



**Highway Maintenance Manual**  
**Chapter 02 Administration**  
**Section 25 Cost Invoicing**  
**Subject 50 Classified Equipment Rates**

**Bureau of Highway Maintenance**  
**Effective January 1, 2021**

**1.0 2021 Classified Equipment Rates Standard and Special Rated Units**

<u>Class</u>	<u>Description</u>	<u>Rate</u>	<u>Est. Life</u>
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**AIR COMPRESSORS**

Rates are for the compressor and pneumatic tools used with the compressor, except breakers, jackhammers (class 929), and wagon drills. Rates do not include equipment used to transport the compressor.

<a href="#">402</a>	125 through 209 CFM -----	15.18/hr.	10 years
<a href="#">403</a>	210 CFM and over-----	20.46/hr.	10 years

**BITUMINOUS EQUIPMENT**

**Note: Paver rates include the cost of automatic controls.**

<a href="#">701</a>	Bitumen kettle, 1-2 bbls, inclusive, includes fuel -----	20.30/hr.	8 years
<a href="#">702</a>	Bitumen kettle, 3-5 bbls, inclusive, includes fuel -----	23.64/hr.	8 years
<a href="#">707</a>	Tank car heater (except wood or coal fired)-----	27.04/hr.	12 years
<a href="#">708</a>	Trailer style distributor, including tank and equipment, but not the truck-----	38.26/hr.	12 years
<a href="#">709</a>	Patch material heater and mixer (surge bin), trailer or truck mounted ----- <a href="#">(Alternate Photo)</a>	16.40/hr.	12 years
<a href="#">710</a>	Heating kettle, less than 300 gallons -----	42.66/hr.	8 years
<a href="#">711</a>	Heating kettle, 300 gallons or more -----	50.00/hr.	8 years
<a href="#">712</a>	Self-propelled paver and finishing machine -----	1.46/ton	8 years
<a href="#">713</a>	Portable storage tank for oil/emulsion with heating unit; charge only for hours of heating or pumping-----	16.96/hr.	12 years
<a href="#">714</a>	Portable supply or storage tank for oil/emulsion -----	123.14/day	12 years
<a href="#">716</a>	Distributor, including truck, rear drive, 23,000 through 49,999 lbs-----	67.80/hr.	7 years
<a href="#">717</a>	Distributor, including truck, tandem rear drive, 23,000 through 49,999 lbs-----	66.38/hr.	9 years
<a href="#">718</a>	Distributor, including truck, tandem rear drive, 50,000 lbs and over -----	110.06/hr.	9 years
<a href="#">719</a>	Pavement profiler, 2' and under, not self-propelled -----	46.26/hr.	10 years
<a href="#">720</a>	Pavement profiler, self-propelled or not self-propelled over 2'----- <a href="#">(Alternate Photo)</a>	84.00/hr.	8 years

**GENERATORS, PORTABLE ELECTRIC**

<a href="#">805</a>	3,001 watt output through 10,000 watt output-----	16.32/hr.	12 years
<a href="#">806</a>	10,001 watt output and over-----	53.84/hr.	12 years

**GRADERS, MOTOR**

**Note: The cost of automatic controls (i.e. lasers) is not included in the grader rates. A separate add-on rate for lasers is identified as class 315.**

Classifications are in accordance with rated net flywheel horsepower (hp), exclusive of attachments. Horsepower shall be in accordance with Society of Automotive Engineers (S.A.E.) standard 1349.

<a href="#">302</a>	Rear drive grader, less than 85 hp -----	35.38/hr.	10 years
<a href="#">305</a>	Rear drive grader, 85 hp through 149 hp -----	57.30/hr.	10 years
<a href="#">307</a>	Rear drive grader, 150 hp and greater -----	61.96/hr.	10 years
<a href="#">308</a>	All wheel drive grader, any hp -----	72.06/hr.	10 years
<a href="#">315</a>	Non-integrated, Slope control, used in grader -----	18.78/hr.	10 years

**GRADERS, TOW TYPE ATTACHMENT**

<a href="#">323</a>	Any number of blades ( <a href="#">Alternate Photo</a> ) -----	7.08/hr.	10 years
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**MAINTAINER ATTACHMENTS**

<a href="#">392</a>	Hydraulically operated return blade-----	6.46/hr.	10 years
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**MOWERS AND MOWER ATTACHMENTS**

<a href="#">410</a>	Motorized lawnmower, less than 60" cut-----	13.78/hr.	5 years
<a href="#">411</a>	Motorized lawnmower, 60" cut or more -----	21.66/hr.	5 years
<a href="#">412</a>	Disc bine attachment-----	27.72/hr.	10 years
<a href="#">413</a>	Single pan section, rotary or flail attachment -----	14.92/hr.	10 years
<a href="#">414</a>	Sickle bar attachment-----	15.52/hr.	10 years
<a href="#">415</a>	2 pan section (single unit), rotary or flail attachment-----	22.04/hr.	10 years
<a href="#">416</a>	3 pan section (single unit), rotary or flail attachment-----	23.90/hr.	10 years

**COMPACTORS**

<a href="#">531</a>	Tow-type, including sheepsfoot, vibrating and non-vibrating----- ( <a href="#">Alternate Photo</a> ) ( <a href="#">Alternate Photo</a> )	14.76/hr.	10 years
<a href="#">532</a>	Self-propelled, non-vibratory-----	42.70/hr.	10 years
<a href="#">533</a>	Self-propelled, vibratory, 1 through 2 tons-----	27.20/hr.	8 years
<a href="#">534</a>	Self-propelled, vibratory, over 2 tons-----	34.96/hr.	8 years

**SCRAPERS AND SCRAPER ATTACHMENTS**

Scrapers are rated as a unit with the tractor used exclusively for scraper operation. Capacity is based on the manufacturer's truck capacity without sideboards.

<a href="#">546</a>	Scraper, single engine-----	72.32/hr.	10 years
<a href="#">547</a>	Scraper, twin-engine-----	102.80/hr.	10 years

**SHOULDERING MACHINES**

<a href="#">450</a>	Shoulder reclaimer <a href="#">(Alternate Photo)</a> -----	17.18/hr.	10 years
<a href="#">451</a>	Shoulder machine attachment-----	74.76/hr.	10 years
<a href="#">455</a>	Self-propelled, (road widener)-----	127.20/hr.	10 years

**EXCAVATORS**

Complete units classified by capacity, including the truck or tractor. Capacity is based on manufacturer's rating.

<a href="#">552</a>	Truck mounted, including hydraulic cable operated combination backhoe units--	52.70/hr.	10 years
<a href="#">555</a>	Track-type backhoe, through 99 hp -----	44.80/hr.	10 years
<a href="#">557</a>	Self contained excavator, rubber tire -----	57.40/hr.	10 years
<a href="#">558</a>	Shovel, track-type (100 through 149 hp)-----	48.66/hr.	10 years
<a href="#">559</a>	Shovel, track-type (150 hp and over)-----	61.52/hr.	10 years

**SNOW PLOWS, MOTOR GRADER AND TRACTOR ATTACHMENTS**

<a href="#">612</a>	Widening wing-----	32.98/hr.	10 years
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**SNOW PLOWS, ATTACHMENTS**

<a href="#">632</a>	V-shape -----	32.78/hr.	10 years
<a href="#">633</a>	Power reversible, truck mounted <a href="#">(Alternate Photo)</a> -----	13.04	
	hr.	10 years	
<a href="#">634</a>	One-way (including motor grader or tractor attachments) -----	10.34/hr.	10 years
<a href="#">635</a>	Widening wing-----	12.10/hr.	10 years
<a href="#">636</a>	Underbody, fixed moldboard-----	15.34/hr.	10 years
<a href="#">637</a>	Underbody, power reversible moldboard -----	18.18/hr.	10 years

**SPREADER ATTACHMENTS**

These attachments are for applying sand, chips, or deicers. Units purchased after 1/1/86 shall be capable of calibration within 10% of the recommended sodium chloride application rate (100 to 300 lbs./lane mile) at speeds of 15 to 35 miles per hour. The term "computer controlled" means that the controller receives a vehicle speed signal and a spreader feed signal (i.e., closed loop is terminology also used within the industry) and can be calibrated in pounds and liquid per mile. These controllers can be calibrated to apply the exact amount of granular and liquid material per mile at any speed.

<a href="#">420</a>	Spreader, tailgate mounted, computer controlled with on board pre-wetting system (may include anti-icing spray bar)-----	13.72/hr.	8 years
<a href="#">421</a>	Spreader, hopper type truck body with conveyor feeding material to power driven spinner type spreader, computerized, with on board pre-wetting system (may include anti-icing spray bar) -----	28.02/hr.	8 years
<a href="#">422</a>	Hopper type truck body with conveyor feeding material to power driven spinner type spreader, non-computerized, with on board pre-wetting system -----	17.66/hr.	8 years

<a href="#">423</a>	Spreader, tailgate mounted, non-computerized, with on board pre-wetting system -----	9.56/hr.	8 years
<a href="#">424</a>	Tailgate mounted, non-computerized -----	10.62/hr.	8 years
<a href="#">425</a>	Hopper type truck body with conveyor feeding material to power driven spinner type spreader, non-computerized (without pre-wetting system)-----	22.38/hr.	8 years
<a href="#">426</a>	Tailgate mounted, computer controlled (without pre-wetting system) -----	12.58/hr.	8 years
<a href="#">427</a>	Hopper type truck body with conveyor feeding material to power driven spinner type spreader, computerized (without pre-wetting system) ----- <a href="#">(Alternate Photo)</a>	28.02hr.	8 years
<a href="#">428</a>	Zero-velocity type spreader, includes 'pre-wetting' type system (may include anti-icing spray bar)-----	29.18/hr.	8 years

**SPREADERS, SELF-PROPELLED CHIP**

<a href="#">440</a>	Single width with mechanical extension-----	150.38/hr.	10 years
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**SWEEPERS AND ATTACHMENTS**

<a href="#">431</a>	Broom, power take-off or hydraulic pump driven, attached to separate vehicle class -----	36.24hr.	10 years
<a href="#">432</a>	Broom, self-powered, pulled by separate vehicle-----	40.00/hr.	10 years
<a href="#">433</a>	Street sweeper, mechanical debris collection system, self-propelled -----	92.48/hr.	10 years
<a href="#">434</a>	Broom, self powered, self-propelled -----	44.10/hr.	10 years
<a href="#">435</a>	Vacuum debris collection system, with or without sweeper, self-propelled <a href="#">(Alternate Photo)</a> -----	81.02/hr.	10 years

**TRACTORS/SKID STEERS/END LOADERS/DOZERS**

These units shall be rated by net flywheel SAE horsepower (hp). Net horsepower shall be in accordance with Society of Automotive Engineers (SAE) standard 1349, and shall not exceed that stated in the manufacturer's national advertising.

<a href="#">202</a>	Wheel-type, 12 through 34 hp -----	24.12hr.	10 years
<a href="#">203</a>	Wheel-type, 35 through 49 hp -----	23.78/hr.	10 years
<a href="#">204</a>	Wheel-type, 50 through 64 hp -----	30.52/hr.	10 years
<a href="#">205</a>	Wheel-type, 65 through 79 hp -----	31.22/hr.	10 years
<a href="#">206</a>	Wheel-type, 80 through 99 hp -----	31.34/hr.	10 years
<a href="#">207</a>	Wheel-type, 100 through 149 hp-----	46.50/hr.	10 years
<a href="#">208</a>	Wheel-type, 150 through 214 hp-----	59.02/hr.	10 years
<a href="#">209</a>	Wheel-type, 215 hp and more -----	65.08/hr.	10 years
<a href="#">215</a>	Track-type dozer, through 79 hp -----	44.80/hr.	10 years
<a href="#">216</a>	Track-type dozer, 80 through 99 hp-----	43.72/hr.	10 years
<a href="#">217</a>	Track-type dozer, 100 through 149 hp-----	46.48/hr.	10 years

<a href="#">218</a>	Track-type dozer, 150 through 214 hp-----	85.02/hr.	10 years
<a href="#">219</a>	Track-type dozer, 215 hp and more-----	76.58/hr.	10 years
<a href="#">221</a>	Agricultural type tractor/skid steer, 4- wheel drive units, 20 through 64 hp----- <a href="#">(Alternate Photo)</a> <a href="#">(Alternate Photo)</a>	27.06/hr.	10 years
<a href="#">222</a>	Agricultural type tractor/skid steer, 4- wheel drive units, 65 through 79 hp----- <a href="#">(Alternate Photo)</a> <a href="#">(Alternate Photo)</a>	28.68/hr.	10 years
<a href="#">223</a>	Agricultural type tractor/skid steer, 4- wheel drive units, 80 through 99 hp----- <a href="#">(Alternate Photo)</a> <a href="#">(Alternate Photo)</a>	32.94/hr.	10 years
<a href="#">224</a>	Agricultural type tractor/skid steer, 4- wheel drive units, 100 up to 175 hp-----	39.60/hr.	10 years
<a href="#">250</a>	Backhoe/loader/tractor, (80 hp and over)-----	50.30/hr.	10 years

## TRAILERS

Classification shall be based on the manufacturer's rated capacity for the specific model trailer

<a href="#">490</a>	Less than 1 ton (use manufacturer's rated capacity) -----	10.66/hr.	10 years
<a href="#">491</a>	1 through 4 tons (use manufacturer's rated capacity) -----	14.10/hr.	10 years
<a href="#">493</a>	5 through 29 tons (use manufacturer's rated capacity)-----	21.04/hr.	10 years
<a href="#">496</a>	30 tons and over (use manufacturer's rated capacity)-----	36.92/hr.	10 years

## TRUCKS

Classifications shall be based on the manufacturer's gross vehicle weight (GVW) rating assigned to the specific model, including all component equipment recommended or required by the manufacturer, as listed in the current national advertising and specifications. No consideration shall be given to any GVW that may be assigned for a specific purpose, preferred service, limited area, or that is not included in the national advertising for that model. If optional GVW's or a range of GVW's are given without identifying equipment necessary to place the unit within the range, the average of the range shall be used.

**The washing of trucks performing winter activities shall be charged to the job using activity code 072 in accordance with the truck washing parameters identified in HMM 02-25-01, Activity Codes. All other (non-winter) truck washing shall be charged to the truck unit.**

<a href="#">101</a>	Rear drive or 4wd, 15,000 lbs and less -----	14.16/hr.	6 years
<a href="#">103</a>	Rear drive or 4wd, 15,001 through 17,999 lbs-----	17.82/hr.	6 years
<a href="#">104</a>	Rear drive or 4wd, 18,000 through 22,999 lbs-----	24.26/hr.	6 years
<a href="#">106</a>	Rear drive or 4wd, 23,000 lbs through 50,000 lbs -----	53.82/hr.	10 years
<a href="#">112</a>	Rear drive, 4wd or 6wd, more than 50,000 lbs <a href="#">(Alternate Photo)</a> -----	64.64/hr.	15 years
<a href="#">117</a>	Tandem rear drive through 49,999 lbs -----	46.92/hr.	9 years
<a href="#">118</a>	Tandem rear drive, 50,000 lbs and over -----	68.52/hr.	9 years
<a href="#">1118</a>	Tandem rear drive, 50,000 lbs and over, with tri-axles -----	60.20/hr.	9 years
<a href="#">1128</a>	Tandem rear drive, 50,000 lbs and over, with quad-axles-----	48.94/hr.	9 years

## VEHICLES

<a href="#">114</a>	Automobiles-----	0.78/mile	100,000mi
115	Commissioner Vehicle (Administration Account) -----	set rate locally	100,000mi
<a href="#">119</a>	Vans and SUV's-----	14.98/hr.	5 years
120	Patrol superintendent vehicles -----	0.54/mile	100,000mi

**MISCELLANEOUS EQUIPMENT**

<a href="#">901</a>	Backhoe attachment/Grapple ( <a href="#">Alternate Photo</a> )-----	12.50/hr.	10 years
<a href="#">902</a>	Brush chipper-----	30.62/hr.	8 years
<a href="#">906</a>	Mechanical tamper, self-powered -----	31.36/hr.	8 years
<a href="#">907</a>	Ripper attachments for graders or tractors -----	124.78/hr.	10 years
<a href="#">908</a>	Surge bin-----	57.06/hr.	15 years
<a href="#">910</a>	Arrow board, self contained on trailer or truck mounted -----	3.58/hr.	10 years
<a href="#">911</a>	Conveyor-----	15.54/hr.	12 years
<a href="#">912</a>	Mudjack -----	43.88/hr.	10 years
<a href="#">915</a>	Post hole digger (auger), attachment-----	30.10/hr.	10 years
<a href="#">918</a>	Screening plant-----	0.34/ton	10 years
<a href="#">919</a>	Spring tooth or disc harrow attachment-----	11.74/hr.	10 years
<a href="#">923</a>	Water pump, centrifugal (with or without trailer) ( <a href="#">Alternate Photo</a> )-----	25.90/hr.	5 years
<a href="#">924</a>	Water pump, diaphragm -----	19.28/hr.	5 years
<a href="#">925</a>	Sprayer, multi-purpose stand alone, liquid distribution system, including tank, spray bar, nozzles, to be used for spot weed spraying or dust control, excluding anti-icing. -----	13.88/hr.	10 years
<a href="#">926</a>	Water tanker or portable tank with pump and spray bars, not for anti-icing, exclusive of motive equipment (no charge may be made while in transit)----- ( <a href="#">Alternate Photo</a> )	26.76/hr.	8 years
<a href="#">930</a>	Hydro-seeder with water supply-----	47.72/hr.	10 years
<a href="#">931</a>	Mulch spreader with water supply -----	52.64/hr.	10 years
<a href="#">932</a>	Brush cutter, (backhoe mounted on boom) ( <a href="#">Alternate Photo</a> )-----	27.74/hr.	5 years
<a href="#">933</a>	Shoulder drag-----	16.76/hr.	10 years
<a href="#">934</a>	Concrete saw, through 9 hp, including blades-----	52.54/hr.	3 years
<a href="#">935</a>	Concrete saw, 10 through 24 hp, including blades -----	45.56hr.	5 years
<a href="#">936</a>	Concrete saw, 25 hp and over, includes blades -----	71.94/hr.	10 years
<a href="#">937</a>	Hot air lance -----	6.48/hr.	5 years
<a href="#">938</a>	Pavement router/joint cleaner/roto-cutter, asphalt, including bits-----	43.10/hr.	5 years

<a href="#">939</a>	Field office, Class A -----	73.96/day	15 years
<a href="#">940</a>	Brush cutter (tractor mounted)-----	21.46/hr.	3 years
<a href="#">941</a>	Bump burner, infrared or open flame grader attach -----	108.76/hr.	12 years
<a href="#">942</a>	Post pusher/driver (wood or metal)-----	22.98/hr.	12 years
<a href="#">946</a>	Trailer, sign-----	12.72/day	10 years
<a href="#">947</a>	Portable pressure washer (heated or not heated) - attached wheels, capacity thru 20 hp -----	41.56/hr.	10 years
<a href="#">948</a>	Aerial platform (self-propelled or trailer mounted / not mounted on a truck) -----	16.18/hr.	12 years
<a href="#">949</a>	Attenuator (with or without arrow board)-----	11.00/hr.	10 years
<a href="#">950</a>	Centerliner, mounted on dual axle truck -----	92.48/hr.	10 years
<a href="#">951</a>	Centerliner, mounted on single axle truck -----	82.20/hr.	12 years
<a href="#">952</a>	Liquid dust control, applicator only -----	0.16/gal	8 years
<a href="#">953</a>	Boom for mowers, attached to tractor -----	15.12/hr.	10 years
<a href="#">954</a>	Sign truck, any combination of storage cabinets, auger and aerial platform (primarily used for installing signs) -----	28.30/hr.	10 years
<a href="#">955</a>	Tailgate conveyor or spreader box -----	30.02/hr.	12 years
<a href="#">956</a>	Hydraulic drill -----	27.12/hr.	8 years
<a href="#">958</a>	Message board (programmable) maximum charge of 12 hours in a 24 hr period -----	5.12/hr.	10 years
<a href="#">960</a>	Portable pressure washer (heated or not heated) - attached wheels, capacity 21 hp and greater -----	47.92/hr.	10 years
<a href="#">970</a>	Boom utility truck, any combination of storage cabinets, auger and man bucket (not primarily used for sign installation)-----	59.68/hr.	10 years
<a href="#">975</a>	Welder, electric, 0 - 300 amp capacity (does not include cost of welding rod) -----	2.88/hr.	10 years
<a href="#">976</a>	Welder, electric, 301 amp capacity and up (does not include cost of welding rod) -----	6.18/hr.	10 years