Hw) - See Adams County
PIERCE COUNTY
(Hw) - See Adams County
PLATTE COUNTY
(Hw) - See Adams County
POLK COUNTY
(Hw) - See Adams County
RED WILLOW COUNTY
(Hw) - See Adams County
RICHARDSON COUNTY
(Hw) - See Adams County
ROCK COUNTY
(Hw) - See Adams County
SALINE COUNTY
(Hw) - See Adams County
SARPY COUNTY
(B-H-Hw) - See Douglas County
SAUNDERS COUNTY
(Hw) - See Adams County
SCOTTS BLUFF COUNTY
(Hw) - See Adams County
SEWARD COUNTY
(Hw) - See Adams County
SHERIDAN COUNTY
(Hw) - See Adams County
SHERMAN COUNTY
(Hw) - See Adams County
SIOUX COUNTY
(Hw) - See Adams County

NEBRASKA (Cont'd)

STANTON COUNTY
(Hw) - See Adams County
THAYER COUNTY
(Hw) - See Adams County
THOMAS COUNTY
(Hw) - See Adams County
THURSTON COUNTY
(Hw) - See Adams County
VALLEY COUNTY
(Hw) - See Adams County
WASHINGTON COUNTY
(Hw) - See Adams County
WAYNE COUNTY
(Hw) - See Adams County
WEBSTER COUNTY
(Hw) - See Adams County
WHEELER COUNTY
(Hw) - See Adams County
YORK COUNTY
(Hw) - See Adams County

NEVADA

STATEWIDE (Excluding the Nevada Test Site & Tonopah Test Range)
Decision #AP-236 (H-Hw)
37 FR 19919 - 9/22/72
Mod. #1-37 FR 21219 - 10/6/72
Mod. #2-37 FR 23973-11/10/72
Mod. #3-37 FR 28353-12/22/72
CHURCHILL COUNTY
Decision #AP-242 (B)
37 FR 19934 - 9/22/72
(H-Hw) - See Statewide
CLARK COUNTY
Decision #AM-6197 (R)(Excluding N.T.S)
36 FR 22110 - 11/19/71
Decision #AP-243 (B) (Excluding N.T.S)
37 FR 19945 - 9/22/72
Mod. #1-37 FR 19945 - 9/22/72
Mod. #2-37 FR 23973-11/10/72
Mod. #3-37 FR 28353-12/22/72
(H-Hw) - See Statewide
Decision #AP-225 (B-H-Hw) (Nevada Test Site including the Tonopah Test Site
37 FR 17355 - 8/25/72
DOUGLAS COUNTY
(H-Hw) - See Statewide

NEVADA (Cont'd)

ELKA COUNTY
(H-Hw) - See Statewide
ESMERALDA COUNTY
(H-Hw) - See Statewide
EUREKA COUNTY
(H-Hw) - See Statewide
HUMBOLDT COUNTY
(H-Hw) - See Statewide
LANDER COUNTY
(H-Hw) - See Statewide
LINCOLN COUNTY
(B) - See Clark County (AP-243)
(H-Hw) - See Statewide
LYON COUNTY
(H-Hw) - See Statewide
MINERAL COUNTY
(H-Hw) - See Statewide
(B) - See Churchill County
NYE COUNTY
(B) - See Clark County(#AP-243)
(B-H-Hw) - See Clark County(#AP-225)
(H-Hw) - See Statewide
PERSHING COUNTY
(H-Hw) - See Statewide
STOREY COUNTY
(H-Hw) - See Statewide
WASHAE COUNTY
Decision #AM-6198 (R)
36 FR 22112 - 11/19/72
(H-Hw) - See Statewide
(B) - See Churchill County
WHITE PINE COUNTY
(H-Hw) - See Statewide
CARSON CITY (Ind.)
(H-Hw) - See Statewide

NEW HAMPSHIRE

BELKNAP COUNTY
None
CARROLL COUNTY
None
CHESHIRE COUNTY
None
COOS COUNTY
None

NEW HAMPSHIRE (Cont'd)

GRAFTON COUNTY
None
HILLSBORO COUNTY
None
MERRIMACK COUNTY
None
ROCKINGHAM COUNTY
DEcision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
STRAFFORD COUNTY
None
SULLIVAN COUNTY
None

NEW JERSEY

ATLANTIC COUNTY
Decision #AM-1,706 (B,H,Hw)
36 FR-14799 - 8/11/71
Mod. #1-36 FR 20078 - 10/15/71
Mod. #2-37 FR 966 - 1/21/72
Mod. #3-37 FR 5660 - 3/17/72
Mod. #4-37 FR 6132 - 3/24/72
Mod. #5-37 FR 17315 - 8/25/72
Decision #AM-9,322 (D)
37 FR 10693 - 5/26/72
Mod. #1-37 FR 19871 - 9/22/72
BERGEN COUNTY
Decision #AM-1,707 (B,H,Hw)
36 FR 14805 - 8/11/71
Mod. #1-36 FR 19649 - 10/8/71
Mod. #2-36 FR 20462 - 10/22/71
Mod. #3-37 FR 966 - 1/21/72
Mod. #4-37 FR 6132 - 3/24/72
Mod. #5-37 FR 17315 - 8/25/72
(D) - See Atlantic County
BURLINGTON COUNTY
Decision #AM-1,708 (B,H,Hw)
36 FR 14812 - 8/11/71
Mod. #1-36 FR 19285 - 10/1/71
Mod. #2-37 FR 967 - 1/21/72
Mod. #3-37 FR 5660 - 3/17/72
Mod. #4-37 FR 7029 - 4/1/72
Mod. #5-37 FR 7922 - 4/21/72
Mod. #6-37 FR 17315 - 8/25/72
(D) - See Atlantic County

NEW JERSEY (cont'd)

CAMDEN COUNTY
Decision #AM-1,709 (B,H,Hw)
36 FR 14820 - 8/11/71
Mod. #1-36 FR 18274 - 9/10/71
Mod. #2-37 FR 20078 - 10/15/72
Mod. #3-37 FR 967 - 1/21/72
Mod. #4-37 FR 5661 - 3/17/72
Mod. #5-37 FR 6133 - 3/24/72
(D) - See Atlantic County

CAPE MAY COUNTY
(B,H,Hw,D) - See Atlantic County

CUMBERLAND COUNTY
Decision #AM-1,710 (B,H,Hw)
36 FR 14827 - 8/11/71
Mod. #1-36 FR 20079 - 10/15/71
Mod. #2-37 FR 968 - 1/21/72
Mod. #3-37 FR 5661 - 3/17/72
Mod. #4-37 FR 6133 - 3/24/72
Mod. #5-37 FR 17315 - 8/25/72
(D) - See Atlantic County

ESSEX COUNTY
Decision #AM-1711 (B, H, Hw)
36 FR 14834 - 8/11/71

GLOUCESTER COUNTY
(B,H,Hw) - See Camden County
(D) - See Atlantic County

HUDSON COUNTY
Decision #AM-1,712 (B,H,Hw)
36 FR 14841 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-37 FR 968 - 1/21/72
Mod. #3-37 FR 6134 - 3/24/72
Mod. #4-37 FR 17903 - 9/1/72
Mod. #5-37 FR FR 25621 - 12/1/72
(D) - See Atlantic County

HUNTERDON COUNTY
None

MERCER COUNTY
Decision #AM-1,714 (B,H,Hw)
36 FR 14848 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-36 FR 20079 - 10/15/71
Mod. #3-37 FR 969 - 1/21/72
Mod. #4-37 FR 6135 - 3/24/72
Mod. #5-37 FR 17316 - 8/25/72
Mod. #6-37 FR 7922 - 4/21/72
Mod. #7-38 FR 3251 - 2/2/73
(D)-See Atlantic County

NEW JERSEY (Cont'd)

MIDDLESEX COUNTY
Decision #AM-1,714 (B,H,Hw)
36 FR 14848 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-36 FR 20079 - 10/15/71
Mod. #3-37 FR 969 - 1/21/72
Mod. #4-37 FR 6135 - 3/24/72
Mod. #5-37 FR 17316 - 8/25/72
(D) - See Atlantic County

MONMOUTH COUNTY
Decision #AM-1,715 (B,H,Hw)
36 FR 14863 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-36 FR 20079 - 10/15/71
Mod. #3-36 FR 20462 - 10/22/71
Mod. #4-37 FR 970 - 1/21/72
Mod. #5-37 FR 6135 - 3/24/72
Mod. #6-37 FR 17903 - 9/1/72
(D) - See Atlantic County

MORRIS COUNTY
Decision #AM-1,716 (B,H,Hw)
36 FR 14870 - 8/11/71
Mod. #1-36 FR 19285 - 10/1/71
Mod. #2-36 FR 19650 - 10/8/71
Mod. #3-36 FR 20079 - 10/15/71
Mod. #4-37 FR 970 - 1/21/72
Mod. #5-37 FR 6136 - 3/24/72
Mod. #6-37 FR 17904 - 9/1/72
(D) - See Atlantic County

OCEAN COUNTY
Decision #AM-1,717 (B,H,Hw)
36 FR 14878 - 8/11/71
Mod. #1-36 19650 - 10/8/71
Mod. #2-36 20079 - 10/15/71
Mod. #3-36 20462 - 10/22/71
Mod. #4-37 971 - 1/21/72
Mod. #5-37 6136 - 3/24/72
Mod. #6-37 17904 - 9/1/72
(D) - See Atlantic County

PASSAIC COUNTY
Decision #AM-1,718 (B,H,Hw)
36 FR 14885 - 8/11/71
Mod. #1-36 FR 20080 - 10/15/71
Mod. #2-37 FR 971 - 1/21/72
Mod. #3-37 FR 5662 - 3/17/72
Mod. #4-37 FR 6137 - 3/24/72
(D) - See Atlantic County

NEW JERSEY (Cont'd)

SALEM COUNTY
(D) - See Atlantic County

SOMERSET COUNTY
Decision #AM-1,719 (B,H,Hw)
36 FR 14892 - 8/11/71
Mod. #1-36 FR 19285 - 10/1/71
Mod. #2-36 FR 20080 - 10/15/71
Mod. #3-37 FR 972 - 1/21/72
Mod. #4-37 FR 6137 - 3/24/72
(D) - See Atlantic County

SUSSEX COUNTY
None

UNION COUNTY
Decision #AM-1,720 (B,H,Hw)
36 FR 14900 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-36 FR 20080 - 10/15/71
Mod. #3-37 FR 972 - 1/21/72
Mod. #4-37 FR 5662 - 3/17/72
Mod. #5-37 FR 6137 - 3/24/72
Mod. #6-37 FR 17316 - 8/25/72
(D) - See Atlantic County

WARREN COUNTY
None

NEW MEXICO

STATEWIDE
Decision #AM-11,406 (Streets, Highways, Utilities and Light Engineering Construction)
37 FR 6139 - 3/24/72
Mod. #1-37 FR 7429 - 4/14/72
Mod. #2-37 FR 9169 - 5/5/72
Mod. #3-37 FR 11621 - 6/9/72
Decision #AP-700 (Building & Heavy Engineering Construction)
38 FR 4162-2/9/73
Mod. #1 - 38 FR 5096 - 2/23/73

BERNALILLO COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

CATRON COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

CHAVES COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

COLFAX COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

CURRY COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

NEW MEXICO (Cont'd)

DE BACA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

DONA ANA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide
Decision #AP-340 (R)
37 FR 19869-9/22/72

EDDY COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

GRANT COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

GUADALUPE COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

HARDING COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

HIDALGO COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

LEA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

LINCOLN COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

LOS ALAMOS COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

LUNA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

McKINLEY COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

MORAW COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

OTERO COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

QUAY COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

RIO ARRIBA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

ROOSEVELT COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SANDOVAL COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SAN JUAN COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SAN MIGUEL COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SANTA FE COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SIERRA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

SOCORRO COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

TAOS COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

TORRANCE COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

NEW MEXICO (Cont'd)

UNION COUNTY
(B,HE,S,Hw,U,LE)-See Statewide
VALENCIA COUNTY
(B,HE,S,Hw,U,LE)-See Statewide

NEW YORK

ALBANY COUNTY
Decision #AP-452 (B,H,Hw)
37 FR 26782 - 12/15/72
ALLEGANY COUNTY
None
BRONX COUNTY
Decision #AM-1,721 (B,H,Hw)
36 FR 14908 - 8/11/71
Mod. #1-36 FR 18988 - 9/24/71
Mod. #2-37 FR 1434 - 1/28/72
Mod. #3-37 FR 5169-3/10/72
Mod. #4-37 FR 12019 - 6/16/72
Mod. #5-37 FR 23510 - 11/3/72
Decision #AP-400 (R)
37 FR 13913 - 7/14/72
Mod. #1-37 FR 23510-11/3/72
Decision #AM-9,322 (D)
37 FR 10693 - 5/26/72
Mod. #1-37 FR 19871 - 9/22/72
Mod. #2-38 FR 5097 - 2/23/73
BROOME COUNTY
Decision #AP-469 (B,H,Hw)
38 FR 4169-2/9/73
CATTARAUGUS COUNTY
None
CAYUGA COUNTY
Decision #AP-14 (D)
37 FR 14670 - 7/21/72
CHAUTAUQUA COUNTY
(D) - See Cayuga County
CHEMUNG COUNTY
None
CHENANGO COUNTY
None

NEW YORK (Cont'd)

CLINTON COUNTY
None
COLUMBIA COUNTY
None
CORTLAND COUNTY
None
DELAWARE COUNTY
None
DUTCHESS COUNTY
Decision #AM-1,724 (B,H,Hw)
36 FR 14921 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-37 FR 973 - 1/21/72
Mod. #3-37 FR 7029 - 4/7/72
(D) - See Bronx County
ERIE COUNTY
Decision #AM-1,725 (B,H,Hw)
36 FR 14928 - 8/11/71
Mod. #1-36 FR 19287 - 10/1/71
Mod. #2-36 FR 20462 - 10/22/71
Mod. #3-37 FR 973 - 1/21/72
Mod. #4-37 FR 6611 - 3/31/72
Mod. #5-37 FR 22705 - 10/20/72
(D) - See Cayuga County
ESSEX COUNTY
None
FRANKLIN COUNTY
(D) - See Cayuga County
FULTON COUNTY
None
GENESSE COUNTY
None
GREENE COUNTY
None
HAMILTON COUNTY
None
HERKIMER COUNTY
None
JEFFERSON COUNTY
Decision #AM-1,726 (B,H,Hw)
36 FR 14932 - 8/11/71
Mod. #1-36 FR 19650 - 10/8/71
Mod. #2-36 FR 20839 - 10/29/71
Mod. #3-37 FR 973 - 1/21/72
Mod. #4-37 FR 6611 - 3/31/72
Mod. #5-37 FR 19886 - 8/22/72
(D) - See Cayuga County

NEW YORK (Cont'd)

KINGS COUNTY
(B,H,Hw,R,D) - See Bronx County
LEWIS COUNTY
None
LIVINGSTON COUNTY
None
MADISON COUNTY
None
MONROE COUNTY
Decision #AP-453 (B,H,Hw)
37 FR 28380-12/22/72
(D) - See Cayuga County
MONTGOMERY COUNTY
None
NASSAU COUNTY
Decision #AM-1,728 (B,H,Hw)
Mod. #1-36 FR 18988 - 9/24/71
Mod. #2-37 FR 973 - 1/21/72
Mod. #3-37 FR 1434 - 1/28/72
Mod. #4-37 FR 4021 - 2/25/72
Mod. #5-37 FR 6612 - 3/31/72
Mod. #6-37 FR 13018 - 6/30/72
(D) - See Bronx County
NEW YORK COUNTY
(B,H,Hw,R,D) - See Bronx County
NIAGARA COUNTY
Decision #AM-1,729 (B,H,Hw)
36 FR 14950 - 8/11/71
Mod. #1-36 FR 19651 - 10/8/71
Mod. #2-36 FR 20462 - 10/22/71
Mod. #3-37 FR 973 - 1/21/72
Mod. #4-37 FR 6612 - 3/31/72
(D) - See Cayuga County
ONEIDA COUNTY
Decision #AM-1,730 (B,H,Hw)
36 FR 14955 - 8/11/71
Mod. #1-36 FR 19651 - 10/8/71
Mod. #2-36 FR 20839 - 10/29/71
Mod. #3-37 FR 973 - 1/21/72
Mod. #4-37 FR 1434 - 1/28/72
Mod. #5-37 FR 6612 - 3/31/72

NEW YORK (Cont'd)

ONEIDA COUNTY
Decision #AM-1,730 (B,H,Hw)(Cont'd)
Mod. #6-37 FR 9595 - 5/12/72
Mod. #7-37 FR 19887 - 9/22/72
ONONDAGA COUNTY
Decision #AM-1,731 (B,H,Hw)
36 FR 14960 - 8/11/71
Mod. #1-36 19287 - 10/1/71
Mod. #2-36 FR 20463 - 10/22/71
Mod. #3-36 FR 20839 - 10/29/71
Mod. #4-37 FR 974 - 1/21/72
Mod. #5-37 FR 6613 - 3/31/72
Mod. #6-27 FR 19888 - 9/22/72
ONTARIO COUNTY
None
ORANGE COUNTY
Decision #AM-1,732 (B,H,Hw)
36 FR 14965 - 8/11/71
Mod. #1-36 FR 20080 - 10/15/71
Mod. #2-37 FR 974 - 1/21/72
Mod. #3-37 FR 7030 - 4/7/72
Mod. #4-37 FR 22705 - 10/20/72
Mod. #5-38 FR 2010-1/19/73
(D) - See Bronx County
ORLEANS COUNTY
(D) - See Cayuga County
OSWEGO COUNTY
(D) - See Cayuga County
OTSEGA COUNTY
None
PUTNAM COUNTY
None
QUEENS COUNTY
(B,H,Hw,R,D) - See Bronx County
RENSSELAER COUNTY
Decision #AM-1,733 (B,H,Hw)
36 FR 14972 - 8/11/71
Mod. #1-36 FR 19288 - 8/11/71
Mod. #2-36 FR 20839 - 10/29/71
Mod. #3-37 FR 974 - 1/21/72
Mod. #4-37 FR 6613 - 3/31/72
Mod. #5-37 FR 22706 - 10/20/72
Mod. #6-37 FR 23058 - 10/27/72
RICHMOND COUNTY
(B,H,Hw,R,D) - See Bronx County
ROCKLAND COUNTY
(D) - See Albany County

NEW YORK (Cont'd)

ST LAWRENCE COUNTY
(D)-See Cayuga County
SARATOGA COUNTY
Decision #AP-451 (B,H,Hw)
37 FR 25099 - 11/25/72
SCHENECTADY COUNTY
Decision #AM-1734 (B,H,Hw)
36 FR 14976 - 8/11/71
Mod. #1 - 36 FR 19288 - 10/1/71
Mod. #2 - 36 FR 20839 - 10/29/71
Mod. #3-37 FR 974-1/21/72
Mod. #4-37 FR 6613-3/31/72
Mod. #5 - 37 FR 23062 - 10/27/72
SCHOHARIE COUNTY
None
SCHUYLER COUNTY
None
SENECA COUNTY
None
STEUBEN COUNTY
None
SUFFOLK COUNTY
Decision #AM-1735 (B,H,Hw)
36 FR 14890 - 8/11/71
Mod. #1 - 36 FR 18988 - 9/24/71
Mod. #2 - 37 FR 4021 - 2/2 /72
Mod. #3 - 37 FR 22706 - 10/20/72
Mod. #4 - 37 FR 23973 - 11/10/72
(D)-See Bronx County
SULLIVAN COUNTY
None
TIOGA COUNTY
None
TOMPKINS COUNTY
None
ULSTER COUNTY
None
WARREN COUNTY
None
WASHINGTON COUNTY
None
WAYNE COUNTY
(D) - See Cayuga County
WESTCHESTER COUNTY
Decision #AM-1,736 (B,H,Hw)
36 FR 14985 - 8/11/71
Mod. #1-36 FR 19652 - 8/11/71
Mod. #2-36 FR 20463 - 10/22/71
Mod. #3-37 FR 974 - 1/21/72
Mod. #4-37 FR 6613 - 3/31/72
(D) - See Bronx County

NEW YORK (Cont'd)

WYOMING COUNTY
None
YATES COUNTY
None

NORTH CAROLINA

STATEWIDE
Decision #AM-1847 (Hw)
36 FR 16474 - 8/20/71
Decision #AP-156 (Sewer & Water)
38 FR 4618 - 2/16/73
ALAMANCE COUNTY
(Hw) - See Statewide
ALEXANDER COUNTY
(Hw) - See Statewide
ALLEGHANY COUNTY
(Hw) - See Statewide
ANSON COUNTY
(Hw) - See Statewide
ASHE COUNTY
(Hw) - See Statewide
AVERY COUNTY
(Hw) - See Statewide
BEAUFORT COUNTY
Decision #AP-439 (D)
37 FR 22101 - 10/20/72
(Hw) - See Statewide
BERTIE COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
BLADEN COUNTY
(Hw) - See Statewide
BRUNSWICK COUNTY
(D) - See Beaufort County
BUNCOMBE COUNTY
(Hw) - See Statewide
BURKE COUNTY
(Hw) - See Statewide
CABARRUS COUNTY
(Hw) - See Statewide
CALDWELL COUNTY
(Hw) - See Statewide
CAMDEN COUNTY
(Hw) - See Statewide
CARTERET COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
CASWELL COUNTY
(Hw) - See Statewide
CATAWBA COUNTY
(Hw) - See Statewide
CHATHAM COUNTY
(Hw) - See Statewide

NORTH CAROLINA (Cont'd)

CHEROKEE COUNTY
(Hw) - See Statewide
CHOWAN COUNTY
(D) - See Beaufort County
(Hw)-See Statewide
CLAY COUNTY
(Hw) - See Beaufort County
CLEVELAND COUNTY
(Hw) - See Statewide
COLUMBUS COUNTY
(Hw) - See Statewide
CRAVEN COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
CUMBERLAND COUNTY
(Hw) - See Statewide
CURRITUCK COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
DARE COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
DAVIDSON COUNTY
(Hw) - See Statewide
DAVIE COUNTY
(Hw) - See Statewide
DUPLIN COUNTY
(Hw) - See Statewide
DURHAM COUNTY
(Hw) - See Statewide
EDGECOMBE COUNTY
(Hw) - See Statewide
FORSYTH COUNTY
(Hw) - See Statewide
FRANKLIN COUNTY
(Hw) - See Statewide
GASTON COUNTY
(Hw) - See Statewide
GATES COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
GRAHAM COUNTY
(Hw) - See Statewide
GRANVILLE COUNTY
(Hw) - See Statewide
GREENE COUNTY
(Hw) - See Statewide
GUILFORD COUNTY
(Hw) - See Statewide

NORTH CAROLINA (Cont'd)

HALIFAX COUNTY
(Hw) - See Statewide
HARNETT COUNTY
(Hw) - See Statewide
HAYWOOD COUNTY
(Hw) - See Statewide
HENDERSON COUNTY
(Hw) - See Statewide
HERTFORD COUNTY
(D) - See Beaufort County
(Hw) - See Statewide County
HOKE COUNTY
(Hw) - See Statewide
HYDE COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
IREDELL COUNTY
(Hw) - See Statewide
JACKSON COUNTY
(Hw) - See Statewide
JOHNSTON COUNTY
(Hw) - See Statewide
JONES COUNTY
(Hw) - See Statewide
LEE COUNTY
(Hw) - See Statewide
LENOIR COUNTY
(Hw) - See Statewide
LINCOLN COUNTY
(Hw) - See Statewide
McDOWELL COUNTY
(Hw) - See Statewide
MACON COUNTY
(Hw) - See Statewide
MADISON COUNTY
(Hw) - See Statewide
MARTIN COUNTY
(Hw) - See Statewide
MECKLENBURG COUNTY
Decision #AP-161(B)
38 FR 5753 - 3/2/73
(Hw) - See Statewide
MITCHELL COUNTY
(Hw) - See Statewide
MONTGOMERY COUNTY
(Hw) - See Statewide
MOORE COUNTY
(Hw) - See Statewide
NASH COUNTY
(Hw) - See Statewide

NORTH CAROLINA (Cont'd)

NEW HANOVER COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
NORTHAMPTON COUNTY
(Hw) - See Statewide
ONSLOW COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
ORANGE COUNTY
(Hw) - See Statewide
PAMLICO COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
PASQUOTANK COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
PENDER COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
PERQUIMANS COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
PERSON COUNTY
(Hw) - See Statewide
PITT COUNTY
(Hw) - See Statewide
POLK COUNTY
(Hw) - See Statewide
RANDOLPH COUNTY
(Hw) - See Statewide
RICHMOND COUNTY
(Hw) - See Statewide
ROBESON COUNTY
(Hw) - See Statewide
ROCKINGHAM COUNTY
(Hw) - See Statewide
ROWAN COUNTY
(Hw) - See Statewide
RUTHERFORD COUNTY
(Hw) - See Statewide
SAMPSON COUNTY
(Hw) - See Statewide
SCOTLAND COUNTY
(Hw) - See Statewide
STANLY COUNTY
(Hw) - See Statewide

NORTH CAROLINA (Cont'd)

STOKES COUNTY
(Hw) - See Statewide
SURRY COUNTY
(Hw) - See Statewide
SWAIN COUNTY
(Hw) - See Statewide
TRANSYLVANIA COUNTY
(Hw) - See Statewide
TYRRELL COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
UNION COUNTY
(Hw) - See Statewide
VANCE COUNTY
(Hw) - See Statewide
WAKE COUNTY
(Hw) - See Statewide
WARREN COUNTY
(Hw) - See Statewide
WASHINGTON COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
WATAUGA COUNTY
(Hw) - See Statewide
WAYNE COUNTY
(Hw) - See Statewide
WILKS COUNTY
(Hw) - See Statewide
WILSON COUNTY
(Hw) - See Statewide
YADKIN COUNTY
(Hw) - See Statewide
YANCEY COUNTY
(Hw) - See Statewide

NORTH DAKOTA

STATEWIDE
Decision #AM-2,509 (Hw)
36 FR 17133 - 8/27/71
Mod. #1-37 FR 974 - 1/21/72
Mod. #2-37 FR 3662 - 2/18/72
Mod. #3-37 FR 21703 - 10/13/72
ADAMS COUNTY
(Hw) - See Statewide

NORTH DAKOTA (Cont'd)

BARNES COUNTY
(Hw) - See Statewide
BENSON COUNTY
(Hw) - See Statewide
BILLINGS COUNTY
(Hw) - See Statewide
BOTTINEAU COUNTY
(Hw) - See Statewide
BOWMAN COUNTY
(Hw) - See Statewide
BURKE COUNTY
(Hw) - See Statewide
BURLEIGH COUNTY
(Hw) - See Statewide
Decision #AM-2,510 (B)
36 FR 17119 - 8/27/71
Mod. #1-37 FR 974 - 1/21/72
Mod. #2-37 FR 4022-2/25/72
Mod. #3-37 FR 12017 - 6/16/72
Mod. #4-37 FR 21704 - 10/13/72
CASS COUNTY
(Hw) - See Statewide
Decision #AM-2,511 (B)
36 FR 17122 - 8/27/71
Mod. #1-37 FR 974 - 1/21/72
Mod. #2-37 FR 4023 - 2/25/72
Mod. #3-37 FR 21706 - 10/13/72
CAVALIER COUNTY
(Hw) - See Statewide
DICKEY COUNTY
(Hw) - See Statewide
DIVIDE COUNTY
(Hw) - See Statewide
DUNN COUNTY
(Hw) - See Statewide
EDDY COUNTY
(Hw) - See Statewide
EMMONS COUNTY
(Hw) - See Statewide
FOSTER COUNTY
(Hw) - See Statewide
GOLDEN VALLEY COUNTY
(Hw) - See Statewide

NORTH DAKOTA (Cont'd)

GRAND FORKS COUNTY
(Hw) - See Statewide
Decision #AM-2,512 (B)
36 FR 17125 - 8/27/71
Mod. #1-37 FR 974 - 1/21/72
Mod. #2-37 FR 4024 - 2/25/72
Mod. #3-37 FR 21708 - 10/13/72
GRANT COUNTY
(Hw) - See Statewide
GRIGGS COUNTY
(Hw) - See Statewide
HETTINGER COUNTY
(Hw) - See Statewide
KIDDER COUNTY
(Hw) - See Statewide
LAMOURE COUNTY
(Hw) - See Statewide
LOGAN COUNTY
(Hw) - See Statewide
McHENRY COUNTY
(Hw) - See Statewide
McINTOSH COUNTY
(Hw) - See Statewide
McKENZIE COUNTY
(Hw) - See Statewide
McLEAN COUNTY
(Hw) - See Statewide
MERCER COUNTY
(Hw) - See Statewide
MORTON COUNTY
(Hw) - See Statewide
(B) - See Burleigh County
MOUNTRAIL COUNTY
(Hw) - See Statewide
NELSON COUNTY
(Hw) - See Statewide
OLIVER COUNTY
(Hw) - See Statewide
PEMBINA COUNTY
(Hw) - See Statewide
PIERCE COUNTY
(Hw) - See Statewide
RAMSEY COUNTY
(Hw) - See Statewide

NORTH DAKOTA (Cont'd)

RANSOM COUNTY
(Hw) - See Statewide
RENVILLE COUNTY
(Hw) - See Statewide
RICHLAND COUNTY
(Hw) - See Statewide
(B) - See Cass County
ROLETTE COUNTY
(Hw) - See Statewide
SARGENT COUNTY
(Hw) - See Statewide
SHERIDAN COUNTY
(Hw) - See Statewide
SIOUX COUNTY
(Hw) - See Statewide
SLOPE COUNTY
(Hw) - See Statewide
STARK COUNTY
(Hw) - See Statewide
STEELE COUNTY
(Hw) - See Statewide
(B) - See Grand Forks County
STUTSMAN COUNTY
(Hw) - See Statewide
TOWNER COUNTY
(Hw) - See Statewide
TRAILL COUNTY
(Hw) - See Statewide
WALSH COUNTY
(Hw) - See Statewide
(B) - See Grand Forks County
WARD COUNTY
(Hw) - See Statewide
Decision #AM-2,513 (B)
36 FR 17129 8/27/71
Mod. #1-37 FR 975 - 1/21/72
Mod. #2-37 FR 4025 - 2/25/72
Mod. #3-37 FR 8619 - 4/28/72
Mod. #4-27 FR 21710 - 10/13/72
WELLS COUNTY
(Hw) - See Statewide
WILLIAMS COUNTY
(Hw) - See Statewide

OHIO

ADAMS COUNTY
Decision #AP-602 (D)
38 FR 1433-1/12/73
ALLEN COUNTY
None
ASHLAND COUNTY
None

OHIO (Cont'd)

ASHTABULA COUNTY
Decision #AP-4 (D)
37 FR 14670 - 7/21/72
ATHENS COUNTY
(D)-See Adams County
AUGLAIZE COUNTY
None
BELMONT COUNTY
None
BROWN COUNTY
(D)-See Adams County
BUTLER COUNTY
Decision #AP-34 (B)(H)(Hw)
37 FR 24563 - 11/17/72
Mod. #1-37 FR 28354-12/22/72
Mod. #2-38 FR 936-1/5/73
Mod. #3-38 FR 5097 - 2/23/73
Decision #AM-418 (R)
36 FR 15961 - 8/18/71
CARROLL COUNTY
None
CHAMPAIGN COUNTY
None
CLARK COUNTY
Decision #AP-35 (B)(H)(Hw)
37 FR 24568 - 11/17/72
Mod. #1-37 FR 28354-12/22/72
Mod. #2-38 FR 936-1/5/73
Mod. #3-38 FR 5097 - 2/23/73
Decision #AM-419 (R)
36 FR 15962 - 8/18/71
CLERMONT COUNTY
Decision #AM-421 (R)
36 FR 15964 - 8/18/71
(D)-See Adams County
CLINTON COUNTY
None
COLUMBIANA COUNTY
None
COSHOCTON COUNTY
None
CRAWFORD COUNTY
None
CUYAHOGA COUNTY
Decision #AP-36 (B)(H)(Hw)
37 FR 24572 - 11/17/72
Mod. #1-37 FR 28354-12/22/72
Mod. #2-38 FR 936-1/5/73
Decision #AP-48 (R)
37 FR 24503 - 11/17/72
Mod. #1-38 FR 3252-2/2/73
(D) - See Ashtabula County

OHIO (Cont'd)

DARKE COUNTY
None
DEFIANCE COUNTY
None
DELAWARE COUNTY
Decision #AM-420 (R)
36 FR 15963 - 8/18/71
Mod. #1 - 38 FR 4630 - 2/16/73
ERIE COUNTY
(D) - See Ashtabula County
FAIRFIELD COUNTY
(R) - See Delaware County
FAYETTE COUNTY
None
FRANKLIN COUNTY
Decision #AP-37 (B)(H)(Hw)
37 FR 24576 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28354-12/22/72
Mod. #3-38 FR 937-1/5/73
Mod. #4-38 FR 3252-2/2/73
Mod. #5-38 FR 5097 - 2/23/73
(R) - See Delaware County
FULTON COUNTY
None
GALLIA COUNTY
(D)-See Adams County
GEAUGA COUNTY
None
GREENE COUNTY
Decision #AP-38 (B)(H)(Hw)
37 FR 24580 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28354-12/22/72
Mod. #3-38 FR 937-1/5/73
Mod. #4-38 FR 3252-2/2/73
Mod. #5-38 FR 5097 - 2/23/73
Decision #AM-422 (R)
36 FR 15965 - 8/18/71
Mod. #1-37 FR 8619 - 4/28/72
GUERNSEY COUNTY
None
HAMILTON COUNTY
Decision #AP-39 (B)(H)(Hw)
37 FR 24585 - 11/17/72
Mod. #1-38 FR 937-1/5/73
Mod. #2-38 FR 3252-2/2/73
Mod. #3-38 FR 5098-2/23/73
(D)-See Adams County
(R) - See Clermont County
HANCOCK COUNTY
None
HARDIN COUNTY
None
HARRISON COUNTY
None
HENRY COUNTY

OHIO (Cont'd)

HIGHLAND COUNTY
None
HOCKING COUNTY
None
HOLMES COUNTY
None
HURON COUNTY
None
JACKSON COUNTY
None
JEFFERSON COUNTY
None
KNOX COUNTY
None
LAKE COUNTY
(D) - See Ashtabula County
LAWRENCE COUNTY
(D)-See Adams County
LICKING COUNTY
Decision #AP-40 (B)(H)(Hw)
37 FR 24590 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28355-12/22/72
Mod. #3-38 FR 937-1/5/73
Mod. #4-38 FR 5098 - 2/23/73
(R) - See Delaware County
LOGAN COUNTY
None
LORAIN COUNTY
(D) - See Ashtabula County
LUCAS COUNTY
Decision #AP-41 (B)(H)(Hw)
37 FR 24594 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28355-12/22/72
Mod. #3-38 FR 937-1/5/73
Mod. #4-38 FR 5098 - 2/23/73
(D) - See Ashtabula County
MADISON COUNTY
(R) - See Delaware County
MAHONING COUNTY
Decision #AP-42 (B)(H)(Hw)
37 FR 24599 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28355-12/22/72
Mod. #3-38 FR 937-1/5/73
Mod. #4-38 FR 3252-2/2/73
Mod. #5-38 FR 5098 - 2/23/73
MARION COUNTY
None
MEDINA COUNTY
None
MEIGS COUNTY
(D)-See Adams County
MERCER COUNTY
None

OHIO (Cont'd)

MIAMI COUNTY
(R) - See Greene County
MONROE COUNTY
(D)-See Adams County
MONTGOMERY COUNTY
(B)(H)(Hw) - See Greene County
(R) - See Greene County
MORGAN COUNTY
None
MORROW COUNTY
None
MUSKINGUM COUNTY
Decision #AP-43 (B)(H)(Hw)
37 FR 24602 - 11/17/72
Mod. #1 - 37 FR 25622 - 12/1/72
Mod. #2-38 FR 938-1/5/73
Mod. #3 - 38 FR 5098 - 2/23/73
NOBLE COUNTY
None
OTTAWA COUNTY
(D) - See Ashtabula County
PAULDING COUNTY
None
PERRY COUNTY
None
PICKAWAY COUNTY
(B)(H)(Hw) - See Franklin County
(R) - See Delaware County
PIKE COUNTY
None
PORTAGE COUNTY
Decision #AP-44 (B)(H)(Hw)
37 FR 24608 - 11/17/72
Mod. #1-37 FR 28354-12/22/72
Mod. #2-38 FR 938-1/5/73
Mod. #3-38 FR 3252-2/2/73
PREBLE COUNTY
(R) - See Greene County
PUTNAM COUNTY
None
RICHLAND COUNTY
None
ROSS COUNTY
None
SANDUSKY COUNTY
(D) - See Ashtabula County
SCIOTO COUNTY
(D)-See Adams County
SENECA COUNTY
None

OHIO (Cont'd)

SHELBY COUNTY
None
STARKE COUNTY
Decision #AP-45 (B)(H)(Hw)
37 FR 24613 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-37 FR 28355-12/22/72
Mod. #3-38 FR 938-1/5/73
Mod. #4-38 FR 5098 - 2/23/73
SUMMITT COUNTY
Decision #AP-46 (B)(H)(Hw)
37 FR 24618 - 11/17/72
Mod. #1-37 FR 28355-12/22/72
Mod. #2-38 FR 938-1/5/73
TRUMBULL COUNTY
Decision #AP-47 (B)(H)(Hw)
37 FR 24623 - 11/17/72
Mod. #1-37 FR 25622 - 12/1/72
Mod. #2-38 FR 28355 - 12/22/72
Mod. #3-38 FR 3252-2/2/73
Mod. #4 - 38 FR 5099 - 2/23/73
TUSCARAWAS COUNTY
None
UNION COUNTY
None
VAN WERT COUNTY
None
VINTON COUNTY
None
WARREN COUNTY
(R) - See Butler County
WASHINGTON COUNTY
(D)-See Adams County
WAYNE COUNTY
None
WILLIAMS COUNTY
None
WOOD COUNTY
None
WYANDOT COUNTY
None

OKLAHOMA

ADAIR COUNTY
Decision #AM-3603 (Hw)
36 FR 16761 - 8/25/71
ALFALFA COUNTY
Decision #AM-3608 (Hw)
36 FR 16766 - 8/25/71
ATOKA COUNTY
Decision #AM-3605 (Hw)
36 FR 16763 - 8/25/71

OKLAHOMA (cont'd)

BEAVER COUNTY
(Hw)-See Alfalfa County
BECKHAM COUNTY
DECISION #AM-3606 (Hw)
36 FR 16764 - 8/25/71
BLAINE COUNTY
(Hw)-See Beckham County
BRYAN COUNTY
(Hw)-See Atoka County
Decision #AP-341 (R)
37 FR 19870 - 9/22/72
CADDO COUNTY
Decision #AM- 3609 (hw)
36 FR 16767 - 8/25/71
CANADIAN COUNTY
Decision #AM-3607 (Hw)
36 FR 16765 - 8/25/71
(R)-See Oklahoma County
CARTER COUNTY
(Hw)-See Caddo County
CHEROKEE COUNTY
(Hw)-See Adair County
CHOCTAW COUNTY
(hw)-See Atoka County
CIMARRON COUNTY
(Hw)-See Alfalfa County
CLEVELAND COUNTY
Decision #AM-3604 (hw)
36 FR 16762 - 8/25/71
(R)-See Oklahoma County
COAL COUNTY
(Hw)-See Cleveland County
COMANCHE COUNTY
(Hw)-See Caddo County
Decision #AP-309 (R)
37 FR 16715 - 8/18/72
COTTON COUNTY
(Hw)-See Caddo County
CRAIG COUNTY
Decision #AM-3610 (Hw)
36 FR 16768 - 8/25/72
CREEK COUNTY
(Hw)-See Canadian County
CUSTER COUNTY
(Hw)-See Beckham County
DELAWARE COUNTY
(Hw)-See Craig County

OKLAHOMA (cont'd)

DEWEY COUNTY
(Hw)-See Beckham County
ELLIS COUNTY
(Hw)-See Alfalfa County
GARFIELD COUNTY
(Hw)-See Canadian County
GARVIN COUNTY
(Hw)-See Cleveland County
GRADY COUNTY
(Hw)-See Caddo County
GRANT COUNTY
(Hw)-See Canadian County
GREER COUNTY
(Hw)-See Beckham County
HARMON COUNTY
(Hw)-See Beckham County
HARPER COUNTY
(Hw)-See Alfalfa County
HASKELL COUNTY
(Hw)-See Adair County
HUGHES COUNTY
(Hw)-See Cleveland County
JACKSON COUNTY
(Hw)-See Beckham County
JEFFERSON COUNTY
(Hw)-See Caddo County
JOHNSTON COUNTY
(Hw)-See Cleveland County
KAY COUNTY
(Hw)-See Canadian County
KINGFISHER COUNTY
(Hw)-See Canadian County
KIOWA COUNTY
(Hw)-See Beckham County
LATIMER COUNTY
(Hw)-See Atoka County
LEFLORE COUNTY
(Hw)-See Atoka County
LINCOLN COUNTY
(Hw)-See Canadian County)
(R)-See Oklahoma County
LOGAN COUNTY
(Hw)-See Canadian County
LOVE COUNTY
(hw)-See Caddo County
MCCLAIN COUNTY
(Hw)-See Cleveland County
MCCURTAIN COUNTY
(Hw)-See Atoka County

OKLAHOMA (cont'd)

MCINTOSH COUNTY
(Hw)-See Adair County
MAJOR COUNTY
(Hw)-See Alfalfa County
MARSHALL COUNTY
(Hw)-See Atoka County
MAYES COUNTY
(Hw)- See Craig County
MURRAY COUNTY
(Hw)-See Cleveland County
MUSKOGEE COUNTY
(hw)-See Adair County
NOBLE COUNTY
(hw)-See Canadian County
NOWATA COUNTY
(Hw)-See Craig County
OKFUSKEE COUNTY
(hw)-See Cleveland County
OKLAHOMA COUNTY
Decision #AP-702 (B)
38 FR 4173-2/9/73
Decision #AM-3612 (Hw)
36 FR 16770 - 8/25/71
Mod. #1 - 37 FR 1435 - 1/28/72
Mod. #2 - 38 FR 5099 - 2/23/73
Decision #AP-304 (R)
37 FR 15789 - 8/4/72
Mod. #1-37 FR 28799-12/29/72
Mod. #2-38 FR 4078-2/9/73
OKMULGEE COUNTY
(Hw)-See Adair County
OSAGE COUNTY
(Hw)-See Craif County
OTTAWA COUNTY
(Hw)- See Craig County
PAWNEE COUNTY
(Hw)-See Craig County
PAYNE COUNTY
(Hw)-See Canadian County
PITTSBURG COUNTY
(Hw)-See Adair County
PONTOTOC COUNTY
(Hw)-See Cleveland County
POTTAWATOMIE COUNTY
(Hw)- See Cleveland County
(R)-See Oklahoma County
PUSHMATAHA COUNTY
(Hw)-See Atoka County
ROGER MILLS COUNTY
(Hw)-See Beckham County
ROGERS COUNTY
(Hw)-See Craig County

OKLAHOMA (Cont'd)

SEMINOLE COUNTY
(Hw) - See Cleveland County
SEQUOYAH COUNTY
(Hw) - See Adair County
STEPHENS COUNTY
(Hw) - See Caddo County
TEXAS COUNTY
(Hw) - See Alfalfa County
TILLMAN COUNTY
(Hw) - See Beckham County
TULSA COUNTY
Decision #AP-364 (B)
37 FR 26249 - 12/8/72
Mod. #1-37 FR 28356-12/22/72
Mod. #2-38 FR 2010-1/19/73
Decision #AM-3611 (Hw)
36 FR 16769 - 8/25/71
Mod. #1-37 FR 1435 - 1/28/72
Decision #AP-320 (R)
37 FR 17899 - 9/1/72
Mod. #1 - 38 FR 5099 - 2/23/73
WAGONER COUNTY
(Hw) - See Adair County
WASHINGTON COUNTY
(Hw) - See Craig County
WASHITA COUNTY
(Hw) - See Beckham County
WOODS COUNTY
(Hw) - See Alfalfa County
WOODWARD COUNTY
(Hw) - See Alfalfa County

OREGON

STATEWIDE
Decision #AP-249 (B,H,Hw,D)
37 FR 23998 - 11/10/72
Mod. #1-37 FR 25112 - 11/25/72
Mod. #2-38 FR 5759 - 3/2/73
BAKER COUNTY
(B,H,Hw,D) - See Statewide
BENTON COUNTY
(B,H,Hw,D) - See Statewide
CLACKAMAS COUNTY
(B,H,Hw,D) - See Statewide
COLUMBIA COUNTY
(B,H,Hw,D) - See Statewide
COOS COUNTY
(B,H,Hw,D) - See Statewide
CROOK COUNTY
(B,H,Hw,D) - See Statewide
CURRY COUNTY
(B,H,Hw,D) - See Statewide

OREGON (Cont'd)

DESCHUTES COUNTY
(B-H-Hw-D) - See Statewide
DOUGLAS COUNTY
(B-H-Hw-D) - See Statewide
GILLIAM COUNTY
(B-H-Hw-D) - See Statewide
GRANT COUNTY
(B-H-Hw-D) - See Statewide
HARNEY COUNTY
(B-H-Hw-D) - See Statewide
HOOD COUNTY
(B-H-Hw-D) - See Statewide
JACKSON COUNTY
(B-H-Hw-D) - See Statewide
JEFFERSON COUNTY
(B-H-Hw-D) - See Statewide
JOSEPHINE COUNTY
(B-H-Hw-D) - See Statewide
KLAMATH COUNTY
(B-H-Hw-D) - See Statewide
LAKE COUNTY
(B-H-Hw-D) - See Statewide
LANE COUNTY
(B-H-Hw-D) - See Statewide
LINCOLN COUNTY
(B-H-Hw-D) - See Statewide
LINN COUNTY
(B-H-Hw-D) - See Statewide
MALHEUR COUNTY
(B-H-Hw-D) - See Statewide
MARION COUNTY
(B-H-Hw-D) - See Statewide
MORROW COUNTY
(B-H-Hw-D) - See Statewide
MULTNOMAH COUNTY
(B-H-Hw-D) - See Statewide
POLK COUNTY
(B-H-Hw-D) - See Statewide
SHERMAN COUNTY
(B-H-Hw-D) - See Statewide
TILLAMOOK COUNTY
(B-H-Hw-D) - See Statewide
UMATILLA COUNTY
(B-H-Hw-D) - See Statewide
UNION COUNTY
(B-H-Hw-D) - See Statewide

OREGON (Cont'd)

WALLOWA COUNTY
(B-H-Hw-D) - See Statewide
WASCO COUNTY
(B-H-Hw-D) - See Statewide
WASHINGTON COUNTY
(B-H-Hw-D) - See Statewide
WHEELER COUNTY
(B-H-Hw-D) - See Statewide
YAMHILL COUNTY
(B-H-Hw-D) - See Statewide

PENNSYLVANIA

ADAMS COUNTY
Decision #AM-1,866 (Hw)
36 FR 16335 - 8/20/72
Mod. #1-37 FR 980 - 1/21/72
Mod. #2-37 FR 7450 - 4/14/72
Mod. #3-37 FR 7922 - 4/21/72
Mod. #4-37 FR 8621-4/28/72
Mod. #5-38 FR 1437-1/12/73
Mod. #6-38 FR 2010-1/19/73
ALLEGHENY COUNTY
Decision #AP-421 (B,H,Hw)
37 FR 20447 - 9/29/72
Mod. #1-37 FR 21712 - 10/13/72
Mod. #2-37 FR 23065 - 10/27/72
Mod. #3-37 FR 24511 - 11/17/72
Mod. #4-37 FR 25114 - 11/25/72
Mod. #5-38 FR 5099 - 2/23/73
Mod. #6-38 FR 5760 - 3/2/73
ARMSTRONG COUNTY
Decision #AP-454 (H,Hw)
38 FR 943-1/5/73
Mod. #1-38 FR 2570-1/26/73
BEAVER COUNTY
Decision #AP-467 (Hw)
38 FR 2618-1/26/73
BEDFORD COUNTY
Decision #AP-465 (H,Hw)
38 FR 2612-1/26/73
Mod. #1 - 38 FR 5760 - 3/2/73
BERKS COUNTY
Decision #AP-429 (B,H,Hw)
37 FR 21255-10/6/72
Mod. #1-38 FR 1436-1/12/73
Mod. #2-38 FR 2012-1/19/73
Mod. #3-38 FR 4079-2/9/73
Mod. #4-38 FR 5101 - 2/23/73

PENNSYLVANIA (Cont'd)

BLAIR COUNTY
(H,Hw)-See Armstrong County
BRADFORD COUNTY
(Hw)-See Adams County
BUCKS COUNTY
Decision #AP-404 (R)
37 FR 15229-7/28/72
Mod. #1 - 38 FR 2012 - 1/19/73
Mod. #2 - 38 FR 4630 - 2/16/73
BUTLER COUNTY
Decision #AP-464 (H,Hw)
38 FR 2609-1/26/73
Mod. #1 - 38 FR 5760 - 3/2/73
CAMBRIA COUNTY
(Hw)-See Butler County
CAMERON COUNTY
(Hw)-See Bedford County
CARBON COUNTY
(Hw)-See Adams County
CENTRE COUNTY
Decision #AP-466 (H,Hw)
38 FR 2615-1/26/73
CHESTER COUNTY
(Hw,R)-See Bucks County
CLARION COUNTY
(H,Hw)-See Bedford County
CLEARFIELD COUNTY
(H,Hw)-See Centre County
CLINTON COUNTY
(H,Hw)-See Bedford County
COLUMBIA COUNTY
(Hw)- See Adams County
CRAWFORD COUNTY
(H * Hw)-See Armstrong County
CUMBERLAND COUNTY
Decision #AP-424 (B, H, Hw)
37 FR 20460 - 9/29/72
Mod. #1 - 37 FR 25626 - 12/1/72
Mod. #2-38 FR 1438-1/12/73
Mod. #3-38 FR 2012-1/19/73
Mod. #4-38 FR 4079-2/9/73
(Hw)-See Adams County

PENNSYLVANIA (cont'd)

DAUPHIN COUNTY
Decision #AP-423 (B, H, Hw)
37 FR 20458 - 9/29/72
Mod. #1 - 37 FR 25626 - 12/1/72
Mod. #2-38 FR 1438-1/12/73
Mod. #3-38 FR 2012-1/19/73
Mod. #4-38 FR 4079-2/9/73
(Hw)-See Adams County
DELAWARE COUNTY
Decision #AP-408 (B, H, Hw)
37 FR 15275 - 7/28/72
Mod. #1 - 37 FR 17319 - 8/25/72
Mod. #2 - 37 FR 22707 - 10/20/72
Mod. #3-38 FR 2012-1/19/73
Mod. #4 - 38 FR 4630 - 2/16/73
(R)(Hw)-See Bucks County
ELK COUNTY
(H & Hw)-See Bedford County
ERIE COUNTY
Decision #AP-422 (B, H, Hw)
37 FR 20454 - 9/29/72
Mod. #1 - 38 FR 5101 - 2/23/73
FAYETTE COUNTY
(Hw)-See Butler County
FOREST COUNTY
(Hw)-See Bedford County
FRANKLIN COUNTY
Decision #AP-480 (B)
38 FR 5771 - 3/2/73
FULTON COUNTY
(Hw)-See Bedford County
GREENE COUNTY
(Hw)-See Centre County
HUNTINGDON COUNTY
(Hw)-See Bedford County
INDIANA COUNTY
(Hw)-See Armstrong County
JEFFERSON COUNTY
(Hw) - See Centre County
JUNIATA COUNTY
(Hw) - See Adams County
LACKAWANNA COUNTY
Decision #AP-462 (B)
38 FR 2605-1/26/73

PENNSYLVANIA (cont'd)

LANCASTER COUNTY
(Hw) - See Adams County
LAWRENCE COUNTY
Decision #AP-425 (B,H,Hw)
37 FR 20464 - 9/29/72
Mod. #1-37 FR 25114 - 11/25/72
Mod. #2-38 FR 5101 - 2/23/73
Mod. #3 - 38 FR 5760 - 3/2/73
LEBANON COUNTY
(Hw) - See Adams County
LEHIGH COUNTY
Decision #AP-430 (B,H,Hw)
37 FR 21259 - 10/6/72
Mod. #1-38 FR 1436-1/12/73
Mod. #2-38 FR 2012-1/19/73
Mod. #3-38 FR 4079-2/9/73
LUZERNE COUNTY
Decision #AM-1,858 (B,H,Hw)
36 FR 16294 - 8/30/71
Mod. #1-37 FR 3117 - 2/11/72
Mod. #2-37 FR 7449 - 4/14/72
Mod. #3-37 FR 8621 - 4/28/72
Mod. #4-37 FR 10279 - 5/19/72
Mod. #5-37 FR 16730 - 8/18/72
Mod. #6-37 FR 18834 - 9/14/72
Mod. #7-38 FR 1436-1/12/73
Mod. #8-38 FR 2011-1/19/73
LYCOMING COUNTY
(Hw) - See Adams County
McKEAN COUNTY
(Hw) - See Adams County
MERCER COUNTY
Decision #AP-479 (B)
38 FR 5765 - 3/2/73
MIFFLIN COUNTY
(Hw) - See Adams County
MONROE COUNTY
(Hw)-See Adams County

PENNSYLVANIA (Cont'd)

MONTGOMERY COUNTY
Decision #AM-9,681 (B,H,Hw)
37 FR 4030 - 2/25/72
Mod. #1-37 FR 10284 - 5/19/72
Mod. #2-37 FR 11623 - 6/9/72
Mod. #3-37 FR 12020 - 6/16/72
Mod. #4-37 FR 15238 - 7/28/72
Mod. #5-37 FR 17318 - 8/25/72
Mod. #6-37 FR 18273 - 9/8/72
Mod. #7-37 FR 22707 - 10/20/72
Mod. #8-38 FR 2012-1/19/73
Mod. #9-38 FR 4630 - 2/16/73
MONTOUR COUNTY
(Hw) - See Adams County
NORTHAMPTON COUNTY
Decision #AP-463 (B)
38 FR 2607-1/26/73
NORTHUMBERLAND COUNTY
(Hw) - See Adams County
PERRY COUNTY
(Hw) - See Adams County
PHILADELPHIA COUNTY
Decision #AM-9,323 (B,H,Hw)
37 FR 12023 - 6/16/72
Mod. #1-37 FR 15238 - 7/28/72
Mod. #2-37 FR 17318 - 8/25/72
Mod. #3-37 FR 22707 - 10/20/72
Mod. #4-38 FR 2011-1/19/73
Mod. #5-38 FR 4630 - 2/16/73
(D)-See Statewide
PIKE COUNTY
(Hw) - See Adams County

PENNSYLVANIA (Cont'd)

POTTER COUNTY
(H & Hw) - See Bedford County
SCHUYLKILL COUNTY
(Hw) - See Adams County
SNYDER COUNTY
(Hw) - See Adams County
SOMERSET COUNTY
(H & Hw) - See Butler County
SULLIVAN COUNTY
(Hw) - See Adams County
SUSQUEHANNA COUNTY
(Hw) - See Adams County
TIOGA COUNTY
(Hw) - See Adams County
UNION COUNTY
(Hw) - See Adams County
VENANGO COUNTY
(Hw) - See Armstrong County
WARREN COUNTY
(Hw) - See Armstrong County
WASHINGTON COUNTY
Decision #AM-1,863 (B,H,Hw)
36 FR 16319 - 8/20/71
Mod. #1-37 FR 1436 - 1/28/72
Mod. #2-37 FR 13933 - 7/14/72
Mod. #3-37 FR 16285 - 8/11/72
Mod. #4-37 FR 19892 - 9/22/72
Mod. #5-37 FR 23065 - 10/27/72
WAYNE COUNTY
(Hw)-See Adams County
WESTMORELAND COUNTY
Decision #AM-1864 (B, H, Hw)
36 FR 16326 - 8/20/71
Mod. #1-37 FR 1336 - 1/28/72
Mod. #2- 37 FR 13935 - 7/14/72
Mod. #3-37 FR 16286 - 8/11/72
Mod. #4-37 FR 18834 - 9/15/72
Mod. #5-37 FR 19893 - 9/22/72
Mod. #6-37 FR 23065 - 10/27/72
Mod. #7-37 FR 24511 - 11/17/72
Mod. #8-37 FR 25117 - 11/25/72
WYOMING COUNTY
(Hw)-See Adams County
YORK COUNTY
(Hw)-See Adams County

PUERTO RICO

PUERTO RICO
Decision #AP-412 (B, H, Hw)
37 FR 16778 - 8/18/72

RHODE ISLAND

STATEWIDE
Decision #AM-9322 (D)
37 FR 10693 - 5/26/72
Mod. #1 - 37 FR 19871 - 9/22/72
BRISTOL COUNTY
Decision #AP-426 (B, H, Hw, Marine)
37 FR 20471 - 9/29/72
Mod. #1 - 37 FR 21713 - 10/13/72
(D)-See Statewide
KENT COUNTY
(B, H, Hw, Marine)- See Bristol Cty.
(D)-See Statewide
NEWPORT COUNTY
Decision #AP-428 (B, H, Hw, Marine)
37 FR 20480 - 9/29/72
Mod. #1 - 37 FR 21713 - 10/13/72
(D)-See Statewide
PROVIDENCE COUNTY
(B, H, Hw, Marine)-See Bristol Cty.
(D)-See Statewide
WASHINGTON COUNTY
Decision #AP-427 (B, H, Hw, Marine)
37 FR 20476 - 9/27/72
Mod. #1 - 37 FR 21713 - 10/13/72
(D)-See Statewide

SOUTH CAROLINA

STATEWIDE
Decision #AM-1867 (Hw)
36 FR 16475 - 8/20/71
Decision #AP-157 (Sewer & Water)
38 FR 4619 - 2/16/73
ABBEVILLE COUNTY
(Hw)-See Statewide
AIKEN COUNTY
(Hw)-See Statewide
ALLENDALE COUNTY
(Hw)-See Statewide
ANDERSON COUNTY
(Hw)-See Statewide

SOUTH CAROLINA (cont'd)

BAMBERG COUNTY
(Hw)-See Statewide
BARNWELL COUNTY
(Hw)-See Statewide
BEAUFORT COUNTY
Decision #AP-459 (D)
37 FR 22701 - 10/20/72
(Hw)-See Statewide
BERKELEY COUNTY
(D)-See Beaufort County
(Hw)-See Statewide
Decision #AP-114 (R)
37 FR 15794 - 8/4/72
CALHOUN COUNTY
(Hw)-See Statewide
CHARLESTON COUNTY
(D)-See Beaufort County
(Hw)-See Statewide
(R)-See Berkeley County
CHEROKEE COUNTY
(Hw)-See Statewide
CHESTER COUNTY
(Hw)-See Statewide
CHESTERFIELD COUNTY
(Hw)-See Statewide
CLARENDON COUNTY
(Hw)-See Statewide
COLLETON COUNTY
(D)-See Beaufort County
(Hw)-See Statewide
DARLINGTON COUNTY
(Hw)-See Statewide
DILLON COUNTY
(Hw)-See Statewide
DORCHESTER COUNTY
(Hw)-See Statewide
EDGEFIELD COUNTY
(Hw)-See Statewide
FAIRFIELD COUNTY
(Hw)-See Statewide
FLORENCE COUNTY
(Hw)-See Statewide
GEORGETOWN COUNTY
(D)-See Beaufort County
(Hw)-See Statewide
GREENVILLE COUNTY
(Hw)-See Statewide

SOUTH CAROLINA (Cont'd)

GREENWOOD COUNTY
(Hw)-See Statewide
HAMPTON COUNTY
(Hw)-See Statewide
HORRY COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
JASPER COUNTY
(D) - See Beaufort County
(Hw) - See Statewide
KERSHAW COUNTY
(Hw) - See Statewide
LANCASTER COUNTY
(Hw) - See Statewide
LAURENS COUNTY
(Hw) - See Statewide
LEE COUNTY
(Hw) - See Statewide
LEXINGTON COUNTY
(Hw) - See Statewide
McCORMICK COUNTY
(Hw) - See Statewide
MARION COUNTY
(Hw) - See Statewide
MARLBORO COUNTY
(Hw) - See Statewide
NEWBERRY COUNTY
(Hw) - See Statewide
OCONEE COUNTY
(Hw) - See Statewide
ORANGEBURG COUNTY
(Hw) - See Statewide
PICKENS COUNTY
(Hw) - See Statewide
RICHLAND COUNTY
(Hw) - See Statewide
SALUDA COUNTY
(Hw) - See Statewide
SPARTANBURG COUNTY
(Hw) - See Statewide
SUMTER COUNTY
(Hw) - See Statewide
UNION COUNTY
(Hw) - See Statewide
WILLIAMSBURG COUNTY
(Hw) - See Statewide
YORK COUNTY
(Hw) - See Statewide

SOUTH DAKOTA

STATEWIDE
Decision #AM-6,719 (Hw)
37 FR 7463 - 4/14/72
AURORA COUNTY
(Hw) - See Statewide
BEADLE COUNTY
(Hw) - See Statewide
BENNETT COUNTY
(Hw) - See Statewide
BON HOMME COUNTY
(Hw) - See Statewide
BROOKINGS COUNTY
(Hw) - See Statewide
BROWN COUNTY
(Hw) - See Statewide
BRULE COUNTY
(Hw) - See Statewide
BUFFALO COUNTY
(Hw) - See Statewide
BUTTE COUNTY
(Hw) - See Statewide
CAMPBELL COUNTY
(Hw) - See Statewide
CHARLES COUNTY
(Hw) - See Statewide
CLARK COUNTY
(Hw) - See Statewide
CODLNGTON COUNTY
(Hw) - See Statewide
CORSON COUNTY
(Hw) - See Statewide
CUSTER COUNTY
(Hw) - See Statewide
DAVISON COUNTY
(Hw) - See Statewide
DAY COUNTY
(Hw) - See Statewide
DEUEL COUNTY
(Hw) - See Statewide
DEWEY COUNTY
(Hw) - See Statewide
DOUGLAS COUNTY
(Hw) - See Statewide

SOUTH DAKOTA (Cont'd)

EDMUNDS COUNTY
(Hw) - See Statewide
FALL RIVER COUNTY
(Hw) - See Statewide
FAULK COUNTY
(Hw) - See Statewide
GRANT COUNTY
(Hw) - See Statewide
GREGORY COUNTY
(Hw) - See Statewide
HAAKON COUNTY
(Hw) - See Statewide
HAMLIN COUNTY
(Hw) - See Statewide
HAND COUNTY
(Hw) - See Statewide
HANSON COUNTY
(Hw) - See Statewide
HARDING COUNTY
(Hw) - See Statewide
HUGHES COUNTY
(Hw) - See Statewide
HUTCHINSON COUNTY
(Hw) - See Statewide
HYDE COUNTY
(Hw) - See Statewide
JACKSON COUNTY
(Hw) - See Statewide
JERAULD COUNTY
(Hw) - See Statewide
JONES COUNTY
(Hw) - See Statewide
KINGSBURY COUNTY
(Hw) - See Statewide
LAKE COUNTY
(Hw) - See Statewide
LAWRENCE COUNTY
(Hw) - See Statewide
LINCOLN COUNTY
(Hw) - See Statewide
LYMAN COUNTY
(Hw) - See Statewide
MC COOK COUNTY
(Hw) - See Statewide

SOUTH DAKOTA (Cont'd)

MC PHERSON COUNTY
(Hw) - See Statewide
MARSHALL COUNTY
(Hw) - See Statewide
MEADE COUNTY
Decision #AP-262 (B)
38 FR 4641 - 2/16/73
MELLETTE COUNTY
(Hw) - See Statewide
MINER COUNTY
(Hw) - See Statewide
MINNEHAHA COUNTY
Decision #AM-6141 (R)
36 FR 21736 - 11/12/71
Decision #AP-253 (B)
37 FR 25147 - 11/25/72
(Hw) - See Statewide
MOODY COUNTY
(Hw) - See Statewide
PENNINGTON COUNTY
(B) - See Meade County
(Hw) - See Statewide
PERKINS COUNTY
(Hw) - See Statewide
POTTER COUNTY
(Hw) - See Statewide
ROBERTS COUNTY
(Hw) - See Statewide
SANBORN COUNTY
(Hw) - See Statewide
SHANNON COUNTY
(Hw) - See Statewide
SPINK COUNTY
(Hw) - See Statewide
STANLEY COUNTY
(Hw) - See Statewide
SULLY COUNTY
(Hw) - See Statewide
TODD COUNTY
(Hw) - See Statewide
TRIPP COUNTY
(Hw) - See Statewide

SOUTH DAKOTA (Cont'd)

TURNER COUNTY
(Hw) - See Statewide
UNION COUNTY
(Hw) - See Statewide
WALWORTH COUNTY
(Hw) - See Statewide
WASHABOUGH COUNTY
(Hw) - See Statewide
YANKTON COUNTY
(Hw) - See Statewide
ZIEBACH COUNTY
(Hw) - See Statewide

TENNESSEE

STATEWIDE
Decision #AM-8588 (F)
37 FR 5654 - 3/17/72
Mod. #1-37 FR 8601 - 4/28/72
Mod. #2-37 FR 24506 - 11/17/72
Decision #AM-504 (Hw)
36 FR 16493 - 8/20/71
Mod. #1-37 FR 246 - 1/7/72
Mod. #2-38 FR 939-1/5/73
ANDERSON COUNTY
Decision #AM-8610 (B)
37 FR 10322 - 5/19/72
Mod. #1-37 FR 11623 - 6/9/72
Mod. #2-37 FR 21714 - 10/13/72
Mod. #3-37 FR 25626-12/1/72
Mod. #4-38 FR 2013-1/19/73
(Hw) - See Statewide
(F)-See Statewide
BEDFORD COUNTY
(F) - See Statewide
(Hw) - See Statewide
BENTON COUNTY
(F) - See Statewide
(Hw) - See Statewide
BLEDSOE COUNTY
(F) - See Statewide
(Hw) - See Statewide
BLOUNT COUNTY
(F) - See Statewide
(Hw) - See Statewide

TENNESSEE (cont'd)

BRADLEY COUNTY
(F)-See Statewide
(Hw)-See Statewide
CAMPBELL COUNTY
(F)-See Statewide
(Hw)-See Statewide
CANNON COUNTY
(F)-See Statewide
(Hw)-See Statewide
CARROLL COUNTY
Decision #AM-8589 (D)
37 FR 5654 - 3/17/72
Mod. #1 - 37 FR 24506 - 11/17/72
(F)-See Statewide
(Hw)-See Statewide
CARTER COUNTY
Decision #AP-104 (B)
37 FR 13915 - 7/14/72
(F)-See Statewide
(Hw)-See Statewide
CHEATHAM COUNTY
(F)-See Statewide
(Hw)-See Statewide
CHESTER COUNTY
(F)-See Statewide
(Hw)-See Statewide
CLAIBORNE COUNTY
(F)-See Statewide
(Hw)-See Statewide
CLAY COUNTY
(F)-See Statewide
(Hw)-See Statewide
COCKE COUNTY
(F)-See Statewide
(Hw)-See Statewide
COFFEE COUNTY
(F)-See Statewide
(Hw)-See Statewide
CROCKETT COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
CUMBERLAND COUNTY
(F)-See Statewide
(Hw)-See Statewide

TENNESSEE (Cont'd)

DAVIDSON COUNTY
Decision #AM-8622 (B,H)
37 FR 11632 - 6/9/72
Mod. #1-37 FR 14668 - 7/21/72
Mod. #2-37 FR 20388 - 9/29/72
Mod. #3-37 FR 21715 - 10/13/72
Mod. #4-37 FR 25111 - 11/25/72
Mod. #5-37 FR 28799-12/29/72
Decision #AM-505 (R)
36 FR 16494 - 8/20/72
Mod. #1-37 FR 21714 - 10/13/72
(F) - See Statewide
(Hw) - See Statewide
DECATUR COUNTY
(F) - See Statewide
(Hw) - See Statewide
DEKALB COUNTY
(F) - See Statewide
(Hw) - See Statewide
DICKSON COUNTY
(F) - See Statewide
(Hw) - See Statewide
(R) - See Davidson County
DYER COUNTY
(D) - See Carroll County
(F) - See Statewide
(Hw) - See Statewide
FAYETTE COUNTY
(D) - See Carroll County
(F) - See Statewide
(Hw) - See Statewide
FENTRESS COUNTY
(F) - See Statewide
(Hw) - See Statewide
FRANKLIN COUNTY
(F) - See Statewide
(Hw) - See Statewide
GIBSON COUNTY
(D) - See Carroll County
(F) - See Statewide
(Hw) - See Statewide
GILES COUNTY
(F) - See Statewide
(Hw) - See Statewide
GRAINGER COUNTY
(F) - See Statewide
(Hw) - See Statewide

TENNESSEE (Cont'd)

GREENE COUNTY
(F) - See Statewide
(Hw) - See Statewide
GRUNDY COUNTY
(F) - See Statewide
(Hw) - See Statewide
HAMBLEN COUNTY
(F) - See Statewide
(Hw) - See Statewide
HAMILTON COUNTY
Decision #AP-139 (B,H)
37 FR 25640 - 12/1/72
Mod. #1-38 FR 3253-2/2/73
(F) - See Statewide
(Hw) - See Statewide
HANCOCK COUNTY
(F)-See Statewide
(Hw)-See Statewide
HARDEMAN COUNTY
(D)-See Carroll County
(Hw)-See Statewide
(F)-See Statewide
HARDIN COUNTY
(F)-See Statewide
(Hw)-See Statewide
HAWKINS COUNTY
(F)-See Statewide
(Hw)-See Statewide
HAYWOOD COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
HENDERSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
HENRY COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
HICKMAN COUNTY
(F)-See Statewide
(Hw)-See Statewide
HOUSTON COUNTY
(F)-See Statewide
(Hw)-See Statewide
HUMPHREYS COUNTY
(F)-See Statewide
(Hw)-See Statewide
JACKSON COUNTY
(F)-See Statewide
(Hw)-See Statewide

TENNESSEE (cont'd)

JEFFERSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
JOHNSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
KNOX COUNTY
Decision #AP-154 (B)
38 FR 5776 - 3/2/73
(F)-See Statewide
(Hw)-See Statewide
LAKE COUNTY
(F)-See Statewide
(Hw)-See Statewide
LAUDERDALE COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
LAWRENCE COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County
LEWIS COUNTY
(F)-See Statewide
(Hw)-See Statewide
LINCOLN COUNTY
(F)-See Statewide
(Hw)-See Statewide
LOUDON COUNTY
(F)-See Statewide
(Hw)-See Statewide
MC MINN COUNTY
(F)-See Statewide
(Hw)-See Statewide
MC NAIRY COUNTY
(F)-See Statewide
(Hw)-See Statewide
MACON COUNTY
(F)-See Statewide
(Hw)-See Statewide
MADISON COUNTY
(D)-See Carroll county
(F)-See Statewide
(Hw)-See Statewide
MARSHALL COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County

TENNESSEE (cont'd)

MAURY COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County
MEIGS COUNTY
(F)-See Statewide
(Hw)-See Statewide
MONROE COUNTY
(F)-See Statewide
(Hw)-See Statewide
MONTGOMERY COUNTY
(F)-See Statewide
(Hw)-See Statewide
MOORE COUNTY
(F)-See Statewide
(hw)-See Statewide
MORGAN COUNTY
(F)-See Statewide
(Hw)-See Statewide
OBION COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
OVERTON COUNTY
(F)-See Statewide
(Hw)-See Statewide
PERRY COUNTY
(F)-See Statewide
(Hw)-See Statewide
PICKETT COUNTY
(F)-See Statewide
(Hw)-See Statewide
POLK COUNTY
(F)-See Statewide
(Hw)-See Statewide
PUTNAM COUNTY
(F)-See Statewide
(Hw)-See Statewide
RHEA COUNTY
(F)-See Statewide
(Hw)-See Statewide
ROANE COUNTY
(B)-See Anderson County
(F)-See Statewide
(Hw)-See Statewide

TENNESSEE (cont'd)

ROBERTSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County
RUTHERFORD COUNTY
(f)-See Statewide
(hw)-See Statewide
(R)-See Davidson County
SCOTT COUNTY
(F)-See Statewide
(Hw)-See Statewide
SEQUATCHIE COUNTY
(F)-See Statewide
(Hw)-See Statewide
SEVIER COUNTY
(F)-See Statewide
(Hw)-See Statewide
SHELBY COUNTY
Decision #AP-138 (B,H,Utility)
37 FR 25148-11/25/72
Mod. #1-38 FR 2013-1/19/73
Mod. #2-38 FR 4080-2/9/73
Mod. #3-38 FR 5762 - 3/2/73
Decision #AP-152 (R)
38 FR 4176 - 2/9/73
(D)- See Carroll County
(Hw) - See Statewide
SMITH COUNTY
(F)-See Statewide
(hw)-See Statewide
STEWART COUNTY
(F)-See Statewide
(Hw)-See Statewide
SULLIVAN COUNTY
Decision #AM-8623 (B)
37 FR 12013 - 6/16/72
Mod. #1 - 37 FR 23065 - 10/27/72
Decision #AP-137 (R)
37 FR 23051 - 10/27/72
(F)-See Statewide
(Hw)-See Statewide
SUMNER COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County

TENNESSEE (cont'd)

TIPTON COUNTY
(D)-See Carroll County
(F)-See Statewide
(Hw)-See Statewide
TROUSDALE COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County
UNICOI COUNTY
(F)-See Statewide
(Hw)-See Statewide
UNION COUNTY
(F)-See Statewide
(Hw)-See Statewide
VAN BUREN COUNTY
(F)-See Statewide
(Hw)-See Statewide
WARREN COUNTY
(F)-See Statewide
(Hw)-See Statewide
WASHINGTON COUNTY
Decision #AP-100 (H)
37 FR 13419 - 7/7/72
Mod. #1 - 37 FR 17316 - 8/25/72
Mod. #2 - 37 FR 22708 - 10/20/72
Decision #AP-136 (R)
37 FR 22702 - 10/20/72
(F)-See Statewide
(hw)-See Statewide
WAYNE COUNTY
(F)-See Statewide
(Hw)-See Statewide
WEAKLEY COUNTY
(D)-See Carroll County
(F)-See Statewide
WHITE COUNTY
(F)-See Statewide
(Hw)-See Statewide
WILLIAMSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County
WILSON COUNTY
(F)-See Statewide
(Hw)-See Statewide
(R)-See Davidson County

TEXAS

ANDERSON COUNTY
Decision #AP-384 (Hw)
38 FR 2118-1/19/73
ANDREWS COUNTY
Decision#AP-374 (Hw)
38 FR 2108-1/19/73
ANGELINA COUNTY
(Hw)-See Anderson County
ARANSAS COUNTY
Decision #AP-378 (Hw)
38 FR 2112-1/19/73
Decision #AM-8589 (D)
37 FR 5654-3/17/72
Mod. #1-37 FR 24506-11/17/72
ARCHER COUNTY
Decision #AP-372 (Hw)
38 FR 2106-1/19/73
ARMSTRONG COUNTY
Decision #AP-388 (B)
38 FR 2621-1/26/73
Mod. #1-38 FR 4081-2/9/73
(Hw)-See Archer County
Decision #AP-346 (R)
37 FR 20497-9/29/72
Mod. #1-38 FR 4080-2/9/73
ATASCOSA COUNTY
Decision #AP-376 (Hw, Water & Sewer Utilities)
38 FR 2110-1/19/73
AUSTIN COUNTY
Decision #AP-379 (Hw, Water & Sewer Utilities
38 FR 2113-1/19/73
BAILEY COUNTY
Decision #AP-373 (Hw)
38 FR 2107-1/19/73
Decision #AP-352 (E)
37 FR 21786-10/13/72
BANDERA COUNTY
(Hw, Water & Sewer Utilities)-See Atascosa County
BASTROP COUNTY
(Hw, Water & Sewer Utilities)-See Austin County
Decision #AM-7705 (R)
36 FR 22117-11/19/71
BAYLOR COUNTY
(Hw)-See Archer County
BEE COUNTY
(Hw)-See Aransas County

TEXAS (Cont'd)

BELL COUNTY
Decision #AP-380 (Hw)
38 FR 2114-1/19/73
BEXAR COUNTY
Decision #AP-393 (S)
38 FR 2637-1/26/73
Mod. #1-38 FR 4082-2/9/73
(Hw, water & sewer utilities) - See Aascosa County
Decision #AM-3,554 (R)
36 FR 16771 - 8/25/71
Mod. #1-37 FR 3118 - 2/11/72
BLANCO COUNTY
(Hw, water & sewer utilities) - See Austin County
(R) - See Bastrop County
BORDEN COUNTY
(Hw) - See Bailey County
BOSQUE COUNTY
(Hw) - See Bell County
BOWIE COUNTY
Decision #AP-383 (Hw)
38 FR 2117-1/19/73
BRAZORIA COUNTY
Decision #AP-386 (H,Hw)
38 FR 2120-1/19/73
Decision #AM-7,488 (R)
36 FR 21737 - 11/12/71
Mod. #1-37 FR 10695 - 5/26/72
(D) - See Aransas County
BRAZOS COUNTY
Decision #AP-385 (Hw)
38 FR 2119-1/19/73
BREWSTER COUNTY
Decision #AP-375 (Hw)
38 FR 2109-1/19/73
BRISCOE COUNTY
(Hw) - See Archer County
BROOKS COUNTY
Decision #AP-377 (Hw)
38 FR 2111-1/19/73
BROWN COUNTY
(Hw) - See Andrews County
BURLESON COUNTY
(Hw) - See Brazos County
BURNETT COUNTY
(Hw, water & sewer utilities) - See Austin County

TEXAS (Cont'd)

CALDWELL COUNTY
(Hw, water & sewer utilities) - See Austin County
(R) - See Bastrop County
CALHOUN COUNTY
(Hw) - See Aransas County
(D) - See Aransas County
CALLAHAN COUNTY
(Hw) - See Andrews County
CAMERON COUNTY
Decision #AP-396 (S)
38 FR 2646-1/26/73
(Hw) - See Brooks County
Decision #AP-369 (R)
37 FR 26775 - 12/15/72
(D) - See Aransas County
CAMP COUNTY
(Hw) - See Bowie County
CARSON COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
CASS COUNTY
(Hw) - See Bowie County
CASTRO COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
CHAMBERS COUNTY
Decision #AP-387 (Hw)
38 FR 2121-1/19/73
(D) - See Aransas County
CHEROKEE COUNTY
(Hw) - See Anderson County
CHILDRESS COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
CLAY COUNTY
(Hw) - See Archer County
COCHRAN COUNTY
(Hw) - See Bailey County
(R) - See Bailey County

TEXAS (Cont'd)

COKE COUNTY
(Hw) - See Andrews County
COLEMAN COUNTY
(Hw) - See Andrews County
COLLIN COUNTY
Decision #AP-399 (S-excluding Dallas-Fort Worth Regional Airport)
38 FR 3260 - 2/2/73
Mod. #1 - 4631 - 2/2/73
Decision #AP-382 (H, Hw-excluding Dallas-Fort Worth Regional Airport)
38 FR 2116-1/19/73
Decision #AM-7,487 (R)
36 FR 21736 - 11/12/71
COLLINGSWORTH COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
COLORADO COUNTY
(Hw, water & sewer utilities) - See Austin County
COMAL COUNTY
(Hw, water & sewer utilities) - See Atascosa County
COMANCHE COUNTY
(Hw) - See Andrews County
CONCHO COUNTY
(Hw) - See Andrews County
COOKE COUNTY
Decision #AP-381 (Hw-excluding Dallas-Fort Worth Regional Airport)
38 FR 2115-1/19/73
CORYELL COUNTY
(Hw) - See Bell County
COTTLE COUNTY
(Hw) - See Bailey County
CRANE COUNTY
(Hw) - See Andrews County
Decision #AP-347 (R)
37 FR 20499 - 9/29/72
CROCKETT COUNTY
(Hw) - See Andrews County

TEXAS (Cont'd)

CROSBY COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
CULBERSON COUNTY
(Hw) - See Brewster County
DALLAM COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
DALLAS COUNTY
(S) - See Collin County
(H & Hw) - See Collin County
(R) - See Collin County
DAWSON COUNTY
(Hw) - See Bailey County
DEAF SMITH COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
DELTA COUNTY
(Hw) - See Bowie County
DENTON COUNTY
(S) - See Collin County
(Hw) - See Cooke County
(R) - See Collin County
DE WITT COUNTY
(Hw) - See Aransas County
DICKENS COUNTY
(Hw) - See Bailey County
DIMMIT COUNTY
(Hw, water & sewer utilities) - See Atascosa County
DONLEY COUNTY
(S) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
DUVAL COUNTY
(Hw) - See Brooks County
EASTLAND COUNTY
(Hw) - See Andrews County
ECTOR COUNTY
(Hw) - See Andrews County
(R) - See Crane County

TEXAS (cont'd)

EDWARDS COUNTY
(Hw, water & sewer utilities)-
See Atascosa County
ELLIS COUNTY
(B, H, Hw, R) - See Collin County
EL PASO COUNTY
Decision #AP-390 (B)
38 FR 2628 - 1/26/73
Mod. #1 - 38 FR 4631 - 2/16/73
Mod. #2 - 38 FR 5108 - 2/23/73
Mod. #3 - 38 FR 5762 - 3/2/73
(Hw) - See Brewster County
ERATH COUNTY
(Hw) - See Andrews County
FALLS COUNTY
(Hw) - See Bell County
FANNIN COUNTY
(Hw) - See Bowie County
FAYETTE COUNTY
(Hw, water & sewer utilities) -
See Austin County
(R) - See Bastrop County
FISHER COUNTY
(Hw) - See Bailey County
FLOYD COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
FOARD COUNTY
(Hw) - See Bailey County
FORT BEND COUNTY
(H & Hw) - See Brazoria County
(R) - See Brazoria County
FRANKLIN COUNTY
(Hw) - See Bowie County
FREESTONE COUNTY
(Hw) - See Bell County
FRIO COUNTY
(Hw, water & sewer utilities) -
See Atascosa County
GAINES COUNTY
(Hw) - See Bailey County

TEXAS (cont'd)

GALVESTON COUNTY
Decision #AP-389 (B)
38 FR 2625 - 1/26/73
Mod. #1 - 38 FR 4081 - 2/9/73
Mod. #2 - 38 FR 5108 - 2/23/73
(H & Hw) - See Brazoria County
Decision #AP-348 (R)
37 FR 20501 - 9/29/72
(D) - See Aransas County
GARZA COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
GILLESPIE COUNTY
(Hw, water & sewer utilities) -
See Austin County
GLASSCOCK COUNTY
(Hw) - See Andrews County
GOLIAD COUNTY
(Hw) - See Aransas County
GONZALES COUNTY
(Hw, water & sewer utilities) -
See Austin County
GRAY COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
GRAYSON COUNTY
(B) - See Collin County
(H & Hw) - See Collin County
GREGG COUNTY
(Hw) - See Bowie County
GRIMES COUNTY
(Hw) - See Brazos County
GUADALUPE COUNTY
(Hw, water & sewer utilities) -
See Atascosa County
HALE COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
HALL COUNTY
(Hw) - See Archer County
HAMILTON COUNTY
(Hw) - See Bell County
HANSFORD COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County

TEXAS (Cont'd)

HARDEMAN COUNTY
(Hw) - See Archer County
HARDIN COUNTY
(Hw) - See Chambers County
HARRIS COUNTY
Decision #AP-395 (B)
38 FR 2643-1/26/73
Mod. #1-38 FR 4082-2/9/73
Mod. #2 - 38 FR 5109 - 2/23/73
(R) - See Brazoria County
(D) - See Aransas County
(H, Hw) - See Brazoria County
HARRISON COUNTY
(Hw) - See Bowie County
HARTLEY COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
HASKELL COUNTY
(Hw) - See Bailey County
HAYS COUNTY
(Hw, water & sewer utilities) -
See Austin County
(R) - See Bastrop County
HEMPHILL COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
HENDERSON COUNTY
(Hw) - See Anderson County
HIDALGO COUNTY
(B) - See Cameron County
(Hw) - See Brooks County
(R) - See Cameron County
HILL COUNTY
(Hw) - See Bell County
HOCKLEY COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
HOOD COUNTY
(B) - See Collin County
(Hw) - See Cooke County
Decision #AP-301 (R)
37 FR 15232 - 7/28/72
Mod. #1-37 FR 20395 - 9/29/72

TEXAS (Cont'd)

HOPKINS COUNTY
(Hw) - See Bowie County
HOUSTON COUNTY
(Hw) - See Anderson County
HOWARD COUNTY
(Hw) - See Andrews County
HUDSPETH COUNTY
(Hw) - See Brewster County
HUNT COUNTY
(B) - See Collin County
(Hw) - See Bowie County
(R) - See Collin County
HUTCHINSON COUNTY
(B)-- See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
IRION COUNTY
(Hw) - See Andrews County
JACK COUNTY
(Hw) - See Cooke County
JACKSON COUNTY
(Hw) - See Aransas County
(D)-- See Aransas County
JASPER COUNTY
(Hw) - See Anderson County
JEFF DAVIS COUNTY
(Hw) - See Brewster County
JEFFERSON COUNTY
Decision #AP-354 (B)
37 FR 23521 - 11/3/72
Mod. #1 - 37 FR 25115 - 11/25/72
Mod. #2 - 37 FR 26781 - 12/15/72
Mod. #3-38 FR 2571-1/26/73
Mod. #4-38 FR 4081-2/9/73
Mod. #5 - 38 FR 5108 - 2/23/73
(Hw) - See Chambers County
Decision #AP-353 (R)
37 FR 23519 - 11/3/72
Mod. #1 - 37 FR 11/25/72
Mod. #2 - 37 FR 26781 - 12/15/72
Mod. #3 - 38 FR 2571 - 1/26/73
Mod. #4 - 38 FR 4080 - 2/9/73
Mod. #5 - 38 FR 5108 - 2/23/73
(D) - See Aransas County
JIM HOGG COUNTY
(Hw) - See Brooks County
JIM WELLS COUNTY
(Hw) - See Aransas County
JOHNSON COUNTY
(B) - See Collin County
(Hw) - See Cooke County
(R) - See Hood County

TEXAS (cont'd)

JONES COUNTY
(Hw) - See Bailey County
KARNES COUNTY
(Hw)- See Aransas County
KAUFMAN COUNTY
(B) - See Collin County
(Hw) - See Bowie County
(R)- See Collin County
KENDALL COUNTY
(Hw, water & sewer utilities) - See Atascosa County
KENEDY COUNTY
(Hw) - See Brooks County
(D) - See Aransas County
KENT COUNTY
(Hw) - See Bailey County
KERR COUNTY
(Hw, water & sewer utilities) - See Atascosa County
KIMBLE COUNTY
(Hw) - See Andrews County
KING COUNTY
(Hw) - See Bailey County
KINNEY COUNTY
(Hw, water & sewer utilities) - See Atascosa County
KLEBERG COUNTY
(Hw) - See Aransas County
(D) - See Aransas County
KNOX COUNTY
(Hw) - See Bailey County
LAMAR COUNTY
(Hw) - See Bowie County
LAMB COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
LAMPASAS COUNTY
(Hw) - See Bell County
LA SALLE COUNTY
(Hw, water & sewer utilities) - See Atascosa County
LAVACA COUNTY
(Hw) - See Aransas County

TEXAS (Cont'd)

LEE COUNTY
(Hw, water & sewer utilities) - See Austin County
(R) - See Bastrop County
LEON COUNTY
(Hw) - See Brazos County
LIBERTY COUNTY
(Hw) - See Chambers County
LIMESTONE COUNTY
(Hw) - See Bell County
LIPSCOMB COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
LIVE OAK COUNTY
(Hw) - See Aransas County
LLANO COUNTY
(Hw, water & sewer utilities) - See Austin County
LOVING COUNTY
(Hw) - See Andrews County
(R) - See Crane County
LUBBOCK COUNTY
Decision #AP-394 (B)
38 FR 2640-1/26/73
Mod. #1 - 38 FR 4631 - 2/16/73
Mod. #2 - 38 FR 5109 - 2/23/73
Mod. #3 - 38 FR 5762 - 3/2/73
(Hw, R) - See Bailey County
LYNN COUNTY
(Hw, R) - See Bailey County
MCCULLOCH COUNTY
(Hw) - See Andrews County
MCLENNAN COUNTY
(Hw) - See Bell County
MCMULLEN COUNTY
(Hw), water & sewer utilities) - See Atascosa County
MADISON COUNTY
(Hw) - See Brazos County
MARION COUNTY
(Hw) - See Bowie County
MARTIN COUNTY
(Hw) - See Andrews County

TEXAS (Cont'd)

MASON COUNTY
(Hw, water & sewer utilities) - See Austin County
MATAGORDA COUNTY
(H & Hw) - See Brazoria County
(R) - See Brazoria County
(D) - See Aransas County
MAVERICK COUNTY
(Hw, water & sewer utilities) - See Atascosa County
MEDINA COUNTY
(Hw, water & sewer utilities) - See Atascosa County
MENARD COUNTY
(Hw) - See Andrews County
MIDLAND COUNTY
(Hw) - See Andrews County
(R) - See Crane County
MILAM COUNTY
(Hw) - See Brazos County
MILLS COUNTY
(Hw) - See Andrews County
MITCHELL COUNTY
(Hw) - See Andrews County
MONTAGUE COUNTY
(Hw) - See Archer County
MONTGOMERY COUNTY
(H & Hw) - See Brazoria County
(R)-See Brazoria County
MOORE COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
MORRIS COUNTY
(Hw) - See Bowie County
MOTLEY COUNTY
(Hw) - See Bailey County
NACOGDOCHES COUNTY
(Hw) - See Anderson County
NAVARRO COUNTY
(Hw) - See Bell County
NEWTON COUNTY
(Hw) - See Anderson County
NOLAN COUNTY
(Hw) - See Andrews County

TEXAS (cont'd)

NUECES COUNTY
Decision #AP-392 (B)
38 FR 2634-1/26/73
Mod. #1 - 38 FR 5762 - 3/2/73
(Hw, D)- See Aransas County
OCHILTREE COUNTY
(B) - See Armstrong County
(Hw)-See Archer County
(R)-See Armstrong County
OLDHAM COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
ORANGE COUNTY
(B) - See Jefferson County
(Hw) - See Chambers County
(R) - See Jefferson County
(D) - See Aransas County
PALO PINTO COUNTY
(B) - See Collin County
(Hw) - See Cooke County
(R) - See Hood County
PANOLA COUNTY
(Hw) - See Anderson County
PARKER COUNTY
(B) - See Collin County
(Hw) - See Cooke County
(R) - See Hood County
PARMER COUNTY
(Hw) - See Archer County
PECOS COUNTY
(Hw) - See Brewster County
(R) - See Crane County
POLK COUNTY
(Hw) - See Anderson County
POTTER COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County

TEXAS (cont'd)

PRESIDIO COUNTY
(Hw) - See Brewster County
RAINS COUNTY
(Hw) - See Bowie County
RANDALL COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
REAGAN COUNTY
(Hw) - See Andrews County
REAL COUNTY
(Hw, water & sewer utilities) - See Atascosa County
RED RIVER COUNTY
(Hw) - See Bowie County
REEVES COUNTY
(Hw) - See Brewster County
(R) - See Crane County
REFUGIO COUNTY
(Hw) - See Aransas County
(D) - See Aransas County
ROBERTS COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
ROBERTSON COUNTY
(Hw) - See Brazos County
ROCKWALL COUNTY
(B) - See Collin County
(H & Hw) - See Collin County
(R) - See Collin County
RUNNELS COUNTY
(Hw) - See Andrews County
RUSK COUNTY
(Hw) - See Bowie County
SABINE COUNTY
(Hw) - See Anderson County
SAN AUGUSTINE COUNTY
(Hw) - See Anderson County
SAN JACINTO COUNTY
(Hw) - See Anderson County
SAN PATRICIO COUNTY
(Hw) - See Aransas County
(D) - See Aransas County
SAN SABA COUNTY
(Hw) - See Andrews County
SCHLEICHER COUNTY
(Hw) - See Andrews County

TEXAS (cont'd)

SCURRY COUNTY
(Hw) - See Bailey County
SHACKELFORD COUNTY
(hw) - See Bailey County
SHELBY COUNTY
(Hw) - See Anderson County
SHERMAN COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
SMITH COUNTY
(Hw) - See Bowie County
SOMERVELL COUNTY
(Hw) - See Cooke County
STARR COUNTY
(B) - See Cameron County
(Hw) - See Brooks Coudty
(R) - See Cameron County
STEPHENS COUNTY
(Hw) - See Bailey County
STERLING COUNTY
(Hw) - See Andrews County
STONEWALL COUNTY
(Hw) - See Bailey County
SUTTON COUNTY
(Hw) - See Andrews County
SWISHER COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong COunty
TARRANT COUNTY
(B) - See Collin County
(Hw) - See Cooke County
Decision #AM-11423 (R)
37 FR 11617 - 6/9/72
Mod. #1 - 37 FR 20394 - 9/29/72
TAYLOR COUNTY
(Hw) - See Andrews County
TERRELL COUNTY
(Hw) - See Brewster County
TERRY COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
THROCKMORTON COUNTY
(Hw) - See Bailey County
TITUS COUNTY
(Hw) - See Bowie County
TOM GREEN COUNTY
(Hw) - See Andrews County

TEXAS (Cont'd)

TRAVIS COUNTY
Decision #AP-391 (B)
38 FR 2631-1/26/73
Mod. #1-38 FR 4081-2/9/73
Mod. #2-38 FR 4631 - 2/16/73
(Hw, water & sewer utilities) - See Austin County
(R) - See Bastrop County
TRINITY COUNTY
(Hw) - See Anderson County
TYLER COUNTY
(Hw) - See Anderson County
UPSHUR COUNTY
(Hw) - See Bowie County
UPTON COUNTY
(Hw) - See Andrews County
(R) - See Crane County
UVALDE COUNTY
(Hw, water & sewer utilities) - See Atascosa County
VAL VERDE COUNTY
(Hw, water & sewer utilities) - See Atascosa County
VAN ZANDT COUNTY
(Hw) - See Bowie County
VICTORIA COUNTY
(Hw) - See Aransas County
(D) - See Aransas County
WALKER COUNTY
(Hw) - See Brazos County
(R) - See Brazoria County
WALLER COUNTY
(H & Hw) - See Brazoria County
WARD COUNTY
(Hw) - See Andrews County
(R) - See Andrews County
WASHINGTON COUNTY
(Hw) - See Brazos County
WEBB COUNTY
(Hw) - See Brooks County
WHARTON COUNTY
(H & Hw) - See Brazoria County

TEXAS (Cont'd)

WHEELER COUNTY
(B) - See Armstrong County
(Hw) - See Archer County
(R) - See Armstrong County
WICHITA COUNTY
(Hw) - See Archer County
WILBARGER COUNTY
(Hw) - See Archer County
WILLACY COUNTY
(B) - See Cameron County
(Hw) - See Brooks County
(R) - See Cameron County
(D) - See Aransas County
WILLIAMSON COUNTY
(Hw, water & sewer utilities) - See Austin County
(R) - See Bastrop County
WILSON COUNTY
(Hw, water & sewer utilities) - See Atascosa County
WINKLER COUNTY
(Hw) - See Andrews County
(R) - See Crane County
WISE COUNTY
(B) - See Collin County
(Hw) - See Cooke County
(R) - See Hood County
WOOD COUNTY
(Hw) - See Bowie County
YOAKUM COUNTY
(Hw) - See Bailey County
(R) - See Bailey County
YOUNG COUNTY
(Hw) - See Bailey County
ZAPATA COUNTY
(Hw) - See Brooks County
ZAVALA COUNTY
(Hw, water & sewer utilities) - See Atascosa County

UTAH

STATEWIDE
Decision #AP-254 (B-H-Hw)
37 FR 26255 - 12/8/72
Mod. #1-38 FR 939-1/5/73
BEAVER COUNTY
(B, H, Hw) - See Statewide
BOX ELDER COUNTY
(B, H, Hw) - See Statewide
CACHE COUNTY
(B, H, Hw) - See Statewide
CARBON COUNTY
(B, H, Hw) - See Statewide
DAGGETT COUNTY
(B, H, Hw) - See Statewide
DAVIS COUNTY
(B, H, Hw) - See Statewide
DUCHESNE COUNTY
(B, H, Hw) - See Statewide
EMERY COUNTY
(B, H, Hw) - See Statewide
GARFIELD COUNTY
(B, H, Hw) - See Statewide
GRAND COUNTY
(B, H, Hw) - See Statewide
IRON COUNTY
(B, H, Hw) - See Statewide
JUAB COUNTY
(B, H, Hw) - See Statewide
KANE COUNTY
(B, H, Hw) - See Statewide
MILLARD COUNTY
(B, H, Hw) - See Statewide
MORGAN COUNTY
(B, H, Hw) - See Statewide
PIUTE COUNTY
(B, H, Hw) - See Statewide
RICH COUNTY
(B, H, Hw) - See Statewide
SALT LAKE COUNTY
(B, H, Hw) - See Statewide
SAN JUAN COUNTY
(B, H, Hw) - See Statewide
SANPETE COUNTY
(B, H, Hw) - See Statewide
SEVIER COUNTY
(B, H, Hw) - See Statewide
SUMMIT COUNTY
(B, H, Hw) - See Statewide

UTAH (cont'd)

TOOELE COUNTY
(B, H, Hw) - See Statewide
UINTAH COUNTY
(B, H, Hw) - See Statewide
UTAH COUNTY
(B, H, Hw) - See Statewide
WASATCH COUNTY
(B, H, Hw) - See Statewide
WASHINGTON COUNTY
(B, H, Hw) - See Statewide
WAYNE COUNTY
(B, H, Hw) - See Statewide
WEBER COUNTY
(B, H, Hw) - See Statewide

VERMONT

STATEWIDE
Decision #AP-438 (Hw)
37 FR 21693 - 10/13/72
Mod. #1 - 37 FR 25116 - 11/25/72
Mod. #2-38 FR 2013-1/19/73
ADDISON COUNTY
(Hw) - See Statewide
BENNINGTON COUNTY
(Hw) - See Statewide
CALEDONIA COUNTY
(Hw) - See Statewide
CHITTENDEN COUNTY
(Hw) - See Statewide
ESSEX COUNTY
(Hw) - See Statewide
FRANKLIN COUNTY
(Hw) - See Statewide
GRAND ISLE COUNTY
(Hw) - See Statewide
LAMOILLE COUNTY
(Hw) - See Statewide
ORANGE COUNTY
(Hw) - See Statewide
ORLEANS COUNTY
(Hw) - See Statewide
RUTLAND COUNTY
(Hw) - See Statewide
WASHINGTON COUNTY
(Hw) - See Statewide
WINDHAM COUNTY
(Hw) - See Statewide
WINDSOR COUNTY
(Hw) - See Statewide

VIRGINIA

ACCOMACK COUNTY
Decision #AM-1872 (Hw)
36 FR 16340 - 8/20/71
Mod. #1 - 36 FR 23106 - 12/3/71
Mod. #2 - 37 FR 5663 - 3/17/72
Decision #AP-439 (D)
37 FR 22701 - 10/20/72
ALBERMARLE COUNTY
Decision #AM-1874 (Hw)
36 FR 16342 - 8/20/71
ALEXANDRIA CITY
Decision #AP-443 (B)
37 FR 24515 - 11/17/72
Mod. #1 - 37 FR 26515 - 12/1/72
Mod. #2 - 37 FR 26198 - 12/8/72
Mod. #3 - 38 FR 2015 - 1/19/73
Mod. #4 - 38 FR 5109 - 2/23/73
Mod. #5 - 38 FR 5764 - 3/2/73
Decision #AP-450 (R)
37 FR 25117 - 11/25/72
(D) - See Accomack County
ALLEGHENY COUNTY
Decision #AM-1875 (Hw)
36 FR 16343 - 8/20/71
Mod. #1 - 37 FR 5169 - 3/10/72
AMELIA COUNTY
Decision #AM-1871 (Hw)
36 FR 16339 - 8/20/71
AMHERST COUNTY
Decision #AM-1870 (Hw)
36 FR 16338 - 8/20/71
APPOMATTOX COUNTY
(Hw) - See Amherst County
ARLINGTON COUNTY
(B) - See Alexandria City
(R) - See Alexandria City
(D) - See Accomack County
AUGUSTA COUNTY
Decision #AM-9320 (R)
37 FR 10267 - 5/19/72
(Hw) - See Allegheny County
BATH COUNTY
(Hw) - See Allegheny County
BEDFORD COUNTY
Decision #AM-1869 (Hw)
36 FR 16337 8/20/71
Mod. #1 - 36 FR 18274 - 9/10/71
BLAND COUNTY
Decision #AM-1868 (Hw)
36 FR 16336 - 8/20/71

VIRGINIA (Cont'd)

BOTETOURT COUNTY
(Hw) - See Bedford County
BRISTOL COUNTY
(Hw) - See Bland County
BRUNSWICK COUNTY
(Hw) - See Amelia County
BUCHANAN COUNTY
(Hw) - See Bland County
BUCKINGHAM COUNTY
(Hw) - See Amherst County
BUENA VISTA CITY
(Hw) - See Allegheny County
CAMPBELL COUNTY
(Hw) - See Amherst County
CAROLINE COUNTY
Decision #AM-1873 (Hw)
36 FR 16341 - 8/20/71
Mod. #1 - 37 FR 15238 - 7/28/72
CARROLL COUNTY
(Hw) - See Bedford County
CHARLES CITY COUNTY
(Hw) - See Amelia County
CHARLOTTE COUNTY
(Hw) - See Amherst County
CHARLOTTESVILLE CITY
(Hw) - See Albermarle County
CHESAPEAKE CITY
Decision #AP-468 (B)
38 FR 4177-2/9/73
Mod. #1 - 5674 - 3/2/73
(Hw, D) - See Accomack County
CHESTERFIELD COUNTY
(Hw) - See Amelia County
CLARKE COUNTY
Decision #AP-406 (R)
37 FR 15234 - 7/28/72
(Hw) - See Allegheny County
CLIFTON FORGE CITY
(Hw) - See Allegheny County
COLONIAL HEIGHTS CITY
(Hw) - See Amelia County
COVINGTON CITY
(Hw) - See Allegheny County
CRAIG COUNTY
(Hw) - See Bedford County

VIRGINIA (cont'd)

CULPEPER COUNTY
(Hw) - See Albemarle County
CUMBERLAND COUNTY
(Hw) - See Amherst County
DANVILLE CITY
(Hw) - See Amherst County
DICKERSON COUNTY
(Hw) - See Bland County
DINWIDDIE COUNTY
(Hw) - See Amelia County
ESSEX COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
FAIRFAX COUNTY
(B) - See Alexandria City
(R) - See Alexandria City
(D) - See Accomack County
FAIRFAX CITY
(B) - See Alexandria City
(R) - See Alexandria City
FALLS CHURCH CITY
(B) - See Alexandria City
(R) - See Alexandria City
FAUQUIER COUNTY
(Hw) - See Albemarle County
FLOYD COUNTY
(Hw) - See Bedford County
FLUVANNA COUNTY
(Hw) - See Albemarle County
FORT MONROE CITY
(Hw) - See Accomack County
FRANKLIN CITY
(Hw) - See Accomack County
FRANKLIN COUNTY
(Hw) - See Bedford County

VIRGINIA (cont'd)

FREDERICK COUNTY
(R) - See Clarke County
(Hw) - See Allegheny County
FREDERICKSBURG CITY
(Hw) - See Caroline County
GALAX CITY
(Hw) - See Bland County
GILES COUNTY
(Hw) - See Bedford County
GLOUCESTER COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
GOOCHLAND COUNTY
(Hw) - See Amelia County
GREENE COUNTY
(Hw) - See Albemarle County
GREENSVILLE COUNTY
(Hw) - See Accomack County
HALIFAX COUNTY
(Hw) - See Amherst County
HAMPTON CITY
(Hw) - See Accomack County
(D) - See Accomack County
HANOVER COUNTY
(Hw) - See Amelia County
HARRISONBURG CITY
(Hw) - See Allegheny County
HENRICO COUNTY
Decision #AP-441 (B)
37 FR 23495 - 11/3/72
Mod. #1-37 FR 25627 - 12/1/72
Mod. #2-37 FR 28804-12/29/72
Mod. #3-38 FR 939-1/5/73
Mod. #4-38 FR 2014-1/19/73
Mod. #5-38 FR 3253-2/2/73
Mod. #6-38 FR 5763-3/2/73
(Hw) - See Amelia County

VIRGINIA (cont'd)

HENRY COUNTY
(Hw) - See Bedford County
HIGHLAND COUNTY
(Hw) - See Allegheny County
HOPEWELL CITY
(Hw) - See Amelia County
ISLE OF WIGHT COUNTY
(Hw) - See Accomack County
(D) - See Accomack County
JAMES CITY COUNTY
Decision #AP-407 (R)
37 FR 15235 - 7/28/72
(Hw) - See Accomack County
(D) - See Accomack County
KING AND QUEEN COUNTY
(Hw) - See Caroline County
KING GEORGE COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
KING WILLIAM COUNTY
(Hw) - See Caroline County
LANCASTER COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
LEE COUNTY
(Hw) - See Bland County
LOUDOUN COUNTY
(Hw) - See Albemarle County
LOUISA COUNTY
(Hw) - See Albemarle County
LUNENBURG COUNTY
(Hw) - See Amelia County
LYNCHBURG CITY
(Hw) - See Amherst County

VIRGINIA (cont'd)

MADISON COUNTY
(Hw) - See Albemarle County
MARTINSVILLE CITY
(Hw) - See Bedford County
MATHEWS COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
MECKLENBURG COUNTY
(Hw) - See Amelia County
MIDDLESEX COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
MONTGOMERY COUNTY
(Hw) - See Bedford County
NANSEMOND COUNTY
(Hw) - See Accomack County
(D) - See Accomack County
NELSON COUNTY
(Hw) - See Amherst County
NEW KENT COUNTY
(Hw) - See Amelia County
NEWPORT NEWS CITY
(Hw) - See Accomack County
(D) - See Accomack County
NORFOLK CITY
(B)-See Chesapeake City
(Hw) - See Accomack County
(D) - See Accomack County
NORTHAMPTON COUNTY
(Hw) - See Accomack County
(D) - See Accomack County
NORTON CITY
(Hw) - See Bland County

VIRGINIA (cont'd)

NORTHUMBERLAND COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
NOTTOWAY COUNTY
(Hw) - See Amelia County
ORANGE COUNTY
(Hw) - See Albermarle County
PAGE COUNTY
(Hw) - See Allegheny County
PATRICK COUNTY
(Hw) - See Bedford County
PETERSBURG COUNTY
(Hw) - See Amelia County
PITTSYLVANIA COUNTY
(Hw) - See Amherst County
PORTSMOUTH CITY
(B) - See Chesapeake City
(Hw) - See Accomack County
(D) - See Accomack County
POWHATAN COUNTY
(Hw) - See Amelia County
PRINCE EDWARD COUNTY
(Hw) - See Amherst County
PRINCE GEORGE COUNTY
(Hw) - See Amelia County
PRINCE WILLIAM COUNTY
(Hw) - See Albermarle County
(D) - See Accomack County
PULASKI COUNTY
(Hw) - See Bedford County
RADFORD CITY
(Hw) - See Bedford County
RAPAHANNOCK COUNTY
(Hw) - See Albermarle County
RICHMOND CITY
(B) - See Henrico County
(Hw) - See Amelia County
RICHMOND COUNTY
(Hw) - See Caroline County
ROANOKE CITY
(Hw) - See Bedford County
ROANOKE COUNTY
(Hw) - See Bedford County
ROCKBRIDGE COUNTY
(Hw) - See Allegheny County

VIRGINIA (Cont'd)

ROCKINGHAM COUNTY
(R) - See Clarke County
(Hw) - See Alleghany County
RUSSELL COUNTY
(Hw) - See Bland County
SCOTT COUNTY
(Hw) - See Bland County
SHENANDOAH COUNTY
(Hw) - See Alleghany County
(R) - See Clarke County
SMYTH COUNTY
(Hw) - See Bland County
SOUTHAMPTON COUNTY
(Hw) - See Accomack County
SOUTH BOSTON CITY
(Hw) - See Amherst County
SPOTSYLVANIA COUNTY
(Hw) - See Caroline County
STAUNTON CITY
(Hw) - See Alleghany County
STAFFORD COUNTY
(Hw) - See Caroline County
(D) - See Accomack County
SUFFOLK CITY
(Hw) - See Accomack County
SURRY COUNTY
(Hw) - See Accomack County
(D) - See Accomack County
SUSSEX COUNTY
(Hw) - See Accomack County
TAZEWELL COUNTY
(Hw) - See Bland County
VIRGINIA BEACH CITY
Decision #AM-9321 (R)
37 FR 10266 - 5/19/72
(Hw) - See Accomack County
(D) - See Accomack County
WARREN COUNTY
(R) - See Clarke County
(Hw) - See Alleghany County
WASHINGTON COUNTY
(Hw) - See Bland County
WAYNESBORO CITY
(Hw) - See Alleghany County
WESTMORELAND COUNTY
(Hw) - See Caroline County
(D) - See Accomack County

VIRGINIA (Cont'd)

WILLIAMSBURG CITY
(Hw) - See Accomack County
WINCHESTER CITY
(Hw) - See Alleghany County
WISE COUNTY
(Hw) - See Bland County
WYTHE COUNTY
(Hw) - See Bland County
YORK COUNTY
(R) - See James City County
(Hw) - See Accomack County
(D) - See Accomack County

WASHINGTON

STATEWIDE
Decision #AP-261 (B,H,Hw,D)
38 FR 3265-2/2/73
ADAMS COUNTY
(B,H,Hw,D)-See Statewide
ASOTIN COUNTY
(B,H,Hw,D)-See Statewide
BENTON COUNTY
(B,H,Hw,D)-See Statewide
CHELAN COUNTY
(B,H,Hw,D)-See Statewide
CLALLAM COUNTY
(B,H,Hw,D)-See Statewide
CLARK COUNTY
(B,H,Hw,D)-See Statewide
COLUMBIA COUNTY
(B,H,Hw,D)-See Statewide
COWLITZ COUNTY
(B,H,Hw,D)-See Statewide
DOUGLAS COUNTY
(B,H,Hw,D)-See Statewide
FERRY COUNTY
(B,H,Hw,D)-See Statewide
FRANKLIN COUNTY
(B,H,Hw,D)-See Statewide
GARFIELD COUNTY
(B,H,Hw,D)-See Statewide
GRANT COUNTY
(B,H,Hw,D)-See Statewide
GRAYS HARBOR COUNTY
(B,H,Hw,D)-See Statewide
ISLAND COUNTY
(B,H,Hw,D)-See Statewide
JEFFERSON COUNTY
(B,H,Hw,D)-See Statewide

WASHINGTON (Cont'd)

KING COUNTY
(B,H,Hw,D)-See Statewide
KITSAP COUNTY
(B,H,Hw,D)-See Statewide
KITTITAS COUNTY
(B,H,Hw,D)-See Statewide
KLICKITAT COUNTY
(B,H,Hw,D)-See Statewide
LEWIS COUNTY
(B,H,Hw,D)-See Statewide
LINCOLN COUNTY
(B,H,Hw,D)-See Statewide
MASON COUNTY
(B,H,Hw,D)-See Statewide
OKANOGAN COUNTY
(B,H,Hw,D)-See Statewide
PACIFIC COUNTY
(B,H,Hw,D)-See Statewide
PEND OREILLE COUNTY
(B,H,Hw,D)-See Statewide
PIERCE COUNTY
(B,H,Hw,D)-See Statewide
SAN JUAN COUNTY
(B,H,Hw,D)-See Statewide
SKAGIT COUNTY
(B,H,Hw,D)-See Statewide
SKAMANIA COUNTY
(B,H,Hw,D)-See Statewide
SNOHOMISH COUNTY
(B,H,Hw,D)-See Statewide
SPOKANE COUNTY
(B,H,Hw,D)-See Statewide
STEVENS COUNTY
(B,H,Hw,D)-See Statewide
THURSTON COUNTY
(B,H,Hw,D)-See Statewide
WAHKIAKUM COUNTY
(B,H,Hw,D)-See Statewide
WALLA WALLA COUNTY
(B,H,Hw,D)-See Statewide
WHATCOM COUNTY
(B,H,Hw,D)-See Statewide
WHITMAN COUNTY
(B,H,Hw,D)-See Statewide
YAKIMA COUNTY
(B,H,Hw,D)-See Statewide

WASHINGTON, D. C.

WASHINGTON, D.C.
Decision #AP-442 (B, Hw, Sewer & water)
37 FR 24512 - 11/17/72
Mod. #1 - 37 FR 25627 - 12/1/72
Mod. #2 - 37 FR 26198 - 12/8/72
Mod. #3 - 38 FR 2014 - 1/19/73
Mod. #4 - 38 FR 5109 - 2/23/73
Mod. #5 - 38 FR 5764 - 3/2/73
Decision #AP-450 (R)
37 FR 25117 - 11/25/72

WEST VIRGINIA

BARBOUR COUNTY
(H & Hw) - See Kanawha County
BERKELEY COUNTY
(H & Hw) - See Kanawha County
BOONE COUNTY
(H & Hw) - See Kanawha County
BRAXTON COUNTY
(H & Hw) - See Kanawha County
BROOKE COUNTY
(H & Hw) - See Kanawha County
CABELL COUNTY
Decision #AP-403 (B)
37 FR 14661 - 7/21/72
Mod. #1-37 FR 16722 - 8/18/72
Mod. #2-37 FR 21720 - 10/13/72
Decision #AP-602 (D)
38 FR 1433-1/12/73
(H & Hw) - See Kanawha County
CALHOUN COUNTY
(H & Hw) - See Kanawha County
CLAY COUNTY
(H & Hw) - See Kanawha County

WEST VIRGINIA (Cont'd)

DODDRIDGE COUNTY
(H & Hw) - See Kanawha County
FAYETTE COUNTY
(H & Hw) - See Kanawha County
GILMER COUNTY
(H & Hw) - See Kanawha County
GRANT COUNTY
(H & Hw) - See Kanawha County
GREENBRIER COUNTY
(H & Hw) - See Kanawha County
HAMPSHIRE COUNTY
(H & Hw) - See Kanawha County
HANCOCK COUNTY
(H & Hw) - See Kanawha County
HARDY COUNTY
(H & Hw) - See Kanawha County
HARRISON COUNTY
(H & Hw) - See Kanawha County
JACKSON COUNTY
(D)-See Cabell County
(H & Hw) - See Kanawha County
JEFFERSON COUNTY
(H & Hw) - See Kanawha County
KANAWHA COUNTY
Decision #AP-402 (B)
37 FR 14659 - 7/21/72
Mod. #1-37 FR 20401 - 9/29/72
Mod. #2-37 FR 21720 - 10/13/72
Mod. #3-38 FR 4082-2/9/73
Decision #AP-405 (R)
37 FR 15236 - 7/28/72
Mod. #1-37 FR 20401 - 9/29/72
Mod. #2-37 FR 21720 - 10/13/72
Mod. #3-38 FR 4082-2/9/73

WEST VIRGINIA (Cont'd)

KANAWHA COUNTY (Cont'd)
Decision #AM-9,690 (H & Hw)
37 FR 6140 - 3/24/72
Mod. #1-37 FR 7030 - 4/7/72
Mod. #2-37 FR 7923 - 4/21/72
Mod. #3-37 FR 9170 - 5/5/72
Mod. #4-37 FR 26781 - 12/15/72
LEWIS COUNTY
(H & Hw) - See Kanawha County
LINCOLN COUNTY
(H & Hw) - See Kanawha County
LOGAN COUNTY
(H & Hw) - See Kanawha County
McDOWELL COUNTY
(H & Hw) - See Kanawha County
MARION COUNTY
(H & Hw) - See Kanawha County
MARSHALL COUNTY
(H & Hw) - See Kanawha County
MASON COUNTY
(D)-See Cabell County
(H & Hw) - See Kanawha County
MERCER COUNTY
(H & Hw) - See Kanawha County
MINERAL COUNTY
(H & Hw) - See Kanawha County,
MINGO COUNTY
(H & Hw) - See Kanawha County
MONONGALIA COUNTY
(H & Hw) - See Kanawha County
MONROE COUNTY
(H & Hw) - See Kanawha County
MORGAN COUNTY
(H & Hw) - See Kanawha County
NICHOLAS COUNTY
(H & Hw) - See Kanawha County
OHIO COUNTY
(H & Hw) - See Kanawha County
PENDLETON COUNTY
(H & Hw) - See Kanawha County
PLEASANT COUNTY
(D)-See Cabell County
(H & Hw) - See Kanawha County
PRESTON COUNTY
(H & Hw) - See Kanawha County

WEST VIRGINIA (cont'd)

PUTNAM COUNTY
(H & Hw) - See Kanawha County
RALEIGH COUNTY
(H & Hw) - See Kanawha County
RANDOLPH COUNTY
(H & Hw) - See Kanawha County
RITCHIE COUNTY
(H & Hw) - See Kanawha County
ROANE COUNTY
(H & Hw) - See Kanawha County
SUMMERS COUNTY
(H & Hw) - See Kanawha County
TAYLOR COUNTY
(H & Hw) - See Kanawha County
TUCKER COUNTY
(H & Hw) - See Kanawha County
TYLER COUNTY
(H & Hw) - See Kanawha County
UPSHUR COUNTY
(H & Hw) - See Kanawha County
WAYNE COUNTY
(H & Hw) - See Kanawha County
WEBSTER COUNTY
(H & Hw) - See Kanawha County
WETZEL COUNTY
(D)-See Cabell County
(H & Hw) - See Kanawha County
WIRT COUNTY
(H & Hw) - See Kanawha County
WOOD COUNTY
(D)-See Cabell County
(H & Hw) - See Kanawha County
WYOMING COUNTY
(H & Hw) - See Kanawha County

WISCONSIN

ADAMS COUNTY
Decision #AP-72 (Hw)
37 FR 26273 - 12/8/72
Mod. #1-38 FR 2019-1/19/73
ASHLAND COUNTY
Decision #AP-4 (D)
37 FR 14670 - 7/21/72
Decision #AP-70 (Hw)
37 FR 26269 - 12/8/72
Mod. #1-38 FR 2018-1/19/73

WISCONSIN (cont'd)

BARRON COUNTY
Decision #AP-71 (Hw)
37 FR 26271 - 12/8/72
Mod. #1-38 FR 2018-1/19/73
BAYFIELD COUNTY
(D) - See Ashland County
(Hw) - See Ashland County
BROWN COUNTY
Decision #AP-53 (B)(H)(Hw)
37 FR 25643 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2015-1/19/73
Mod. #3-38 FR 5111-2/23/72
(D) - See Ashland County
BUFFALO COUNTY
(Hw) - See Barron County
BURNETT COUNTY
(Hw) - See Ashland County
CALUMET COUNTY
Decision #AP-74 (Hw)
37 FR 26277 - 12/8/72
Mod. #1-38 FR 2019-1/19/73
CHIPPEWA COUNTY
(Hw) - See Barron County
CLARK COUNTY
(Hw) - See Barron County
COLUMBIA COUNTY
Decision #AP-73 (Hw)
37 FR 26275 - 12/8/72
Mod. #1-38 FR 2019-1/19/73
CRAWFORD COUNTY
(Hw) - See Columbia County
DANE COUNTY
Decision #AP-54 (B)(H)(Hw)
37 FR 25647 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2015-1/19/73
Mod. #3-38 FR 5111-2/23/73
Decision #AP-65 (R)
37 FR 25606 - 12/1/72
Mod. #1 - 38 FR 28358 - 12/22/72
Mod. #2 - 38 FR 2018 - 1/19/73
Mod. #3 - 38 FR 5112 - 2/23/73
DODGE COUNTY
(Hw) - See Columbia County
DOOR COUNTY
(D) - See Ashland County
(Hw) - See Calumet County
DOUGLAS COUNTY
(D) - See Ashland County

WISCONSIN (cont'd)

(Hw) - See Ashland County
DUNN COUNTY
(Hw) - See Barron County
EAU CLAIRE COUNTY
Decision #AP-55 (B)(H)(Hw)
37 FR 25650 - 12/1/72
Mod. #1-38 FR 2016-1/19/73
Mod. #2-38 FR 5111-2/23/73
FLORENCE COUNTY
(Hw) - See Calumet County
FOND DU LAC COUNTY
Decision #AP-75 (Hw)
37 FR 26279 - 12/8/72
Mod. #1-38 FR 2019-1/19/73
FOREST COUNTY
(Hw) - See Ashland County
GRANT COUNTY
(Hw) - See Columbia County
GREEN COUNTY
(Hw) - See Columbia County
GREEN LAKE COUNTY
(Hw) - See Adams County
IOWA COUNTY
(Hw) - See Columbia County
IRON COUNTY
(D) - See Ashland County
(Hw) - See Ashland County
JACKSON COUNTY
(Hw) - See Columbia County
JEFFERSON COUNTY
(Hw) - See Columbia County
JUNEAU COUNTY
Decision #AP-56 (B)(H)(Hw)
37 FR 25654 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2016-1/19/73
Mod. #3-38 FR 5111-2/23/73
KENOSHA COUNTY
Decision #AP-57 (B)(H)(Hw)
37 FR 25658 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2016-1/19/73
KEWAUNEE COUNTY
(D) - See Ashland County
(Hw) - See Calumet County
LA CROSSE COUNTY
Decision #AP-58 (B)(H)(Hw)
37 FR 25662 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2016-1/19/73
Mod. #3-38 FR 5112-2/23/73

WISCONSIN (cont'd)

LA CROSSE COUNTY (cont'd)
Decision #AP-66 (R)
37 FR 25609 - 12/1/72
Mod. #1 - 37 FR 28358 - 12/22/72
Mod. #2 - 38 FR 2018 - 1/19/73
Mod. #3 - 38 FR 5112 - 2/23/73
LAFAYETTE COUNTY
(Hw) - See Columbia County
LANGLADE COUNTY
(Hw) - See Adams County
LINCOLN COUNTY
(Hw) - See Ashland County
MANITOWOC COUNTY
(D) - See Ashland County
(Hw) - See Calumet County
MARATHON COUNTY
Decision #AP-59 (B)(H)(Hw)
37 FR 25666 - 12/1/72
Mod. #1-38 FR 2017-1/19/73
Mod. #2-38 FR 5111-2/23/73
MARINETTE COUNTY
(D) - See Ashland County
(Hw) - See Calumet County
MARQUETTE COUNTY
(Hw) - See Adams County
MENOMINEE COUNTY
(Hw) - See Adams County
MILWAUKEE COUNTY
Decision #AP-60 (B)(H)(Hw)
37 FR 25669 - 12/1/72
Mod. #1-37 FR 28357-12/22/72
Mod. #2-38 FR 2017-1/19/73
Mod. #3-38 FR 5111-2/23/73
(D) - See Ashland County
Decision #AP-67 (R)
37 FR 25612 - 12/1/72
Mod. #1 - 37 FR 28358 - 12/22/72
Mod. #2 - 38 FR 5112 - 2/23/73
MONROE COUNTY
(Hw) - See Columbia County
OCONTO COUNTY
(D) - See Ashland County
(Hw) - See Calumet County

WISCONSIN (cont'd)

ONEIDA COUNTY
(Hw) - See Ashland County
OUTAGAMIE COUNTY
(Hw) - See Calumet County
OZAUKEE COUNTY
(B)(H)(Hw) - See Milwaukee County
(D) - See Ashland County
(Hw) - See Fond du Lac County
(R) - See Milwaukee County
PEPIN COUNTY
(Hw) - See Barron County
PIERCE COUNTY
(Hw) - See Barron County
POLK COUNTY
Decision #AP-61 (B)(H)(Hw)
37 FR 25674 - 12/1/72
Mod. #1-38 FR 2017-1/19/73
PORTAGE COUNTY
(Hw) - See Adams County
PRICE COUNTY
(Hw) - See Ashland County
RACINE COUNTY
Decision AP-62 (B)(H)(Hw)
37 FR 25678 - 12/1/72
Mod. #1-37 FR 28357 - 12/22/72
Mod. #2-38 FR 2017-1/19/73
(D) - See Ashland County
RICHLAND COUNTY
(Hw) - See Columbia County
ROCK COUNTY
Decision #AP-63 (B)(H)(Hw)
37 FR 25682 - 12/1/72
Mod. #1-37 FR 28358-12/22/72
Mod. #2-38 FR 2018-1/19/73
Mod. #3-38 FR 5111-2/23/73
RUSK COUNTY
(Hw) - See Ashland County
SAINT CROIX COUNTY
(Hw) - See Barron County
SAUK COUNTY
(Hw) - See Columbia County
SAWYER COUNTY
(Hw) - See Ashland County

WISCONSIN (Cont'd)

SHAWANO COUNTY
(Hw) - See Adams County
SHEBOYGAN COUNTY
(D) - See Ashland County
(Hw) - See Fond du Lac County
TAYLOR COUNTY
(Hw) - See Ashland County
TREMPEALEAU COUNTY
(Hw) - See Barron County
VERNON COUNTY
(Hw) - See Columbia County
VILAS COUNTY
(Hw) - See Ashland County
WALWORTH COUNTY
(Hw) - See Fond du Lac County
WASHBURN COUNTY
(Hw) - See Ashland County
WASHINGTON COUNTY
(B)(H)(Hw) - See Milwaukee County
(Hw) - See Fond du Lac County
(R) - See Milwaukee County
WAUKESHA COUNTY
(B)(H)(Hw) - See Milwaukee County
(R) - See Milwaukee County
WAUPACA COUNTY
(Hw) - See Adams County
WAUSHARA COUNTY
(Hw) - See Adams County
WINNEBAGO COUNTY
Decision #AP-64 (B)(H)(Hw)
37 FR 25686 - 12/1/72
Mod. #1 - 37 FR 28358 - 12/22/72
Mod. #2 - 38 FR 2018 - 1/19/73
Mod. #3 - 38 FR 5112 - 2/23/73
WOOD COUNTY
(Hw) - See Adams County

WYOMING

STATEWIDE
Decision #AM-2,476 (Hw)
36 FR 17159 - 8/27/71
Mod. #1-37 FR 4470 - 3/3/72
Mod. #2-37 FR 28805-12/29/72
Mod. #3-38 FR 2020-1/19/73
ALBANY COUNTY
(Hw) - See Statewide

WYOMING (Cont'd)

BIG HORN COUNTY
(Hw) - See Statewide
CAMPBELL COUNTY
(Hw) - See Statewide
CARBON COUNTY
(Hw) - See Statewide
CONVERSE COUNTY
(Hw) - See Statewide
CROOK COUNTY
(Hw) - See Statewide
FREMONT COUNTY
(Hw) - See Statewide
GOSHEN COUNTY
(Hw) - See Statewide
HOT SPRINGS COUNTY
(Hw) - See Statewide
JOHNSON COUNTY
(Hw) - See Statewide
LARAMIE COUNTY
Decision #AP-250 (B,H,Hw)
37 FR 24011 - 11/10/72
Mod. #1 - 38 FR 940 - 1/5/73
Mod. #2 - 38 FR 2021 - 1/19/73
LINCOLN COUNTY
(Hw) - See Statewide
NATRONA COUNTY
(Hw) - See Statewide
NIOBRARA COUNTY
(Hw) - See Statewide
PARK COUNTY
(Hw) - See Statewide
PLATTE COUNTY
(Hw) - See Statewide
SHERIDAN COUNTY
(Hw) - See Statewide
SUBLETTE COUNTY
(Hw) - See Statewide
SWEETWATER COUNTY
(Hw) - See Statewide
TETON COUNTY
(Hw) - See Statewide
UINTA COUNTY
(Hw) - See Statewide
WASHAKIE COUNTY
(Hw) - See Statewide
WESTON COUNTY
(Hw) - See Statewide
YELLOWSTONE NATIONAL PARK COUNTY
(Hw) - See Statewide

[FR Doc.73-6477 Filed 4-5-73;8:45 am]