



Production Rate Table

[See FDM 19-10-30 for additional guidance.](#)

Item	Unit	Expected Production Range ⁽¹⁾
Clearing and Grubbing	STA/DAY	4 - 10, 6 typ.
Deck Removal (Full or Partial)	SF/DAY	590 - 2,700, 1,000 typ.
Remove Pavement (concrete)	SY/DAY	600 - 3,000, 1,400 typ.
Milling Asphalt (thin, 0 to 2 inches)	SY/DAY	6,000 - 25,000, 16,000 typ.
Milling Asphalt (thick, 2 inches or more)	SY/DAY	8,000 - 19,000, 12,000 typ.
Excavation (Truck)	CY/DAY	270 - 1,600, 920 typ.
Excavation (Scraper)	CY/DAY	1,000 - 8,000, 4,500 typ.
Excavation (Articulated Truck)	CY/DAY	1,700 - 4,300, 2,800 typ.
Shallow Excavation (Shoulders & Ditches)	CY/DAY	200 - 1,000, 520 typ.
Rock Excavation	CY/DAY	180 - 1,100, 800 typ.
Marsh Excavation	CY/DAY	420 - 2,200, 1,500 typ.
Excavation Below Subgrade	CY/DAY	370 - 1,200, 650 typ.
Cofferdam for Foundation	SF/DAY	280 - 1,000, 420 typ.
Base Course (Shoulders)	TON/DAY	130 - 1,000, 490 typ.
Base Course (Roadway)	TON/DAY	400 - 1,800, 810 typ.
Breaker Run	TON/DAY	780 - 3,900, 1,800 typ.
Shattering Pavement	SY/DAY	5,000 - 15,000
Concrete Pavement	SY/DAY	1,200 - 5,000, 2,600 typ.
Grinding	SY/DAY	1,500 - 3,600, 2,100 typ.
HMA Pavement	TONS/DAY	730 - 1,800, 1,400 typ.
Asphalt Pavement (hand placement)	TONS/DAY	120 - 320, 200 typ.
Rumble Strips (Shoulder)	LF/DAY	22,000 - 60,000, 35,000 typ.
Rumble Strips (centerline)	LF/DAY	21,000 - 51,000, 39,000 typ.

1. The expected production ranges in the table is the remaining range of production rates after 25% of the highest values and 25% of the lowest values have been removed. The typical production rate is the median.



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Concrete Masonry, Bridges (Foundation Substructure)	CY/DAY	15 - 32, 19 typ.
Parapet	LF/DAY	49 - 130, 60 typ.
Deck Placement (Girder Bridge)	SF/DAY	600 - 5,900, 1,400 typ.
Deck Placement (Slab Bridge)	SF/DAY	270 - 1,200, 620 typ.
Precast Concrete Girder Erection	EACH/DAY	4 - 8, 7 typ.
Concrete Masonry, Culverts	CY/DAY	5 - 15
Structural Steel Beams	EACH/DAY	6 - 12
Bridge Overlay	SY/DAY	25 - 870, 220 typ.
Temporary Sheet Piling	SF/DAY	230 - 660, 340 typ.
Culvert Pipe	LF/DAY	82 - 200, 100 typ.
Retaining Walls (Mechanically Stabilized)	SF/DAY	170 - 700, 240 typ.
Driving Piles (All Types)	LF/DAY	200 - 420, 310 typ.
Curb and Gutter	LF/DAY	400 - 1,700, 850 typ.
Sidewalks	SF/DAY	860 - 3,000, 1,800 typ.
Concrete Barrier	LF/DAY	300 - 1,400, 690 typ.
Riprap	SY/DAY	50 - 210, 100 typ.
Manholes and Catch Basins	EACH/DAY	2 - 4, 3 typ.
Pipe Underdrains	LF/DAY	120 - 700, 240 typ.
Steel Plate Guardrail	LF/DAY	250 - 650, 420 typ.
Chain Link Fence	LF/DAY	79 - 460, 350 typ.
Topsoil Placement	CY/DAY	110 - 800, 340 typ.
Seeding SY	SY/DAY	2,300 - 9,700, 4,600 typ.
Sodding	SY/DAY	480 - 1,800, 1,300 typ.
Grooved Epoxy Marking (Grinding Only)	LF/DAY	12,000 - 66,000, 41,000 typ.
Grooved Epoxy Marking (Marking Only)	LF/DAY	22,000 - 85,000, 60,000 typ.

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