

WSDOT Highway Construction Costs

June 2016

This is a recap of prices bid last quarter and includes a comparison to the previous quarter. It also gives the current year to date bid price for an item. All averages are the weighted average of a set of data. It is intended to provide insight into the cost of an item by showing the range of prices bid. The estimated cost of future projects is dependent on many factors and the unit price selected is determined by an evaluation of past history, future trends and specific details of the project. The average price listed for each item below is not intended to be the bid price used in an estimate.

Roadway Excavation: \$21.14 per cubic yard

The unit bid price decreased by \$3.04 from the average unit price of \$24.18 per cubic yard last quarter. The prices ranged from \$7.00 to \$230.00 per cubic yard. WSDOT awarded 31,602 cubic yards of roadway excavation during the second quarter of 2016 and 59,051 cubic yards during the first quarter of 2016. The average unit bid price for 2016, year to date, is \$23.12 per cubic yard.

Crushed Surfacing: \$23.00 per ton

The unit bid price increased by \$1.93 from the average unit price of \$21.07 per ton in the first quarter of 2016. The prices ranged from \$13.00 to \$128.00 per ton. WSDOT awarded 44,597 tons of crushed surfacing during the second quarter of 2016 and 83,417 tons of crushed surfacing during the first quarter of 2016. The average unit bid price for 2016, year to date, is \$21.74 per ton.

Hot Mix Asphalt: \$76.58 per ton

The unit bid price increased by \$3.05 from the average unit price of \$73.53 per ton last quarter. WSDOT awarded 360,567 tons of hot mix asphalt during the second quarter of 2016 and 293,687 tons of HMA during the first quarter of 2016. The average unit bid price for western Washington was \$81.01. The average unit bid price for eastern Washington was \$68.38. The 2016 average unit bid price, year to date, for all of Washington State is \$75.21 per ton.

Concrete Pavement: \$167.10

The average unit bid price for the first quarter of 2016 is \$167.10. WSDOT awarded 29,980 cubic yards of concrete pavement during this quarter. Since only one job had PCCP, there was no high or low price to report for the first quarter of 2016. There was no PCCP awarded in the second quarter of 2016.

Structural Concrete: \$725.14 per cubic yard

There was no structural concrete awarded in the first quarter of 2016. WSDOT awarded 400 cubic yards of Structural Concrete in the second quarter of 2016. The average unit bid price for the second quarter was \$725.14 per cubic yard.

Steel Reinforcing Bar: \$2.00 per pound

The average unit bid price for Steel Reinforcing Bar increased by \$1.05 per pound in the second quarter of 2016. The first quarter of 2016 for Steel Reinforcing Bar was \$0.95 per pound. WSDOT awarded 83,730 pounds of Steel Reinforcing Bar during the first quarter of 2016 and an additional 191,430 pounds during the second quarter.

Structural Steel: \$1.50 per pound

No structural steel was awarded during 2015 or the first half of 2016. The unit bid price during the fourth quarter of 2014 was \$2.49 per pound. During the fourth quarter of 2014, WSDOT awarded 2,648,658 pounds of structural steel. The average unit bid price in 2014 was \$2.52.

WSDOT Unit Bid Prices by Year

Year	WSDOT CCI	Roadway Excavation		Crushed Surfacing		Hot Mix Asphalt		Portland Cement Concrete Pavement		Structural Concrete		Steel Reinforcing Bar		Structural Steel	
		\$/C.Y.	C.Y. Awarded	\$/Ton	Tons Awarded	\$/Ton	Tons Awarded	\$/C.Y.	C.Y. Awarded	\$/C.Y.	C.Y. Awarded	\$/LB	LBs Awarded	\$/LB	LBs Awarded
1990	110	\$2.62	671,535	\$8.58	104,201	\$32.82	100,090	\$55.00	0	\$231.51	1,642	\$0.45	636,173	\$0.82	1,930,000
1991	121	\$4.05	1,808,745	\$9.62	571,159	\$28.62	1,013,919	\$61.53	22,740	\$322.81	10,415	\$0.45	3,510,600	\$1.04	2,186,000
1992	108	\$3.98	2,180,047	\$9.72	736,536	\$26.48	1,327,930	\$46.98	33,269	\$232.04	31,071	\$0.44	6,566,164	\$0.97	5,813,600
1993	106	\$3.24	6,142,080	\$7.65	1,988,632	\$27.23	2,043,134	\$59.97	58,370	\$265.49	40,201	\$0.42	8,054,307	\$0.88	11,848,000
1994	105	\$3.47	2,925,995	\$7.77	1,396,251	\$27.83	1,312,217	\$65.29	95,415	\$248.94	53,120	\$0.41	13,914,531	\$0.71	5,041,000
1995	124	\$4.46	2,551,036	\$9.28	1,079,113	\$28.28	1,282,315	\$100.83	16,508	\$285.02	28,026	\$0.44	5,601,982	\$1.34	1,378,000
1996	124	\$3.92	2,465,355	\$9.64	691,247	\$28.07	1,567,581	\$126.60	0	\$305.22	36,859	\$0.49	7,598,737	\$1.17	2,458,000
1997	139	\$4.92	1,406,484	\$10.30	631,209	\$31.35	1,631,318	\$152.37	747	\$313.29	6,963	\$0.51	1,380,557	\$1.37	1,352,000
1998	116	\$2.89	2,012,067	\$10.88	381,219	\$31.10	777,066	\$33.16	25,768	\$277.25	27,217	\$0.49	3,894,321	\$1.03	11,044,000
1999	120	\$3.79	3,340,657	\$11.21	771,540	\$28.54	2,244,177	\$36.43	104,901	\$323.92	31,775	\$0.45	4,796,081	\$1.12	1,444,000
2000	128	\$3.98	1,243,116	\$11.57	326,081	\$31.69	1,362,950	\$103.02	50,543	\$279.99	20,320	\$0.51	2,544,716	\$1.15	0
2001	129	\$2.81	5,030,996	\$11.08	704,391	\$32.01	1,938,378	\$117.65	24,233	\$359.38	24,836	\$0.41	7,973,186	\$1.17	9,170,000
2002	139	\$5.53	809,083	\$10.45	333,687	\$33.51	1,204,308	\$106.89	13,872	\$326.47	8,999	\$0.54	1,485,535	\$0.94	5,842,000
2003	145	\$5.39	1,924,839	\$10.26	739,709	\$34.78	1,823,518	\$87.75	132,901	\$380.84	47,445	\$0.50	7,536,245	\$1.13	5,478,400
2004	170	\$7.23	1,719,277	\$12.78	486,830	\$40.59	1,284,000	\$132.02	18,714	\$328.12	15,141	\$0.86	1,979,940	\$1.31	145,600
2005	176	\$5.61	4,155,185	\$12.82	663,167	\$42.64	1,558,151	\$118.36	108,956	\$419.25	38,012	\$0.91	5,105,718	\$1.50	4,300,380
2006	228	\$6.10	2,235,753	\$12.49	448,026	\$57.12	1,050,210	\$279.28	7,612	\$475.88	14,737	\$0.98	5,208,579	\$2.67	236,000
2007	230	\$6.31	1,717,938	\$15.15	737,708	\$61.36	1,212,649	\$140.65	66,559	\$567.75	20,553	\$1.15	5,313,761	\$1.70	1,800,000
2008	241	\$8.85	5,354,342	\$13.61	1,158,940	\$66.08	1,309,501	\$206.33	38,370	\$497.33	39,501	\$1.11	6,683,180	\$2.73	6,976,400
2009	223	\$6.69	909,988	\$14.61	599,499	\$67.44	1,273,739	\$133.62	43,001	\$460.54	20,688	\$0.69	2,285,755	\$1.41	3,625,000
2010	232	\$7.25	2,310,707	\$12.75	891,964	\$63.44	1,113,530	\$142.75	123,564	\$572.21	43,248	\$0.92	8,701,715	\$1.58	6,761,500
2011	245	\$9.25	1,912,622	\$15.73	695,521	\$66.17	876,762	\$168.20	47,726	\$489.26	42,534	\$0.87	7,859,554	\$1.90	5,757,309
2012	258	\$7.45	1,190,845	\$15.73	279,475	\$80.15	429,922	\$174.21	7,682	\$492.72	19,892	\$0.92	2,964,656	\$1.50	1,100,000
2013	243	\$5.42	849,757	\$15.09	228,195	\$71.34	725,570	\$304.91	637	\$493.10	9,703	\$0.96	1,842,253	\$1.50	0
2014	328	\$18.16	859,575	\$19.02	408,603	\$78.51	635,510	\$183.62	55,666	\$623.25	37,751	\$1.01	6,492,142	\$2.52	2,882,558
2015	293	\$10.24	804,303	\$19.18	227,274	\$77.25	571,661	\$182.50	41,780	\$732.51	6,760	\$1.21	1,002,312	\$1.50	0
2016															
YTD	348	\$23.12	90,653	\$21.74	128,014	\$75.21	654,254	\$167.10	29,980	\$725.14	400	\$1.21	191,430	\$1.50	0

WSDOT Data through June 2016

The quantities shown in this table represent only quantities of the standard items used to calculate the Construction Cost Index and are not intended to represent the overall quantities of items awarded yearly by WSDOT

Unit bid prices for years when an item was not awarded were calculated by averaging the unit bid price of the year before and the year after

Note: WSDOT 2003 and 2004 CCI data points adjusted to correct for spiking bid prices on structural steel

