CITY COST INDEXES

DIVISION		ILLINOIS						INDIANA											
		ROCKFORD			SPRINGFIELD			ANDERSON			EVANSVILLE			FORT WAYNE			GARY		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	91.1	95.1	94.1	91.0	95.3	94.3	79.0	97.6	93.3	81.5	132.3	120.6	79.4	97.1	93.0	79.3	98.0	93.6
031	CONCRETE FORMWORK	104.9	103.0	103.3	104.7	88.0	90.6	89.2	80.1	81.6	91.6	81.5	83.1	87.0	79.1	80.4	89.4	93.5	92.9
032	CONCRETE REINFORCEMENT	91.2	162.1	131.2	91.2	129.6	112.9	97.8	85.2	90.7	98.9	78.0	87.1	97.8	74.0	84.4	97.8	84.3	90.2
033	CAST IN PLACE CONCRETE	94.3	108.4	100.4	92.4	91.9	92.2	104.4	80.1	93.8	99.0	88.5	94.4	113.7	75.1	96.9	106.1	97.3	102.3
3	CONCRETE	87.1	116.3	101.9	86.2	97.9	92.1	97.5	81.6	89.5	102.7	83.3	92.9	101.6	77.3	89.3	98.3	93.2	95.8
4	MASONRY	82.2	107.8	98.1	69.8	89.3	81.9	98.8	76.8	85.1	88.9	81.2	84.1	95.6	81.4	86.7	100.1	94.5	96.6
5	METALS	95.4	127.1	107.6	95.4	113.1	102.2	100.0	89.3	95.9	89.2	83.0	86.8	100.0	84.8	94.1	100.0	91.1	96.5
6	WOOD & PLASTICS	103.3	99.0	101.2	103.1	85.6	94.4	99.0	80.0	89.6	92.3	80.8	86.6	96.2	79.0	87.7	97.7	93.2	95.5
7	THERMAL & MOISTURE PROTECTION	99.3	104.3	101.7	99.3	93.0	96.3	100.7	80.6	91.3	101.1	84.7	93.4	99.9	81.6	91.4	100.5	96.2	98.5
8	DOORS & WINDOWS	100.6	109.9	102.8	100.6	93.0	98.8	100.4	78.7	95.2	97.7	78.4	93.1	100.4	73.4	93.9	100.4	85.4	96.8
092	LATH, PLASTER & GYPSUM BOARD	96.9	98.5	98.0	96.9	84.7	88.7	108.3	80.0	89.5	110.1	78.8	89.2	101.8	79.0	86.6	103.1	93.7	96.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	79.8	98.5	91.9	79.8	84.7	82.9	92.1	80.0	84.3	100.0	78.8	86.3	92.1	79.0	83.7	92.1	93.7	93.1
096	FLOORING & CARPET	95.4	91.3	94.5	95.4	86.4	93.3	97.4	74.5	92.0	99.1	82.2	95.2	97.4	89.2	95.5	97.4	101.4	98.3
099	PAINTING & WALL COVERINGS	77.8	90.8	85.4	77.8	84.5	81.7	90.3	69.0	78.0	97.6	82.8	89.1	90.3	75.2	81.5	90.3	87.4	88.6
9	FINISHES	88.0	98.6	93.4	88.1	86.7	87.4	96.3	77.8	86.9	98.3	81.8	89.9	95.3	80.8	87.9	95.6	94.5	95.1
10-14	TOTAL DIV. 10-14	100.0	112.4	102.7	100.0	97.6	99.5	100.0	85.1	96.8	100.0	90.8	98.0	100.0	91.1	98.1	100.0	97.9	99.5
15	MECHANICAL	100.3	93.4	97.3	100.3	87.7	94.9	100.0	83.1	92.6	100.2	80.4	91.6	100.0	79.1	90.9	100.0	90.3	95.8
16	ELECTRICAL	102.9	83.7	90.1	102.9	81.2	88.5	83.8	93.0	89.9	99.4	82.3	88.1	84.3	85.8	85.3	91.3	95.0	93.8
1-16	WEIGHTED AVERAGE	95.7	101.6	98.6	94.9	91.7	93.4	97.4	85.1	91.5	97.2	87.2	92.3	97.6	82.9	90.5	98.1	93.4	95.8

DIVISION		INDIANA												IOWA					
		INDIANAPOLIS			MUNCIE			SOUTH BEND			TERRE HAUTE			CEDAR RAPIDS			DAVENPORT		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	79.2	99.1	94.5	75.3	97.4	92.3	79.3	97.2	93.1	82.5	132.4	120.9	77.4	92.8	89.2	76.6	96.7	92.1
031	CONCRETE FORMWORK	89.6	89.0	89.1	88.7	80.0	81.4	94.4	80.7	82.8	93.5	81.5	83.4	104.6	76.4	80.8	104.2	79.4	83.3
032	CONCRETE REINFORCEMENT	97.1	85.2	90.4	99.9	85.2	91.6	97.8	70.9	82.7	98.9	76.0	85.9	90.8	76.2	82.6	90.8	79.8	84.6
033	CAST IN PLACE CONCRETE	98.7	87.3	93.7	113.2	78.9	98.3	104.8	85.2	96.3	95.2	91.7	93.7	103.7	76.7	92.0	100.9	82.0	92.7
3	CONCRETE	99.4	86.8	93.0	100.7	81.1	90.8	93.6	82.0	87.7	102.4	84.0	93.1	92.8	76.9	84.8	91.5	80.8	86.1
4	MASONRY	107.0	86.9	94.4	95.3	76.7	83.7	93.8	78.7	84.4	95.0	80.6	86.0	101.9	77.6	86.8	101.2	76.4	85.8
5	METALS	101.6	72.4	90.3	96.9	88.6	93.7	100.0	99.3	99.7	89.9	81.3	86.6	86.8	82.7	85.2	86.8	85.2	86.2
6	WOOD & PLASTICS	97.0	89.6	93.3	99.2	80.0	89.7	99.4	81.4	90.5	95.4	81.7	88.6	106.5	75.9	91.4	106.5	79.5	93.2
7	THERMAL & MOISTURE PROTECTION	99.4	89.0	94.5	99.4	80.8	90.7	100.4	84.2	92.8	101.2	82.1	92.3	97.0	75.4	86.9	96.5	78.9	88.3
8	DOORS & WINDOWS	105.3	85.6	100.6	100.5	78.8	95.3	94.6	73.0	89.4	98.3	78.5	93.6	104.9	75.5	97.9	104.9	77.6	98.4
092	LATH, PLASTER & GYPSUM BOARD	103.0	89.9	94.3	108.6	80.0	89.6	107.6	81.4	90.2	110.1	79.7	89.9	104.9	75.5	85.3	104.9	78.9	87.6
095	ACOUSTICAL TREATMENT & WOOD FLOORING	90.6	89.9	90.2	88.9	80.0	83.2	92.1	81.4	85.2	100.0	79.7	86.9	106.3	75.5	86.5	106.3	78.9	88.7
096	FLOORING & CARPET	97.2	100.2	97.9	98.4	74.5	92.8	97.4	68.7	90.7	99.1	88.0	96.5	136.8	78.5	123.1	122.0	66.6	109.0
099	PAINTING & WALL COVERINGS	90.3	85.8	87.7	91.1	69.0	78.3	90.3	70.8	79.0	97.6	83.4	89.4	124.7	76.5	96.9	120.4	82.7	98.6
9	FINISHES	95.7	91.1	93.3	95.7	77.8	86.6	96.2	77.5	86.7	98.3	83.2	90.6	114.7	76.4	95.2	109.4	77.4	93.1
10-14	TOTAL DIV. 10-14	100.0	87.6	97.3	100.0	85.0	96.7	100.0	83.1	96.3	100.0	90.3	97.9	100.0	82.4	96.2	100.0	83.9	96.5
15	MECHANICAL	100.0	88.8	95.1	99.9	83.0	92.6	100.0	73.5	88.5	100.2	77.5	90.3	100.0	79.5	91.1	100.0	74.8	89.1
16	ELECTRICAL	102.4	92.9	96.1	90.9	84.4	86.6	97.5	83.5	88.2	94.4	84.9	88.1	92.6	81.9	85.5	89.4	76.4	80.8
1-16	WEIGHTED AVERAGE	100.2	88.7	94.6	97.5	83.5	90.8	97.1	82.7	90.1	97.3	87.0	92.3	98.3	80.4	89.7	97.3	80.0	88.9

DIVISION		IOWA									KANSAS						KENTUCKY		
		DES MOINES			SIOUX CITY			WATERLOO			TOPEKA			WICHITA			LEXINGTON		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	70.0	97.8	91.4	84.4	95.1	92.6	76.5	94.8	90.6	89.6	92.4	91.7	90.2	94.7	93.7	75.2	104.6	97.8
031	CONCRETE FORMWORK	106.2	75.6	80.4	104.6	60.3	67.2	104.6	66.6	72.5	102.9	60.4	67.0	98.6	60.7	66.6	94.0	73.4	76.6
032	CONCRETE REINFORCEMENT	90.8	69.2	78.6	90.8	55.7	71.0	90.8	69.4	78.7	91.2	90.8	91.0	91.2	90.7	90.9	98.9	86.4	91.8
033	CAST IN PLACE CONCRETE	102.2	77.3	91.4	104.0	63.4	86.4	100.3	60.2	82.9	94.4	68.8	83.3	84.6	68.3	77.5	96.3	80.3	89.4
3	CONCRETE	92.2	75.5	83.8	93.0	61.5	77.1	91.2	65.7	78.3	87.0	70.7	78.8	82.1	70.6	76.3	93.6	78.7	86.1
4	MASONRY	94.6	81.2	86.3	95.8	56.9	71.6	95.6	64.1	76.0	96.5	68.0	78.8	93.8	61.0	73.3	94.5	65.0	76.2
5	METALS	86.8	81.5	84.7	86.8	74.0	81.9	86.8	79.7	84.1	95.4	98.0	96.4	95.4	97.0	96.0	94.3	87.4	91.7
6	WOOD & PLASTICS	108.5	74.2	91.6	106.5	61.2	84.1	106.5	68.9	87.9	98.8	58.2	78.7	95.5	61.1	78.5	95.4	74.3	84.9
7	THERMAL & MOISTURE PROTECTION	96.8	78.2	88.1	96.4	62.4	80.5	96.0	62.3	80.2	99.9	74.9	88.2	99.4	67.0	84.3	101.4	73.3	88.3
8	DOORS & WINDOWS	104.9	70.9	96.8	104.9	60.8	94.4	100.0	70.1	92.9	100.6	66.2	92.4	100.6	66.7	92.5	98.3	75.3	92.8
092	LATH, PLASTER & GYPSUM BOARD	104.9	73.5	84.0	104.9	60.0	75.0	104.9	68.0	80.3	96.9	56.3	69.9	96.9	59.4	71.9	110.1	72.0	84.7
095	ACOUSTICAL TREATMENT & WOOD FLOORING	106.3	73.5	85.2	106.3	60.0	76.5	106.3	68.0	81.6	79.8	56.3	64.7	79.8	59.4	66.6	100.0	72.0	82.0
096	FLOORING & CARPET	122.0	58.5	107.1	122.0	59.9	107.4	123.1	83.1	113.7	96.4	66.1	89.3	95.4	71.1	89.7	100.0	58.8	90.3
099	PAINTING & WALL COVERINGS	120.4	77.3	95.5	120.4	56.6	83.5	120.4	50.7	80.1	77.8	69.5	73.0	77.8	64.6	70.2	97.6	62.8	77.5
9	FINISHES	108.6	72.4	90.2	110.2	59.7	84.5	109.7	68.4	88.7	88.2	61.3	74.5	88.1	62.5	75.1	98.7	69.1	83.6
10-14	TOTAL DIV. 10-14	100.0	83.8	96.5	100.0	77.0	95.0	100.0	78.1	95.2	100.0	82.8	96.3	100.0	76.5	94.9	100.0	90.4	97.9
15	MECHANICAL	100.0	81.7	92.0	100.0	59.2	82.3	100.0	65.5	85.0	100.3	70.9	87.6	100.3	68.1	86.4	100.2	66.4	85.5
16	ELECTRICAL	92.6	81.7	85.3	92.6	70.0	77.6	92.6	60.7	71.4	102.9	76.6	85.4	101.2	73.3	82.7	94.8	72.6	80.1
1-16	WEIGHTED AVERAGE	97.0	80.8	89.2	97.7	66.8	82.8	96.6	69.7	83.6	96.4	75.2	86.1	95.5	73.4	84.8	96.7	76.3	86.9

CITY COST INDEXES

DIVISION		KENTUCKY			LOUISIANA												MAINE		
		LOUISVILLE			BATON ROUGE			LAKE CHARLES			NEW ORLEANS			SHREVEPORT			LEWISTON		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	66.1	101.8	93.6	100.9	87.2	90.4	101.6	86.9	90.3	100.9	90.2	92.7	103.9	83.4	88.1	93.1	103.6	101.2
031	CONCRETE FORMWORK	92.2	76.1	78.6	96.4	65.2	70.0	95.8	57.3	63.3	94.3	74.0	77.2	99.8	60.8	66.9	95.4	89.9	90.7
032	CONCRETE REINFORCEMENT	98.9	86.7	92.0	100.2	65.8	80.8	100.2	65.6	80.7	100.2	68.1	82.1	99.2	64.9	79.9	121.9	107.1	113.6
033	CAST IN PLACE CONCRETE	85.7	76.2	81.6	91.9	64.9	80.2	97.3	66.8	84.1	96.3	68.4	84.2	92.7	64.4	80.4	98.8	78.2	89.9
3	CONCRETE	88.5	78.5	83.5	90.5	66.0	78.1	93.0	63.3	78.0	92.4	71.5	81.9	87.5	63.8	75.5	113.1	88.3	100.6
4	MASONRY	93.0	76.4	82.6	102.6	70.8	82.8	102.4	71.2	83.0	102.2	66.2	79.8	94.3	55.4	70.1	100.2	67.1	79.6
5	METALS	94.3	86.5	91.3	96.2	79.1	89.6	95.8	79.1	89.4	98.3	80.3	91.4	89.4	77.7	84.9	106.0	83.2	97.2
6	WOOD & PLASTICS	97.5	75.6	86.6	98.8	66.0	82.6	96.4	54.9	75.9	91.8	76.1	84.0	99.2	62.8	81.2	100.6	92.6	96.6
7	THERMAL & MOISTURE PROTECTION	91.2	80.0	86.0	90.8	70.9	81.5	92.8	69.6	82.0	93.6	72.1	83.6	90.5	62.5	77.4	98.9	68.2	84.6
8	DOORS & WINDOWS	98.3	76.6	93.1	102.4	66.0	93.7	102.4	62.1	92.8	101.0	77.3	95.3	98.1	64.6	90.1	103.4	81.8	98.3
092	LATH, PLASTER & GYPSUM BOARD	110.1	74.9	86.6	95.2	65.9	75.7	95.2	54.5	68.1	93.9	76.4	82.2	94.5	62.6	73.3	105.2	91.1	95.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	100.0	74.9	83.8	85.6	65.9	72.9	85.6	54.5	65.6	85.6	76.4	79.7	96.3	62.6	74.6	99.8	91.1	94.2
096	FLOORING & CARPET	98.2	74.4	92.6	114.9	81.3	107.0	114.9	71.0	104.6	115.4	64.2	103.4	121.4	61.6	107.4	94.2	59.0	88.9
099	PAINTING & WALL COVERINGS	97.6	78.6	86.6	96.0	65.0	78.1	96.0	59.9	75.1	98.1	69.6	81.6	99.2	56.7	74.6	93.4	45.2	65.5
9	FINISHES	97.8	75.6	86.5	101.4	68.2	84.5	101.4	59.5	80.1	101.5	71.8	86.4	104.8	60.4	82.2	96.1	79.6	87.7
10-14	TOTAL DIV. 10-14	100.0	88.3	97.5	100.0	73.4	94.2	100.0	72.2	94.0	100.0	76.0	94.8	100.0	71.5	93.8	100.0	92.4	98.3
15	MECHANICAL	100.2	83.2	92.8	99.9	60.2	82.7	99.9	63.7	84.2	99.9	69.9	86.9	100.0	59.3	82.3	99.9	80.5	91.5
16	ELECTRICAL	96.0	88.3	90.9	98.1	72.1	80.8	98.1	103.6	101.8	96.5	73.8	81.4	97.2	71.3	80.0	104.7	63.7	77.4
1-16	WEIGHTED AVERAGE	95.5	83.8	89.8	98.5	70.3	84.9	98.8	74.4	87.0	98.7	74.2	86.9	96.6	66.4	82.0	102.5	80.1	91.7

DIVISION		MAINE			MARYLAND			MASSACHUSETTS											
		PORTLAND			BALTIMORE			BOSTON			BROCKTON			FALL RIVER			LAWRENCE		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	92.5	103.6	101.1	96.2	87.4	89.4	102.4	108.1	106.8	99.7	106.7	105.1	99.0	106.8	105.0	100.9	106.7	105.4
031	CONCRETE FORMWORK	95.4	89.9	90.7	100.5	77.0	80.7	101.7	150.5	142.9	101.4	136.0	130.6	101.4	128.3	124.1	101.3	133.8	128.8
032	CONCRETE REINFORCEMENT	121.9	107.1	113.6	99.4	84.4	90.9	120.5	152.1	138.3	121.9	151.9	138.8	121.9	138.3	131.1	120.8	125.5	123.4
033	CAST IN PLACE CONCRETE	93.6	78.2	86.9	116.5	79.3	100.3	120.6	146.4	131.8	110.6	144.1	125.2	110.6	145.3	125.7	114.0	145.7	127.8
3	CONCRETE	110.7	88.3	99.4	109.5	80.7	94.9	127.1	147.7	137.5	122.0	140.6	131.4	122.0	135.1	128.6	123.4	136.2	129.4
4	MASONRY	97.5	67.1	78.6	92.0	75.3	81.6	121.4	151.6	140.2	115.6	149.7	136.8	115.6	150.2	137.1	115.3	142.3	132.1
5	METALS	106.1	83.2	97.2	94.2	102.3	97.3	109.2	126.7	116.0	105.9	126.1	113.7	105.9	120.7	111.6	103.2	114.9	107.7
6	WOOD & PLASTICS	100.6	92.6	96.6	96.7	79.5	88.2	105.6	151.8	128.4	104.8	133.5	119.0	104.8	123.5	114.0	104.8	130.6	117.5
7	THERMAL & MOISTURE PROTECTION	98.9	68.2	84.6	92.2	80.3	86.6	99.5	151.8	123.9	99.2	147.0	121.6	99.2	141.3	118.9	99.2	145.0	120.6
8	DOORS & WINDOWS	103.4	81.8	98.3	92.1	85.9	90.6	99.1	153.4	112.1	99.1	141.5	109.2	99.1	129.5	106.3	99.1	132.3	107.0
092	LATH, PLASTER & GYPSUM BOARD	105.2	91.1	95.8	99.2	79.8	86.3	105.2	152.7	136.8	105.2	133.4	124.0	105.2	122.6	116.8	105.2	130.4	122.0
095	ACOUSTICAL TREATMENT & WOOD FLOORING	99.8	91.1	94.2	88.8	79.8	83.0	99.8	152.7	133.9	99.8	133.4	121.5	99.8	122.6	114.5	99.8	130.4	119.5
096	FLOORING & CARPET	94.2	59.0	85.9	83.8	78.7	82.6	94.1	153.5	108.0	94.2	153.5	108.1	94.2	153.5	108.1	94.2	153.5	108.1
099	PAINTING & WALL COVERINGS	93.4	45.2	65.5	99.2	80.1	88.1	94.2	148.2	125.4	93.5	134.3	117.1	93.5	134.3	117.1	93.5	134.3	117.1
9	FINISHES	96.1	79.6	87.7	87.3	77.4	82.3	95.9	151.5	124.2	96.0	139.3	118.0	96.0	133.5	115.1	96.0	137.6	117.1
10-14	TOTAL DIV. 10-14	100.0	92.4	98.3	100.0	81.2	95.9	100.0	134.6	107.5	100.0	132.9	107.1	100.0	132.6	107.1	100.0	132.5	107.1
15	MECHANICAL	99.9	80.5	91.5	99.9	80.4	91.4	99.9	131.3	113.5	99.9	96.4	98.4	99.9	99.2	99.6	99.9	113.9	106.0
16	ELECTRICAL	104.7	63.7	77.4	93.5	96.9	95.8	99.8	135.1	123.3	99.8	110.1	106.6	99.8	103.1	102.0	104.7	116.9	112.8
1-16	WEIGHTED AVERAGE	102.1	80.1	91.5	96.7	85.3	91.2	105.2	137.4	120.8	103.7	123.0	113.0	103.7	119.8	111.5	103.9	124.3	113.8

DIVISION		MASSACHUSETTS															MICHIGAN		
		LOWELL			NEW BEDFORD			PITTSFIELD			SPRINGFIELD			WORCESTER			ANN ARBOR		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	100.2	106.7	105.2	99.4	106.8	105.1	101.1	105.8	104.7	100.2	105.9	104.6	100.4	106.6	105.1	87.0	89.7	89.0
031	CONCRETE FORMWORK	97.4	133.8	128.1	101.4	127.8	123.7	97.4	113.0	110.6	97.6	122.1	118.3	97.6	127.1	122.5	95.5	111.8	109.3
032	CONCRETE REINFORCEMENT	121.9	132.9	128.1	121.9	138.2	131.1	101.2	128.7	116.7	121.9	129.8	126.4	121.9	138.2	131.1	99.7	146.8	126.3
033	CAST IN PLACE CONCRETE	106.4	145.8	123.5	108.3	145.2	124.3	114.0	108.0	111.4	106.4	113.4	109.4	107.8	117.6	112.1	97.6	124.4	109.3
3	CONCRETE	113.7	136.2	125.1	120.9	134.8	128.0	114.4	113.4	113.9	113.7	119.4	116.6	114.4	124.7	119.6	87.0	122.9	105.1
4	MASONRY	100.8	146.6	129.3	115.5	150.2	137.1	101.3	115.9	110.4	100.8	118.4	111.7	100.9	146.6	129.4	110.2	115.0	113.2
5	METALS	103.1	112.1	106.6	105.9	120.3	111.4	102.9	108.7	105.2	105.8	109.4	107.2	105.8	115.7	109.6	96.1	126.1	107.7
6	WOOD & PLASTICS	103.2	130.4	116.6	104.8	123.5	114.0	103.2	110.5	106.8	103.2	121.3	112.1	103.2	123.8	113.4	93.8	112.2	102.9
7	THERMAL & MOISTURE PROTECTION	99.0	146.0	121.0	99.2	141.3	118.9	99.0	119.1	108.4	99.0	121.7	109.6	99.0	135.8	116.2	96.7	110.5	102.6
8	DOORS & WINDOWS	103.4	132.3	110.3	99.1	123.0	104.8	103.4	113.8	105.9	103.4	120.0	107.4	103.4	134.3	110.8	94.0	106.0	96.9
092	LATH, PLASTER & GYPSUM BOARD	105.2	130.2	121.9	105.2	122.6	116.8	105.2	109.6	108.1	105.2	120.8	115.6	105.2	123.4	117.3	115.9	110.1	112.0
095	ACOUSTICAL TREATMENT & WOOD FLOORING	99.8	130.2	119.4	99.8	122.6	114.5	99.8	109.6	106.1	99.8	120.8	113.3	99.8	123.4	115.0	100.2	110.1	106.5
096	FLOORING & CARPET	94.2	153.5	108.1	94.2	145.6	106.2	94.2	110.4	98.0	94.2	110.4	98.0	94.2	124.4	101.3	93.4	114.4	98.3
099	PAINTING & WALL COVERINGS	93.4	130.0	114.6	93.5	95.4	94.6	93.4	102.7	98.8	93.4	102.7	98.8	93.4	103.0	98.9	94.7	101.4	98.6
9	FINISHES	95.9	137.0	116.8	96.0	127.6	112.1	95.9	111.2	103.7	95.9	118.1	107.2	95.9	124.0	110.2	98.4	111.3	105.4
10-14	TOTAL DIV. 10-14	100.0	132.5	107.1	100.0	132.6	107.1	100.0	118.0	103.9	100.0	120.5	104.5	100.0	123.4	106.1	100.0	112.0	102.6
15	MECHANICAL	99.9	113.9	106.0	99.9	99.1	99.6	99.9	104.4	101.9	99.9	106.2	102.6	99.9	99.7	99.8	100.1	96.8	98.2
16	ELECTRICAL	104.7	116.9	112.8	99.8	103.1	102.0	104.7	96.0	98.9	104.7	101.0	102.2	104.7	95.7	98.7	93.3	91.3	92.0
1-16	WEIGHTED AVERAGE	102.4	124.6	113.1	103.6	118.7	110.9	102.6	107.8	105.1	102.8	111.4	107.0	102.9	115.1	108.8	96.6	105.9	101.1

CITY COST INDEXES

DIVISION		MICHIGAN																	
		DEARBORN			DETROIT			FLINT			GRAND RAPIDS			KALAMAZOO			LANSING		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	87.0	89.8	89.2	110.2	90.9	95.4	72.3	89.3	85.4	81.4	90.2	88.2	82.0	90.3	88.4	94.8	88.7	90.1
031	CONCRETE FORMWORK	95.8	116.2	113.0	98.4	116.3	113.5	97.1	108.8	107.0	97.3	79.2	82.0	95.7	94.2	94.4	99.3	89.3	90.8
032	CONCRETE REINFORCEMENT	99.7	147.2	126.5	99.0	147.1	126.1	99.7	146.2	125.9	98.9	100.2	99.6	98.9	100.5	99.8	99.7	145.8	125.7
033	CAST IN PLACE CONCRETE	97.6	125.0	109.5	107.2	125.0	114.9	103.4	104.1	103.7	98.5	100.7	99.4	99.9	103.6	101.5	95.2	94.1	94.7
3	CONCRETE	87.0	125.0	106.2	91.5	123.4	107.6	89.8	114.4	102.2	94.9	90.0	92.4	97.5	97.5	97.5	86.2	102.4	94.4
4	MASONRY	110.2	123.3	118.4	108.8	123.3	117.9	110.6	99.8	103.9	98.1	70.6	81.0	100.5	75.7	85.1	101.0	85.6	91.4
5	METALS	96.1	127.1	108.1	96.7	101.9	98.7	96.1	124.8	107.2	95.2	86.3	91.8	95.5	87.4	92.4	95.2	123.4	106.1
6	WOOD & PLASTICS	93.8	115.5	104.5	96.9	115.5	106.1	93.8	112.2	102.9	97.3	76.9	87.2	95.4	95.6	95.5	98.0	91.6	94.8
7	THERMAL & MOISTURE PROTECTION	95.8	121.9	108.0	94.0	121.9	107.0	94.9	99.4	97.0	96.5	74.3	86.2	96.5	83.3	90.3	95.0	84.2	89.9
8	DOORS & WINDOWS	94.0	108.2	97.4	93.6	114.6	98.6	94.0	110.1	97.9	92.6	73.3	88.0	92.6	84.7	90.7	94.0	96.0	94.5
092	LATH, PLASTER & GYPSUM BOARD	115.9	113.5	114.3	115.9	113.5	114.3	115.9	110.1	112.0	110.1	69.2	82.9	110.1	88.6	95.8	115.9	88.8	97.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	100.2	113.5	108.8	100.2	113.5	108.8	100.2	110.1	106.5	100.0	69.2	80.1	100.0	88.6	92.6	100.2	88.8	92.8
096	FLOORING & CARPET	93.1	113.0	97.8	93.3	113.0	97.9	93.4	94.1	93.6	98.4	57.8	88.9	98.4	67.0	91.0	93.4	81.0	90.5
099	PAINTING & WALL COVERINGS	94.7	116.5	107.3	96.9	116.5	108.2	94.7	79.3	85.8	97.6	60.3	76.0	97.6	70.5	82.0	94.7	91.1	92.6
9	FINISHES	99.3	115.5	107.6	100.3	115.5	108.1	98.7	103.2	101.0	98.1	72.2	84.9	98.1	86.4	92.1	99.8	87.6	93.6
10-14	TOTAL DIV. 10-14	100.0	113.8	103.0	100.0	113.8	103.0	100.0	106.9	101.5	100.0	106.9	101.5	100.0	113.5	102.9	100.0	103.8	100.8
15	MECHANICAL	100.1	111.3	105.0	100.1	111.4	105.0	100.1	94.3	97.6	100.2	74.7	89.1	100.2	87.6	94.7	100.1	73.7	88.6
16	ELECTRICAL	93.3	111.2	105.2	93.3	111.1	105.1	93.3	93.6	93.5	94.8	52.7	66.8	94.8	71.2	79.1	93.3	86.7	88.9
1-16	WEIGHTED AVERAGE	96.6	114.3	105.2	97.8	112.1	104.7	96.4	102.0	99.1	96.5	75.8	86.5	97.0	85.7	91.5	96.2	90.7	93.5

DIVISION		MICHIGAN			MINNESOTA									MISSISSIPPI					
		SAGINAW			DULUTH			MINNEAPOLIS			ROCHESTER			BILOXI			JACKSON		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	74.0	89.0	85.5	77.7	102.6	96.9	77.7	105.8	99.3	77.6	102.3	96.6	110.6	86.1	91.8	110.3	86.0	91.6
031	CONCRETE FORMWORK	96.0	107.0	105.3	98.7	97.8	97.9	98.8	126.7	122.3	98.7	100.3	100.1	101.1	50.9	58.7	95.0	52.7	59.3
032	CONCRETE REINFORCEMENT	99.7	145.7	125.6	92.9	98.1	95.8	93.1	124.1	110.6	92.9	123.2	110.0	93.3	58.4	73.6	93.3	55.8	72.2
033	CAST IN PLACE CONCRETE	99.5	101.9	100.6	108.6	97.6	103.8	107.1	116.9	111.4	106.9	91.1	100.0	99.3	56.1	80.5	97.3	53.8	78.4
3	CONCRETE	87.9	112.8	100.5	95.2	98.1	96.7	95.9	122.3	109.3	94.4	101.8	98.1	90.8	56.3	73.4	89.4	55.8	72.4
4	MASONRY	112.2	88.4	97.4	110.1	89.9	97.5	110.2	120.9	116.9	110.0	87.2	95.9	82.0	47.2	60.3	84.4	47.6	61.5
5	METALS	96.2	123.5	106.7	93.7	102.7	97.1	95.7	116.5	103.7	93.5	114.1	101.5	97.9	86.7	93.6	97.8	85.5	93.1
6	WOOD & PLASTICS	93.8	112.2	102.9	101.9	99.9	100.9	101.9	127.2	114.4	101.9	103.5	102.7	101.2	51.9	76.9	93.6	54.2	74.1
7	THERMAL & MOISTURE PROTECTION	94.9	95.4	95.1	96.3	94.2	95.3	96.5	122.9	108.8	96.4	94.3	95.5	96.5	55.3	77.3	96.4	53.3	76.2
8	DOORS & WINDOWS	94.0	103.6	96.3	99.8	98.0	99.4	100.8	127.2	107.1	99.8	108.1	101.8	96.3	53.9	86.2	96.7	53.5	86.4
092	LATH, PLASTER & GYPSUM BOARD	115.9	110.1	112.0	94.8	100.7	98.7	94.8	128.8	117.5	94.8	104.4	101.2	105.9	51.0	69.3	105.9	53.3	70.9
095	ACOUSTICAL TREATMENT & WOOD FLOORING	100.2	110.1	106.5	77.4	100.7	92.4	77.4	128.8	110.5	77.4	104.4	94.8	98.1	51.0	67.7	98.1	53.3	69.3
096	FLOORING & CARPET	93.4	75.8	89.3	121.6	83.8	112.7	118.8	100.1	114.4	121.6	99.7	116.4	111.9	56.4	98.9	111.9	55.8	98.8
099	PAINTING & WALL COVERINGS	94.7	83.2	88.1	113.5	93.0	101.7	122.4	113.2	117.1	117.6	91.7	102.6	101.0	48.8	70.8	101.0	48.0	70.4
9	FINISHES	99.1	99.0	99.0	101.3	95.0	98.1	101.1	120.8	111.1	101.7	99.7	100.7	105.3	51.5	78.0	105.3	52.9	78.7
10-14	TOTAL DIV. 10-14	100.0	105.7	101.2	100.0	97.1	99.4	100.0	108.2	101.8	100.0	96.8	99.3	100.0	71.9	93.9	100.0	72.6	94.1
15	MECHANICAL	100.1	87.2	94.5	99.7	88.6	94.9	99.7	108.8	103.7	99.7	88.1	94.7	100.1	52.4	79.4	100.1	48.5	77.7
16	ELECTRICAL	96.2	92.5	93.8	93.8	77.1	82.7	93.8	106.4	102.2	93.8	91.0	91.9	97.2	58.2	71.3	97.2	54.5	68.8
1-16	WEIGHTED AVERAGE	96.6	98.2	97.4	97.9	92.5	95.3	98.4	114.5	106.2	97.9	96.9	97.4	97.8	60.5	79.8	97.7	59.2	79.1

DIVISION		MISSOURI												MONTANA					
		KANSAS CITY			SPRINGFIELD			ST. JOSEPH			ST. LOUIS			BILLINGS			GREAT FALLS		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	86.9	92.2	91.0	91.3	93.9	93.3	88.2	90.3	89.9	102.4	98.5	99.4	76.6	97.6	92.7	83.7	97.5	94.3
031	CONCRETE FORMWORK	105.6	86.3	89.3	104.9	63.5	69.9	105.5	76.8	81.3	104.5	102.8	103.0	96.9	85.5	87.2	104.6	90.1	92.3
032	CONCRETE REINFORCEMENT	95.8	82.5	88.3	91.2	81.6	85.8	94.6	81.9	87.5	86.9	92.4	90.0	90.9	105.4	99.1	90.8	106.0	99.3
033	CAST IN PLACE CONCRETE	88.9	92.4	90.5	96.3	70.9	85.3	88.9	88.9	88.9	90.8	108.0	98.3	119.5	82.6	103.4	124.3	82.1	106.0
3	CONCRETE	88.0	88.8	88.4	88.0	71.2	79.5	87.8	83.4	85.6	81.8	104.1	93.1	99.5	88.9	94.2	102.4	90.8	96.5
4	MASONRY	103.9	87.5	93.7	87.5	68.5	75.7	103.7	74.1	85.3	95.2	106.0	101.9	119.2	106.5	111.3	114.0	121.4	118.6
5	METALS	98.6	102.4	100.1	95.9	98.2	96.8	97.2	100.7	98.6	95.0	121.6	105.3	95.5	106.4	99.7	95.2	107.1	99.8
6	WOOD & PLASTICS	106.3	84.9	95.7	103.3	61.6	82.7	106.7	76.5	91.8	106.4	101.0	103.8	95.9	83.1	89.6	106.5	86.9	96.8
7	THERMAL & MOISTURE PROTECTION	99.6	90.3	95.3	99.5	69.2	85.3	100.4	82.7	92.1	94.0	99.2	96.4	96.8	92.1	94.6	97.1	96.9	97.0
8	DOORS & WINDOWS	99.0	86.6	96.0	100.6	67.6	92.7	99.7	82.0	95.5	93.5	104.2	96.1	104.7	89.1	100.9	104.9	91.1	101.6
092	LATH, PLASTER & GYPSUM BOARD	97.3	84.0	88.4	96.9	59.9	72.3	101.1	75.3	83.9	96.5	100.7	99.3	104.9	83.0	90.3	104.9	86.9	92.9
095	ACOUSTICAL TREATMENT & WOOD FLOORING	83.0	84.0	83.6	79.8	59.9	67.0	81.5	75.3	77.5	79.8	100.7	93.2	106.3	83.0	91.3	106.3	86.9	93.8
096	FLOORING & CARPET	85.2	92.5	86.9	103.5	70.6	95.8	86.9	58.0	80.2	110.1	97.9	107.2	120.2	69.1	108.2	120.2	82.2	111.3
099	PAINTING & WALL COVERINGS	83.8	90.3	87.6	80.7	77.6	78.9	79.7	67.8	72.8	86.7	103.0	96.1	115.3	81.1	95.5	115.3	80.3	96.1
9	FINISHES	86.6	87.6	87.1	91.0	65.9	78.3	87.1	72.2	79.5	92.4	101.6	97.1	108.4	80.9	94.4	108.4	86.9	97.5
10-14	TOTAL DIV. 10-14	100.0	92.0	98.3	100.0	85.1	96.8	100.0	88.3	97.5	100.0	101.5	100.3	100.0	89.3	97.7	100.0	91.8	98.2
15	MECHANICAL	100.2	89.9	95.7	100.3	64.4	84.8	100.4	75.7	89.7	100.2	105.6	102.5	100.0	94.2	97.5	100.0	87.6	94.6
16	ELECTRICAL	106.2	95.6	99.2	102.9	64.6	77.4	106.2	79.4	88.4	101.8	114.2	110.0	90.8	85.3	87.1	91.4	78.6	82.9
1-16	WEIGHTED AVERAGE	97.2	91.5	94.4	96.5	72.8	85.1	97.3	81.3	89.6	96.4	106.8	100.9	100.3	92.6	96.6	100.7	93.0	97.0

CITY COST INDEXES

DIVISION		NEW YORK									NORTH CAROLINA								
		SYRACUSE			UTICA			YONKERS			CHARLOTTE			DURHAM			GREENSBORO		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	97.6	110.7	107.7	72.5	109.7	101.1	142.7	133.0	135.2	101.8	73.9	80.3	102.1	84.0	88.1	101.7	84.0	88.0
031	CONCRETE FORMWORK	106.6	88.2	91.0	107.6	67.0	73.3	109.0	139.5	134.8	103.0	51.0	59.1	95.6	51.1	58.1	95.7	51.1	58.1
032	CONCRETE REINFORCEMENT	99.0	96.4	97.6	99.0	84.7	91.0	98.2	130.2	116.3	94.6	46.6	67.6	94.6	48.3	68.5	94.6	48.3	68.5
033	CAST IN PLACE CONCRETE	103.2	98.0	100.9	95.3	89.3	92.7	132.1	134.5	133.1	97.3	53.9	78.4	99.5	53.9	79.7	96.3	53.9	77.9
3	CONCRETE	109.4	94.8	102.0	107.7	80.4	93.9	134.1	136.0	135.1	99.7	53.5	76.3	100.1	53.9	76.7	98.6	53.9	76.0
4	MASONRY	103.4	93.2	97.0	95.5	81.5	86.8	119.1	149.1	137.8	84.1	39.3	56.2	82.8	39.3	55.7	82.5	39.3	55.6
5	METALS	99.0	116.2	105.7	97.3	111.3	102.7	109.5	139.4	121.0	95.9	85.3	91.8	96.0	86.0	92.1	96.8	86.0	92.6
6	WOOD & PLASTICS	114.2	86.2	100.4	114.2	63.4	89.1	117.3	137.2	127.1	101.8	52.4	77.4	92.6	52.4	72.7	92.6	52.4	72.7
7	THERMAL & MOISTURE PROTECTION	99.1	96.9	98.1	91.1	89.0	90.1	106.8	141.6	123.1	92.9	46.2	71.1	93.1	47.4	71.8	93.1	47.4	71.8
8	DOORS & WINDOWS	96.8	87.0	94.4	98.5	69.0	91.4	97.0	152.7	110.3	97.0	49.4	85.6	97.0	50.3	85.8	97.0	50.3	85.8
092	LATH, PLASTER & GYPSUM BOARD	108.4	85.3	93.0	108.4	61.7	77.3	122.2	138.3	132.9	95.3	50.5	65.5	95.3	50.5	65.5	95.3	50.5	65.5
095	ACOUSTICAL TREATMENT & WOOD FLOORING	94.9	85.3	88.7	94.9	61.7	73.5	104.7	138.3	126.3	90.3	50.5	64.7	90.3	50.5	64.7	90.3	50.5	64.7
096	FLOORING & CARPET	84.1	86.9	84.8	82.0	86.9	83.1	90.3	129.1	99.4	84.5	37.0	73.3	84.5	37.0	73.3	84.5	37.0	73.3
099	PAINTING & WALL COVERINGS	84.6	84.0	84.3	79.6	84.0	82.1	98.2	128.8	115.9	101.5	51.4	72.5	101.5	51.4	72.5	101.5	51.4	72.5
9	FINISHES	97.2	86.8	91.9	95.5	71.3	83.2	112.8	136.1	124.6	89.4	48.2	68.4	89.5	48.2	68.5	89.5	48.2	68.5
10-14	TOTAL DIV. 10-14	100.0	98.1	99.6	100.0	89.7	97.8	100.0	144.5	109.7	100.0	71.7	93.9	100.0	71.8	93.9	100.0	71.8	93.9
15	MECHANICAL	100.1	91.1	96.2	100.1	80.2	91.5	100.1	135.7	115.5	100.0	58.2	81.9	100.0	58.3	81.9	99.8	58.3	81.8
16	ELECTRICAL	106.6	89.2	95.1	106.6	85.3	92.4	114.9	128.9	124.2	96.3	51.2	66.3	96.3	54.6	68.6	96.3	54.6	68.6
1-16	WEIGHTED AVERAGE	101.1	95.4	98.4	99.3	85.9	92.8	110.3	137.1	123.2	96.6	57.2	77.5	96.5	58.9	78.4	96.4	58.9	78.3

DIVISION		NORTH CAROLINA						NORTH DAKOTA			OHIO								
		RALEIGH			WINSTON-SALEM			FARGO			AKRON			CANTON			CINCINNATI		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	102.1	83.9	88.1	102.1	83.9	88.1	77.2	95.2	91.0	103.0	110.7	108.9	103.0	110.1	108.5	70.7	118.8	107.7
031	CONCRETE FORMWORK	99.2	51.1	58.6	97.1	51.1	58.3	95.6	64.6	69.4	104.2	98.2	99.1	104.2	83.7	86.9	98.1	88.3	89.9
032	CONCRETE REINFORCEMENT	94.6	48.2	68.5	94.6	46.7	67.6	90.8	69.7	78.9	99.4	90.0	94.1	99.4	75.8	86.1	94.1	78.3	85.2
033	CAST IN PLACE CONCRETE	100.0	53.9	80.0	100.0	53.9	80.0	102.3	71.1	88.7	98.5	106.6	102.0	98.5	104.7	101.2	86.2	88.5	87.2
3	CONCRETE	100.6	53.8	77.0	100.5	53.6	76.8	91.4	68.6	79.9	94.7	98.3	96.6	94.7	88.7	91.7	87.2	86.8	87.0
4	MASONRY	90.3	39.3	58.6	82.8	39.3	55.7	103.3	61.6	77.4	95.9	96.7	96.4	96.9	90.8	93.1	77.6	91.8	86.4
5	METALS	96.0	86.0	92.1	95.9	85.4	91.9	92.0	78.8	86.9	92.5	78.2	87.0	92.5	72.0	84.6	92.2	87.9	90.5
6	WOOD & PLASTICS	97.1	52.4	75.0	92.6	52.4	72.7	87.7	64.3	76.1	98.7	98.7	98.7	98.7	82.2	90.6	101.2	86.8	94.1
7	THERMAL & MOISTURE PROTECTION	93.0	46.7	71.4	93.1	47.4	71.8	97.3	64.0	81.7	121.0	98.8	110.6	120.8	94.7	108.6	95.3	91.0	93.3
8	DOORS & WINDOWS	93.8	50.3	83.4	97.0	49.9	85.7	105.8	59.0	94.6	108.8	95.9	105.7	103.1	76.0	96.6	99.7	81.6	95.3
092	LATH, PLASTER & GYPSUM BOARD	95.3	50.5	65.5	95.3	50.5	65.5	117.7	63.5	81.6	112.0	97.4	102.3	112.0	80.4	90.9	101.6	86.9	91.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	90.3	50.5	64.7	90.3	50.5	64.7	138.2	63.5	90.1	100.0	97.4	98.3	100.0	80.4	87.3	100.0	86.9	91.5
096	FLOORING & CARPET	84.5	37.0	73.3	84.5	37.0	73.3	120.7	63.1	107.2	124.0	101.7	118.8	124.0	77.8	113.2	78.5	92.7	81.8
099	PAINTING & WALL COVERINGS	101.5	51.4	72.5	101.5	51.4	72.5	115.3	50.6	77.9	110.0	114.7	112.7	110.0	85.7	95.9	94.7	92.0	93.2
9	FINISHES	89.5	48.2	68.5	89.5	48.2	68.5	116.2	62.7	89.0	109.0	101.0	104.9	109.0	82.5	95.5	90.5	89.6	90.1
10-14	TOTAL DIV. 10-14	100.0	71.8	93.9	100.0	71.8	93.9	100.0	69.5	93.4	100.0	99.3	99.8	100.0	95.9	99.1	100.0	87.8	97.4
15	MECHANICAL	100.0	58.3	81.9	100.0	58.3	81.9	100.2	64.7	84.8	100.2	94.9	97.9	100.2	80.2	91.6	100.0	89.9	95.6
16	ELECTRICAL	96.3	54.6	68.6	96.3	54.6	68.6	92.6	56.7	68.7	98.2	88.2	91.5	98.2	90.5	93.0	93.3	81.6	85.6
1-16	WEIGHTED AVERAGE	96.6	58.9	78.4	96.5	58.8	78.3	99.1	67.7	83.9	100.7	95.5	98.2	100.1	87.2	93.9	93.6	90.7	92.2

DIVISION		OHIO																	
		CLEVELAND			COLUMBUS			DAYTON			LORAIN			SPRINGFIELD			TOLEDO		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	102.7	111.9	109.8	75.7	102.9	96.6	70.4	117.7	106.8	103.0	110.3	108.6	70.8	117.2	106.5	76.0	102.0	96.0
031	CONCRETE FORMWORK	104.3	106.0	105.8	98.1	86.8	88.5	98.0	84.2	86.3	104.2	83.6	86.8	98.0	82.1	84.6	98.1	95.2	95.7
032	CONCRETE REINFORCEMENT	99.8	90.4	94.5	103.4	80.0	90.2	94.1	76.1	84.0	99.4	89.5	93.8	94.1	76.0	83.9	103.4	83.5	92.2
033	CAST IN PLACE CONCRETE	95.7	115.7	104.4	97.7	94.7	96.4	78.6	88.0	82.6	98.5	90.1	94.8	82.4	84.4	83.3	101.5	99.9	100.8
3	CONCRETE	93.5	105.0	99.3	95.2	87.7	91.4	83.7	83.7	83.7	94.7	86.3	90.5	85.4	81.5	83.5	96.9	94.1	95.5
4	MASONRY	101.2	108.6	105.8	85.5	92.6	90.0	77.0	89.7	85.0	92.8	85.0	88.0	77.3	83.4	81.1	97.0	92.3	94.1
5	METALS	93.9	80.8	88.8	94.2	77.9	87.9	91.5	76.6	85.7	93.1	78.0	87.3	91.5	76.2	85.6	94.1	83.3	89.9
6	WOOD & PLASTICS	98.1	104.4	101.2	96.3	85.5	91.0	103.0	83.6	93.4	98.7	82.2	90.6	103.0	84.7	93.9	96.3	97.2	96.7
7	THERMAL & MOISTURE PROTECTION	118.7	109.2	114.2	108.2	91.2	100.2	100.2	86.1	93.6	120.7	94.2	108.3	100.2	82.3	91.8	110.4	96.6	104.0
8	DOORS & WINDOWS	97.4	100.7	98.2	99.9	82.6	95.7	100.0	77.1	94.5	103.1	88.7	99.7	100.0	77.9	94.7	99.9	90.8	97.7
092	LATH, PLASTER & GYPSUM BOARD	111.0	103.4	105.9	101.3	84.6	90.2	101.6	83.5	89.6	112.0	80.4	91.0	101.6	84.6	90.3	101.3	96.7	98.2
095	ACOUSTICAL TREATMENT & WOOD FLOORING	98.5	103.4	101.6	106.5	84.6	92.4	100.0	83.5	89.4	100.0	80.4	87.4	100.0	84.6	90.1	104.8	96.7	99.6
096	FLOORING & CARPET	123.5	106.1	119.4	96.7	89.1	94.9	80.7	79.5	80.4	124.0	88.8	115.8	80.7	79.5	80.4	95.8	80.3	92.2
099	PAINTING & WALL COVERINGS	110.0	117.1	114.1	98.4	96.2	97.1	94.7	88.2	91.0	110.0	117.1	114.1	94.7	65.8	78.0	98.4	82.1	89.0
9	FINISHES	108.5	107.4	107.9	93.2	88.0	90.5	91.3	83.8	87.5	109.0	87.9	98.3	91.3	80.2	85.7	92.6	91.2	91.8
10-14	TOTAL DIV. 10-14	100.0	105.0	101.1	100.0	90.6	98.0	100.0	86.1	97.0	100.0	97.0	99.3	100.0	83.5	96.4	100.0	97.4	99.4
15	MECHANICAL	100.2	102.9	101.4	99.9	91.7	96.4	100.8	79.7	91.6	100.2	73.2	88.5	100.8	72.0	88.3	99.9	93.3	97.0
16	ELECTRICAL	98.1	99.9	99.3	107.5	87.6	94.3	93.2	80.5	84.8	98.2	74.8	82.6	93.2	63.1	73.2	108.9	93.0	98.3
1-16	WEIGHTED AVERAGE	99.6	102.8	101.1	97.1	89.5	93.5	93.5	85.7	89.7	100.0	84.2	92.3	93.8	79.8	87.0	98.1	93.1	95.7

CITY COST INDEXES

DIVISION		OHIO			OKLAHOMA									OREGON					
		YOUNGSTOWN			LAWTON			OKLAHOMA CITY			TULSA			EUGENE			PORTLAND		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	102.7	110.8	109.0	107.7	88.3	92.8	104.7	88.9	92.5	103.8	84.0	88.6	93.7	109.4	105.8	94.8	109.4	106.0
031	CONCRETE FORMWORK	104.2	87.9	90.4	97.8	56.5	63.0	99.9	63.0	68.8	98.5	64.5	69.8	97.8	106.6	105.2	99.3	107.0	105.8
032	CONCRETE REINFORCEMENT	99.4	80.3	88.6	99.2	75.0	85.6	99.2	75.4	85.8	99.2	75.3	85.7	113.5	119.0	116.6	108.5	119.4	114.7
033	CAST IN PLACE CONCRETE	95.7	101.5	98.3	93.9	59.4	78.9	91.8	61.3	78.6	90.5	62.1	78.2	95.7	103.7	99.2	104.1	103.9	104.0
3	CONCRETE	93.5	90.3	91.9	87.9	60.9	74.3	87.1	64.4	75.7	86.4	66.5	76.4	118.6	107.3	112.9	121.9	107.6	114.7
4	MASONRY	96.7	91.3	93.4	93.0	55.5	69.6	94.9	65.1	76.4	91.6	61.4	72.8	117.8	107.1	111.2	118.0	113.8	115.4
5	METALS	92.6	74.6	85.6	97.9	63.2	84.5	97.8	64.0	84.7	98.5	81.5	91.9	96.9	101.6	98.7	95.4	102.4	98.1
6	WOOD & PLASTICS	98.7	86.2	92.6	96.7	56.9	77.0	99.2	63.7	81.7	96.7	65.6	81.3	95.6	106.2	100.8	97.9	106.2	102.0
7	THERMAL & MOISTURE PROTECTION	120.8	92.6	107.6	90.5	62.8	77.5	90.5	67.1	79.6	90.3	66.6	79.2	109.4	98.1	104.1	109.2	104.4	107.0
8	DOORS & WINDOWS	103.1	84.7	98.7	98.1	64.5	90.1	98.1	68.2	91.0	98.1	68.5	91.1	101.9	106.4	103.0	99.1	106.4	100.8
092	LATH, PLASTER & GYPSUM BOARD	112.0	84.5	93.7	94.5	56.8	69.4	94.5	63.8	74.0	94.5	65.6	75.3	96.4	106.3	103.0	95.8	106.3	102.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	100.0	84.5	90.0	96.3	56.8	70.8	96.3	63.8	75.3	96.3	65.6	76.5	139.0	106.3	117.9	139.0	106.3	117.9
096	FLOORING & CARPET	124.0	87.6	115.5	121.4	72.1	109.8	121.4	72.1	109.8	121.4	75.0	110.5	128.4	107.8	123.5	128.4	107.8	123.5
099	PAINTING & WALL COVERINGS	110.0	94.5	101.0	99.2	48.8	70.0	99.2	70.0	82.3	99.2	69.8	82.2	132.1	89.9	107.7	132.1	89.9	107.7
9	FINISHES	109.0	88.3	98.5	105.2	58.1	81.2	105.0	65.2	84.8	104.7	67.0	85.5	127.1	105.2	116.0	127.1	105.2	116.0
10-14	TOTAL DIV. 10-14	100.0	97.2	99.4	100.0	70.2	93.5	100.0	72.4	94.0	100.0	73.3	94.2	100.0	108.7	101.9	100.0	108.8	101.9
15	MECHANICAL	100.2	85.4	93.8	100.0	64.9	84.8	99.8	66.6	85.4	100.0	73.3	88.4	100.2	92.0	96.6	100.2	98.4	99.4
16	ELECTRICAL	98.2	90.5	93.0	97.2	54.5	68.8	97.2	67.7	77.6	97.2	65.4	76.1	99.2	90.6	93.5	99.5	100.4	100.1
1-16	WEIGHTED AVERAGE	100.0	89.8	95.1	97.9	63.1	81.1	97.8	68.4	83.6	97.5	70.6	84.5	105.9	100.8	103.4	105.9	104.5	105.2

DIVISION		PENNSYLVANIA																	
		ALLENTOWN			ERIE			HARRISBURG			PHILADELPHIA			PITTSBURGH			READING		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	96.8	110.6	107.4	96.7	110.5	107.3	84.2	109.0	103.3	119.8	92.9	99.1	95.6	113.1	109.1	116.0	109.0	110.6
031	CONCRETE FORMWORK	106.5	105.6	105.8	104.6	97.3	98.5	96.6	85.2	86.9	107.6	124.7	122.0	105.9	100.2	101.1	107.1	88.4	91.3
032	CONCRETE REINFORCEMENT	99.0	116.1	108.7	98.0	73.4	84.1	99.0	92.8	95.5	101.0	111.0	106.6	100.2	99.2	99.6	99.3	98.1	98.6
033	CAST IN PLACE CONCRETE	96.9	101.1	98.7	96.0	97.4	96.6	88.6	89.2	88.9	122.1	120.0	121.2	101.0	99.3	100.3	84.9	92.1	88.0
3	CONCRETE	105.1	107.5	106.3	93.0	94.3	93.7	100.2	90.0	95.1	116.4	120.3	118.4	96.3	101.4	98.9	98.9	93.5	96.2
4	MASONRY	100.8	99.9	100.2	93.3	91.6	92.2	99.3	84.5	90.1	98.3	121.3	112.6	96.6	102.9	100.6	99.8	86.7	91.6
5	METALS	97.2	133.2	111.1	91.4	111.6	99.2	99.0	121.4	107.6	98.7	120.7	107.2	94.5	126.5	106.9	95.9	124.1	106.8
6	WOOD & PLASTICS	114.2	107.3	110.8	109.8	100.5	105.2	104.1	85.0	94.7	114.5	124.6	119.4	111.0	100.0	105.6	114.4	87.2	101.0
7	THERMAL & MOISTURE PROTECTION	99.1	113.9	106.1	99.0	93.7	96.5	102.8	93.2	98.3	99.2	129.3	113.2	99.9	103.8	101.7	99.2	106.6	102.7
8	DOORS & WINDOWS	96.8	108.8	99.6	91.7	92.2	91.8	96.8	90.5	95.3	104.1	130.0	110.3	91.6	107.7	95.4	104.1	92.4	101.3
092	LATH, PLASTER & GYPSUM BOARD	108.4	107.1	107.5	99.9	100.0	100.0	108.4	84.1	92.2	95.5	124.9	115.1	97.9	99.5	98.9	106.0	86.3	92.9
095	ACOUSTICAL TREATMENT & WOOD FLOORING	94.9	107.1	102.8	94.9	100.0	98.2	94.9	84.1	87.9	84.1	124.9	110.4	88.6	99.5	95.6	87.1	86.3	86.6
096	FLOORING & CARPET	84.1	98.9	87.6	84.5	82.6	84.1	84.4	88.2	85.3	77.9	129.8	90.1	87.5	106.1	91.8	76.1	83.4	77.8
099	PAINTING & WALL COVERINGS	84.6	94.1	90.1	86.8	75.6	80.3	84.6	79.9	81.9	84.4	135.3	113.8	80.3	114.9	100.3	82.3	94.4	89.3
9	FINISHES	97.2	103.3	100.3	96.8	92.7	94.8	96.1	84.9	90.4	88.7	126.7	108.0	95.5	102.6	99.2	89.9	87.3	88.6
10-14	TOTAL DIV. 10-14	100.0	104.1	100.9	100.0	101.0	100.2	100.0	96.2	99.2	100.0	125.2	105.5	100.0	102.6	100.6	100.0	99.6	99.9
15	MECHANICAL	100.1	99.6	99.9	99.9	87.1	94.4	100.1	87.9	94.8	100.0	125.5	111.0	100.0	98.5	99.3	100.2	96.9	98.8
16	ELECTRICAL	106.6	88.2	94.4	93.6	81.4	85.5	106.1	78.6	87.8	101.2	131.8	121.5	99.0	97.8	98.2	104.4	89.3	94.3
1-16	WEIGHTED AVERAGE	100.2	104.5	102.2	95.8	93.8	94.8	99.2	91.7	95.6	101.8	122.1	111.6	97.1	104.4	100.6	99.7	96.9	98.3

DIVISION		PENNSYLVANIA			RHODE ISLAND			SOUTH CAROLINA						SOUTH DAKOTA					
		SCRANTON			PROVIDENCE			CHARLESTON			COLUMBIA			RAPID CITY			SIOUX FALLS		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	96.9	110.5	107.4	94.6	104.6	102.3	90.2	83.1	84.7	89.6	83.1	84.6	73.5	94.1	89.4	73.2	96.3	91.0
031	CONCRETE FORMWORK	106.6	90.6	93.1	101.3	107.2	106.3	95.6	53.5	60.0	101.9	56.7	63.8	108.5	48.8	58.1	93.9	50.9	57.6
032	CONCRETE REINFORCEMENT	99.0	96.0	97.3	121.9	114.3	117.6	94.6	57.1	73.5	94.6	57.1	73.4	90.8	53.3	69.7	90.8	53.2	69.6
033	CAST IN PLACE CONCRETE	97.4	92.7	95.3	95.0	115.1	103.7	81.2	62.2	72.9	76.4	57.5	68.2	97.1	55.5	79.1	94.5	63.9	81.2
3	CONCRETE	105.3	94.2	99.7	114.8	110.9	112.8	91.6	59.2	75.2	89.9	59.0	74.3	90.1	53.3	71.5	87.7	57.1	72.2
4	MASONRY	100.8	95.7	97.6	110.8	113.2	112.3	89.9	44.2	61.5	88.8	44.2	61.0	101.0	54.2	71.8	99.4	57.3	73.2
5	METALS	99.0	121.6	107.7	105.8	107.4	106.4	95.9	85.9	92.0	95.9	85.7	91.9	104.8	71.8	92.0	105.5	71.6	92.4
6	WOOD & PLASTICS	114.2	88.3	101.4	104.7	105.2	105.0	92.6	53.8	73.5	100.5	58.6	79.8	106.5	49.4	78.3	93.3	48.8	71.3
7	THERMAL & MOISTURE PROTECTION	99.0	94.1	96.7	99.1	106.9	102.7	92.7	53.9	74.6	92.9	54.3	74.9	96.8	56.7	78.1	96.2	59.5	79.1
8	DOORS & WINDOWS	96.8	89.6	95.0	99.1	114.7	102.8	97.0	51.2	86.0	97.0	53.8	86.7	104.9	48.1	91.3	104.9	47.8	91.3
092	LATH, PLASTER & GYPSUM BOARD	108.4	87.5	94.5	105.2	104.2	104.5	95.3	52.1	66.5	95.3	57.0	69.8	106.8	48.1	67.7	106.8	47.6	67.4
095	ACOUSTICAL TREATMENT & WOOD FLOORING	94.9	87.5	90.1	99.8	104.2	102.6	90.3	52.1	65.6	90.3	57.0	68.8	110.5	48.1	70.3	110.5	47.6	69.9
096	FLOORING & CARPET	84.1	89.2	85.3	94.2	122.0	100.7	84.5	43.2	74.8	84.5	42.8	74.7	120.2	66.4	107.6	120.2	60.4	106.2
099	PAINTING & WALL COVERINGS	84.6	90.5	88.0	93.5	120.8	109.3	101.5	52.6	73.3	101.5	52.6	73.3	115.3	46.2	75.4	115.3	46.2	75.4
9	FINISHES	97.1	90.0	93.5	95.9	111.5	103.9	89.6	51.2	70.1	89.6	53.8	71.4	109.2	51.7	80.0	109.1	51.8	80.0
10-14	TOTAL DIV. 10-14	100.0	101.9	100.4	100.0	112.6	102.7	100.0	72.3	94.0	100.0	73.0	94.1	100.0	61.4	91.6	100.0	64.0	92.2
15	MECHANICAL	100.1	92.4	96.8	99.9	103.2	101.3	100.0	61.9	83.5	100.0	52.2	79.2	99.9	45.4	76.3	99.9	49.0	77.8
16	ELECTRICAL	106.6	88.4	94.5	99.8	110.4	106.8	96.3	48.1	64.2	96.3	50.7	66.0	92.6	57.5	69.3	92.6	56.2	68.4
1-16	WEIGHTED AVERAGE	100.4	96.7	98.6	102.4	108.7	105.5	95.5	60.2	78.5	95.3	59.3	77.9	99.7	58.3	79.7	99.3	59.9	80.2

CITY COST INDEXES

DIVISION		UTAH						VERMONT						VIRGINIA					
		OGDEN			SALT LAKE CITY			BURLINGTON			RUTLAND			ALEXANDRIA			NEWPORT NEWS		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	88.6	98.3	96.0	87.9	98.2	95.8	93.5	102.0	100.0	93.6	102.0	100.0	115.9	84.7	91.9	105.4	85.3	90.0
031	CONCRETE FORMWORK	98.8	61.0	66.9	98.0	61.0	66.8	84.5	67.0	69.7	97.6	67.0	71.8	92.2	76.7	79.1	95.6	59.3	64.9
032	CONCRETE REINFORCEMENT	99.3	70.3	83.0	97.2	70.3	82.1	121.9	71.8	93.7	121.9	71.8	93.7	84.1	75.4	79.2	94.6	62.3	76.4
033	CAST IN PLACE CONCRETE	90.1	74.4	83.2	96.4	74.4	86.8	108.3	70.7	91.9	106.4	70.7	90.9	101.4	82.6	93.2	99.6	63.3	83.8
3	CONCRETE	100.0	68.1	83.9	102.6	68.2	85.2	116.6	69.3	92.7	116.8	69.3	92.8	93.3	80.0	89.5	100.1	63.2	81.4
4	MASONRY	106.6	70.1	83.9	119.8	70.1	88.9	98.9	56.7	72.6	89.2	56.7	69.0	91.0	73.8	80.3	91.6	54.2	68.3
5	METALS	105.6	78.7	95.2	104.7	78.7	94.7	105.8	73.0	93.1	105.8	73.0	93.1	95.9	99.4	97.3	96.0	91.2	94.1
6	WOOD & PLASTICS	88.8	58.0	73.6	89.2	58.0	73.9	86.9	67.0	77.1	103.2	67.0	85.3	91.3	77.3	84.4	92.6	62.0	77.5
7	THERMAL & MOISTURE PROTECTION	104.1	73.7	89.9	106.0	73.7	90.9	98.3	65.3	82.9	98.4	65.3	82.9	93.0	82.6	88.1	92.7	54.7	75.0
8	DOORS & WINDOWS	90.9	61.0	83.8	90.9	61.0	83.8	103.4	61.8	93.5	103.4	61.8	93.5	97.0	77.4	92.3	97.0	59.3	88.0
092	LATH, PLASTER & GYPSUM BOARD	87.9	56.3	66.8	88.5	56.3	67.0	105.2	64.6	78.1	105.2	64.6	78.1	95.3	76.3	82.7	95.3	59.4	71.4
095	ACOUSTICAL TREATMENT & WOOD FLOORING	98.5	56.3	71.3	98.5	56.3	71.3	99.8	64.6	77.1	99.8	64.6	77.1	90.3	76.3	81.3	90.3	59.4	70.4
096	FLOORING & CARPET	96.7	62.3	88.6	95.7	62.3	87.8	94.2	53.0	84.5	94.2	53.0	84.5	84.5	91.4	86.1	84.5	53.9	77.3
099	PAINTING & WALL COVERINGS	108.0	66.8	84.2	108.0	69.6	85.8	93.4	54.3	70.8	93.4	54.3	70.8	112.5	90.3	99.7	101.5	57.7	76.2
9	FINISHES	91.8	60.7	76.0	91.9	61.0	76.2	95.4	62.9	78.8	95.3	62.9	78.8	90.2	80.9	85.5	89.5	58.3	73.6
10-14	TOTAL DIV. 10-14	100.0	78.9	95.4	100.0	79.0	95.4	100.0	75.1	94.6	100.0	75.1	94.6	100.0	89.4	97.7	100.0	77.6	95.1
15	MECHANICAL	99.8	73.1	88.2	99.8	73.1	88.2	99.9	70.4	87.1	99.9	70.4	87.1	100.0	81.1	91.8	100.0	56.9	81.3
16	ELECTRICAL	98.4	73.1	81.5	99.2	77.8	85.0	104.7	56.3	72.5	104.7	56.3	72.5	96.4	91.5	93.1	96.3	61.9	73.4
1-16	WEIGHTED AVERAGE	98.7	73.3	86.4	99.7	74.1	87.3	102.6	68.8	86.3	102.3	68.8	86.1	97.3	84.1	90.9	97.1	65.2	81.7

DIVISION		VIRGINIA									WASHINGTON					
		NORFOLK			RICHMOND			ROANOKE			SEATTLE			SPOKANE			TACOMA		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	104.4	86.4	90.6	105.9	85.6	90.3	102.8	82.7	87.3	90.3	125.0	117.0	93.1	93.5	93.4	89.9	124.7	116.7
031	CONCRETE FORMWORK	101.5	59.3	65.8	96.9	59.7	65.5	95.6	48.7	56.0	89.9	107.3	104.6	115.2	88.5	92.7	89.9	106.7	104.0
032	CONCRETE REINFORCEMENT	94.6	62.3	76.4	94.6	60.6	75.4	94.6	60.3	75.3	101.3	96.1	98.4	105.7	95.3	99.8	101.3	95.7	98.2
033	CAST IN PLACE CONCRETE	101.9	63.3	85.2	103.4	61.7	85.3	105.7	55.5	83.9	94.6	111.4	101.9	109.6	90.6	101.4	91.2	111.1	99.9
3	CONCRETE	101.7	63.2	82.2	102.0	62.4	82.0	103.0	55.5	79.0	112.3	105.7	108.9	115.7	90.3	102.9	110.7	105.2	107.9
4	MASONRY	99.7	54.2	71.3	87.5	58.7	69.6	91.1	46.5	63.4	138.5	107.3	119.4	116.6	91.2	100.7	138.3	101.3	115.2
5	METALS	95.1	91.2	93.6	96.0	91.2	94.1	95.7	88.2	92.8	104.9	89.6	99.0	94.6	88.4	92.2	104.6	88.3	98.3
6	WOOD & PLASTICS	100.0	62.0	81.2	94.2	62.0	78.3	92.6	49.0	71.1	94.9	106.1	100.4	109.9	87.0	98.6	93.8	106.0	99.9
7	THERMAL & MOISTURE PROTECTION	93.0	54.7	75.1	92.6	54.2	74.7	92.7	51.7	73.6	106.9	101.7	104.0	168.8	85.1	129.7	106.7	96.3	101.8
8	DOORS & WINDOWS	97.0	59.3	88.0	97.0	57.4	87.5	97.0	50.2	85.8	108.9	101.7	107.4	115.1	86.4	110.5	109.3	102.7	107.8
092	LATH, PLASTER & GYPSUM BOARD	95.3	59.4	71.4	95.3	59.5	71.5	95.3	47.0	63.1	97.0	109.6	102.8	134.0	86.5	102.3	101.0	105.5	104.0
095	ACOUSTICAL TREATMENT & WOOD FLOORING	90.3	59.4	70.4	90.3	59.5	70.4	90.3	47.0	62.4	137.1	109.6	116.8	137.3	86.5	104.6	135.6	105.5	116.2
096	FLOORING & CARPET	84.5	53.9	77.3	84.5	74.4	82.1	84.5	49.4	76.0	122.1	97.6	116.3	127.6	93.2	117.2	122.8	74.8	111.5
099	PAINTING & WALL COVERINGS	101.5	57.7	76.2	101.5	65.0	80.4	101.5	45.0	68.3	122.9	96.5	107.1	129.3	80.6	101.0	122.9	95.5	107.1
9	FINISHES	89.5	58.3	73.7	89.5	63.5	76.2	89.4	48.0	68.3	129.0	104.7	116.3	144.9	86.4	115.1	129.3	99.3	114.0
10-14	TOTAL DIV. 10-14	100.0	77.6	95.1	100.0	76.6	94.9	100.0	71.3	93.8	100.0	107.1	101.5	100.0	97.5	99.5	100.0	107.0	101.5
15	MECHANICAL	100.0	56.6	81.2	100.0	64.1	84.4	100.0	55.6	80.7	100.1	103.6	104.2	100.5	91.9	96.8	100.2	107.4	103.8
16	ELECTRICAL	96.3	61.9	73.4	96.3	59.6	78.5	96.3	50.3	65.7	101.7	103.6	100.3	91.0	81.1	84.4	101.7	90.8	94.5
1-16	WEIGHTED AVERAGE	97.6	65.2	82.0	97.1	68.6	83.4	97.3	58.7	78.6	108.4	105.8	107.2	110.4	88.7	99.9	108.3	102.3	105.4

DIVISION		WEST VIRGINIA						WISCONSIN											
		CHARLESTON			HUNTINGTON			GREEN BAY			KENOSHA			MADISON			MILWAUKEE		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	100.5	85.9	89.2	102.7	85.8	89.7	77.5	96.1	91.9	79.2	97.1	92.9	75.2	100.6	94.7	75.6	90.1	86.6
031	CONCRETE FORMWORK	104.2	85.1	88.0	95.6	88.2	89.3	122.5	81.9	88.2	118.8	91.0	95.3	101.7	83.4	86.3	105.9	104.9	105.1
032	CONCRETE REINFORCEMENT	94.6	72.0	81.9	94.6	85.0	89.2	90.8	105.4	99.3	94.5	105.9	100.9	88.6	88.3	88.5	88.6	106.5	98.7
033	CAST IN PLACE CONCRETE	97.3	86.3	92.5	104.7	94.1	100.1	103.8	85.1	95.7	103.0	97.9	100.6	95.5	88.8	92.6	93.6	102.1	97.3
3	CONCRETE	99.8	84.3	92.0	102.5	90.8	96.5	94.3	87.8	91.0	95.2	93.9	95.1	88.3	86.5	87.4	98.1	103.1	95.5
4	MASONRY	89.7	82.5	85.2	91.1	83.6	86.4	110.0	80.9	91.9	88.3	91.7	90.4	92.8	89.1	90.5	92.7	108.3	102.4
5	METALS	96.0	99.2	97.2	95.8	104.0	99.0	93.1	94.7	93.7	92.7	98.2	94.8	93.0	88.7	91.3	94.5	87.7	91.9
6	WOOD & PLASTICS	103.6	85.8	94.8	92.5	89.1	90.9	129.2	81.3	105.5	124.3	91.9	108.1	107.0	81.3	94.3	111.6	103.8	107.8
7	THERMAL & MOISTURE PROTECTION	93.3	82.5	88.2	92.7	86.0	89.6	98.2	79.9	89.6	97.4	86.8	92.4	97.0	82.0	90.0	95.7	102.0	98.7
8	DOORS & WINDOWS	98.1	77.4	93.2	97.0	82.4	93.5	104.8	84.0	99.8	104.6	99.4	102.7	109.3	80.3	102.4	109.1	103.1	107.7
092	LATH, PLASTER & GYPSUM BOARD	95.3	85.1	88.5	95.3	88.5	90.8	99.0	81.1	87.1	94.4	91.6	92.5	109.2	81.1	90.5	109.2	104.3	105.9
095	ACOUSTICAL TREATMENT & WOOD FLOORING	90.3	85.1	86.9	90.3	88.5	89.1	97.9	81.1	87.1	94.8	91.6	92.7	104.7	81.1	89.5	104.7	104.3	104.4
096	FLOORING & CARPET	84.5	91.0	86.0	84.5	91.4	86.1	121.2	82.3	112.1	118.3	66.5	106.6	99.2	69.5	92.3	102.4	101.5	102.0
099	PAINTING & WALL COVERINGS	101.5	75.6	86.5	101.5	76.7	87.2	115.3	67.1	87.4	113.1	70.5	88.4	100.0	75.9	86.1	102.9	101.6	102.2
9	FINISHES	89.5	85.4	87.4	89.4	87.8	88.6	106.5	80.1	93.1	104.3	85.2	94.6	100.6	79.7	89.9	101.9	104.1	103.0
10-14	TOTAL DIV. 10-14	100.0	97.1	99.4	100.0	85.5	96.9	100.0	90.8	98.0	100.0	93.1	98.5	100.0	88.9	97.6	100.0	98.8	99.7
15	MECHANICAL	100.0	78.3	90.6	100.0	80.2	91.4	100.2	83.7	93.0	100.1	77.0	90.1	99.8	85.4	93.6	99.8	96.6	98.4
16	ELECTRICAL	96.3	83.2	87.6	96.3	85.8	89.3	92.6	84.6	87.3	94.3	78.7	83.9	92.4	78.2	83.0	93.9	98.5	96.9
1-16	WEIGHTED AVERAGE	97.1	84.5	91.0	97.2	87.0	92.3	99.3	86.0	92.9	98.1	87.5	93.0	97.0	85.6	91.5	97.5	98.8	98.1

CITY COST INDEXES

DIVISION		WISCONSIN RACINE			WYOMING CHEYENNE			CANADA CALGARY, ALBERTA			CANADA EDMONTON, ALBERTA			CANADA HAMILTON, ONTARIO			CANADA LONDON, ONTARIO		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	74.9	100.9	94.9	89.5	98.1	96.1	102.8	99.3	100.1	103.9	99.3	100.4	109.6	99.4	101.7	109.6	99.1	101.5
031	CONCRETE FORMWORK	102.1	91.0	92.7	97.9	57.3	63.6	115.5	97.4	100.2	112.5	97.4	99.7	114.9	118.0	117.5	114.8	111.8	112.3
032	CONCRETE REINFORCEMENT	88.6	105.9	98.4	99.3	51.1	72.1	161.0	79.4	115.0	161.0	79.4	115.0	174.3	93.7	128.8	122.7	91.7	105.2
033	CAST IN PLACE CONCRETE	93.6	90.5	92.3	104.2	66.4	87.8	139.6	93.8	119.7	138.7	93.8	119.2	153.5	117.5	137.9	153.5	114.4	136.5
3	CONCRETE	87.4	93.8	90.7	106.5	60.0	83.0	134.2	92.8	113.3	133.5	92.8	112.9	142.4	112.8	127.4	135.4	108.7	121.9
4	MASONRY	92.7	91.7	92.1	97.6	52.3	69.4	145.0	95.4	114.1	144.9	95.4	114.1	147.6	120.2	130.6	147.6	116.5	128.2
5	METALS	93.1	98.2	95.1	106.5	68.0	91.7	100.7	91.7	97.3	100.7	91.7	97.3	100.8	101.0	100.8	98.8	100.5	99.5
6	WOOD & PLASTICS	107.4	91.5	99.5	94.2	56.8	75.8	117.8	97.0	107.5	112.9	97.0	105.0	118.6	118.0	118.3	118.6	110.9	114.8
7	THERMAL & MOISTURE PROTECTION	97.0	86.2	91.9	105.5	61.9	85.1	104.4	94.2	99.6	104.3	94.2	99.6	104.4	107.6	105.9	104.4	105.1	104.7
8	DOORS & WINDOWS	109.3	96.4	106.2	95.6	56.0	86.1	90.8	89.9	90.6	90.8	90.1	90.6	90.8	110.0	95.4	91.5	104.8	94.7
092	LATH, PLASTER & GYPSUM BOARD	109.2	91.6	97.5	87.9	55.1	66.0	151.6	96.9	115.2	147.7	96.9	113.9	206.3	118.6	147.9	206.3	111.3	143.0
095	ACOUSTICAL TREATMENT & WOOD FLOORING	104.7	91.6	96.2	98.5	55.1	70.5	104.8	96.9	99.7	104.8	96.9	99.7	104.8	118.6	113.7	104.8	111.3	109.0
096	FLOORING & CARPET	99.2	68.5	92.0	96.7	56.3	87.2	132.7	92.0	123.2	132.7	92.0	123.2	132.7	112.5	128.0	132.7	112.5	128.0
099	PAINTING & WALL COVERINGS	100.0	78.3	87.4	108.0	76.0	89.5	110.5	92.9	100.3	110.5	92.9	100.3	110.5	113.0	111.9	110.5	113.0	111.9
9	FINISHES	100.6	86.1	93.2	91.9	58.8	75.1	120.7	96.4	108.4	120.4	96.4	108.2	126.8	117.2	121.9	126.8	112.5	119.6
10-14	TOTAL DIV. 10-14	100.0	93.1	98.5	100.0	76.6	94.9	100.0	101.9	100.4	100.0	99.7	99.9	100.0	100.9	100.2	100.0	99.0	99.8
15	MECHANICAL	99.8	77.1	89.9	99.8	56.6	81.1	100.4	87.3	94.7	100.4	87.3	94.7	100.4	119.0	108.4	100.4	114.2	106.4
16	ELECTRICAL	92.4	80.8	84.7	98.3	64.3	75.7	114.2	97.7	103.2	114.2	97.7	103.2	127.5	123.6	124.9	127.5	119.9	122.5
1-16	WEIGHTED AVERAGE	96.9	88.4	92.8	99.8	64.1	82.5	109.4	94.0	101.9	109.2	93.9	101.8	112.4	114.0	113.2	111.4	110.6	111.0

DIVISION		CANADA MONTREAL, QUEBEC			CANADA OTTAWA, ONTARIO			CANADA QUEBEC, QUEBEC			CANADA TORONTO, ONTARIO			CANADA VANCOUVER, B.C.			CANADA WINNIPEG, MANITOBA		
		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	MAT.	INST.	TOTAL
2	SITE WORK	88.6	99.4	96.9	109.1	99.2	101.5	89.1	99.4	97.0	111.0	99.5	102.2	97.1	100.6	99.8	108.0	98.1	100.4
031	CONCRETE FORMWORK	126.4	102.3	106.0	113.1	112.9	113.0	126.4	102.4	106.2	116.8	122.8	121.9	106.3	111.3	110.5	115.6	93.1	96.6
032	CONCRETE REINFORCEMENT	147.6	93.7	117.2	174.3	91.5	127.6	147.6	93.7	117.2	174.3	94.6	129.3	161.0	107.9	131.0	161.0	68.6	108.9
033	CAST IN PLACE CONCRETE	128.3	108.7	119.8	149.7	114.3	134.3	132.1	108.8	122.0	165.7	125.4	148.2	120.6	116.4	118.7	149.2	91.1	124.0
3	CONCRETE	128.0	102.8	115.2	140.4	109.1	124.6	129.8	102.9	116.2	148.1	117.8	132.8	131.0	112.0	121.4	131.4	88.1	109.5
4	MASONRY	143.0	106.0	120.0	147.4	114.7	127.0	143.3	106.0	120.1	148.5	126.4	134.7	143.6	119.2	128.4	145.6	90.7	111.5
5	METALS	100.7	96.8	99.2	100.8	100.2	100.5	100.7	97.0	99.3	100.8	101.6	101.1	100.6	103.3	101.7	100.7	89.7	96.5
6	WOOD & PLASTICS	135.1	102.2	118.9	117.6	113.3	115.4	135.1	102.2	118.9	120.1	122.1	121.1	103.6	108.4	106.0	117.6	94.5	106.2
7	THERMAL & MOISTURE PROTECTION	104.7	105.2	104.9	104.3	102.1	103.3	104.7	105.2	104.9	104.6	112.1	108.1	104.1	112.9	108.2	104.4	91.6	98.4
8	DOORS & WINDOWS	90.8	89.3	90.4	90.8	106.2	94.5	90.8	95.1	91.8	90.1	114.3	95.9	90.8	107.8	94.9	90.8	84.0	89.2
092	LATH, PLASTER & GYPSUM BOARD	155.3	102.3	120.0	251.3	113.7	159.7	214.7	102.3	139.8	154.1	122.9	133.3	150.4	108.7	122.6	146.7	94.4	111.8
095	ACOUSTICAL TREATMENT & WOOD FLOORING	104.8	102.3	103.2	104.8	113.7	110.6	104.8	102.3	103.2	104.8	122.9	116.5	104.8	108.7	107.3	104.8	94.4	98.1
096	FLOORING & CARPET	132.7	115.7	128.7	132.7	110.8	127.6	132.7	115.7	128.7	132.7	115.6	128.7	132.7	119.8	129.7	132.7	87.6	122.1
099	PAINTING & WALL COVERINGS	110.5	109.7	110.0	110.5	104.6	107.1	110.5	109.7	110.0	110.5	119.7	115.8	110.5	117.3	114.4	110.5	77.5	91.4
9	FINISHES	120.3	106.0	113.0	132.1	111.9	121.9	127.3	106.0	116.5	120.7	122.0	121.4	120.6	112.9	116.7	120.2	90.8	105.2
10-14	TOTAL DIV. 10-14	100.0	105.7	101.2	100.0	99.1	99.8	100.0	105.7	101.2	100.0	103.1	100.7	100.0	116.3	103.5	100.0	89.0	97.6
15	MECHANICAL	100.4	97.8	99.2	100.4	114.7	106.6	100.4	97.8	99.3	100.4	119.4	108.6	100.4	113.0	105.9	100.4	94.1	97.7
16	ELECTRICAL	124.2	99.7	107.9	124.2	121.4	122.3	124.2	99.7	107.9	127.5	122.6	124.3	127.1	114.8	118.9	129.4	100.6	110.2
1-16	WEIGHTED AVERAGE	109.0	100.7	105.0	112.4	110.7	111.6	110.0	101.0	105.7	112.5	116.2	114.3	109.5	111.4	110.4	110.3	93.1	102.0

Means Project Cost Report

By filling out and returning the Project Description, you can receive a discount of $20.00 off any one of the Means products advertised in the following pages. The cost information required includes all items marked (✓) except those where no costs occurred. The sum of all major items should equal the Total Project Cost.

$20.00 Discount per product for each report you submit.

DISCOUNT PRODUCTS AVAILABLE – FOR U.S. CUSTOMERS ONLY – STRICTLY CONFIDENTIAL

Project Description (No remodeling projects, please.)

✓ Type Building _____
✓ Location _____
Capacity _____
✓ Frame _____
✓ Exterior _____
✓ Basement: full ☐ partial ☐ none ☐ crawl ☐
✓ Height in Stories _____
✓ Total Floor Area _____
Ground Floor Area _____
✓ Volume in C.F. _____
% Air Conditioned _____ Tons _____
Comments _____

Owner _____
Architect _____
General Contractor _____
✓ Bid Date _____
Typical Bay Size _____
✓ Labor Force: _____ % Union _____ % Non-Union
✓ Project Description (Circle one number in each line)
1. Economy 2. Average 3. Custom 4. Luxury
1. Square 2. Rectangular 3. Irregular 4. Very Irregular

	✓	**Total Project Cost**		$
A	✓	**General Conditions**		$
B	✓	**Site Work**		$
BS		Site Clearing & Improvement		
BE		*Excavation*	(C.Y.)	
BF		*Caissons & Piling*	(L.F.)	
BU		*Site Utilities*		
BP		*Roads & Walks Exterior Paving*	(S.Y.)	
C	✓	**Concrete**		$
C		*Cast in Place*	(C.Y.)	
CP		*Precast*	(S.F.)	
D	✓	**Masonry**		$
DB		*Brick*	(M)	
DC		*Block*	(M)	
DT		*Tile*	(S.F.)	
DS		*Stone*	(S.F.)	
E	✓	**Metals**		$
ES		*Structural Steel*	(Tons)	
EM		*Misc. & Ornamental Metals*		
F	✓	**Wood & Plastics**		$
FR		*Rough Carpentry*	(MBF)	
FF		*Finish Carpentry*		
FM		*Architectural Millwork*		
G	✓	**Thermal & Moisture Protection**		$
GW		*Waterproofing-Dampproofing*	(S.F.)	
GN		*Insulation*	(S.F.)	
GR		*Roofing & Flashing*	(S.F.)	
GM		*Metal Siding/Curtain Wall*	(S.F.)	
H	✓	**Doors and Windows**		$
HD		*Doors*	(Ea.)	
HW		*Windows*	(S.F.)	
HH		*Finish Hardware*		
HG		*Glass & Glazing*	(S.F.)	
HS		*Storefronts*	(S.F.)	

J	✓	**Finishes**		$
JL		*Lath & Plaster*	(S.Y.)	
JD		*Drywall*	(S.F.)	
JM		*Tile & Marble*	(S.F.)	
JT		*Terrazzo*	(S.F.)	
JA		*Acoustical Treatment*	(S.F.)	
JC		*Carpet*	(S.Y.)	
JF		*Hard Surface Flooring*	(S.F.)	
JP		*Painting & Wall Covering*	(S.F.)	
K	✓	**Specialties**		$
KB		*Bathroom Partitions & Access.*	(S.F.)	
KF		*Other Partitions*	(S.F.)	
KL		*Lockers*	(Ea.)	
L	✓	**Equipment**		$
LK		*Kitchen*		
LS		*School*		
LO		*Other*		
M	✓	**Furnishings**		$
MW		*Window Treatment*		
MS		*Seating*	(Ea.)	
N	✓	**Special Construction**		$
NA		*Acoustical*	(S.F.)	
NB		*Prefab. Bldgs.*	(S.F.)	
NO		*Other*		
P	✓	**Conveying Systems**		$
PE		*Elevators*	(Ea.)	
PS		*Escalators*	(Ea.)	
PM		*Material Handling*		
Q	✓	**Mechanical**		$
QP		*Plumbing*	(No. of fixtures)	
QS		*Fire Protection (Sprinklers)*		
QF		*Fire Protection (Hose Standpipes)*		
QB		*Heating, Ventilating & A.C.*		
QH		*Heating & Ventilating*	(BTU Output)	
QA		*Air Conditioning*	(Tons)	
R	✓	**Electrical**		$
RL		*Lighting*	(S.F.)	
RP		*Power Service*		
RD		*Power Distribution*		
RA		*Alarms*		
RG		*Special Systems*		
S	✓	**Mech./Elec. Combined**		$

Product Name _____
Product Number _____
Your Name _____
Title _____
Company _____
☐ Company
☐ Home Street Address _____
City, State, Zip _____
☐ Please send _____ forms.

Please specify the Means product you wish to receive. Complete the address information as requested and return this form with your check (product cost less $20.00) to address below.

R.S. Means Company, Inc.,
Square Foot Costs Department
100 Construction Plaza, P.O. Box 800
Kingston, MA 02364-9988

ATTACHMENT L

RS Means

Building Construction Cost Data

55th Annual Edition

1997

Division 17
Square Foot & Cubic Foot Costs

Estimating Tips

- The cost figures in Division 17 were derived from more than 10,200 projects contained in the Means database of completed construction projects, and include the contractor's overhead and profit, but do not generally include architectural fees or land costs. The figures have been adjusted to January of the current year. New projects are added to our files each year, and projects over ten years old are discarded. For this reason, certain costs may not show a uniform annual progression. In no case are all subdivisions of a project listed.
- These projects were located throughout the U.S. and reflect a tremendous variation in square foot (S.F.) and cubic foot (C.F.) costs. This is due to differences, not only in labor and material costs, but also in individual owners' requirements. For instance, a bank in a large city would have different features than one in a rural area. This is true of all the different types of buildings analyzed. Therefore, caution should be exercised when using Division 17 costs. For example, for court houses, costs in the database are local court house costs and will not apply to the larger, more elaborate federal court houses. As a general rule, the projects in the 1/4 column do not include any site work or equipment, while the projects in the 3/4 column may include both equipment and site work. The median figures do not generally include site work.
- None of the figures "go with" any others. All individual cost items were computed and tabulated separately. Thus the sum of the median figures for Plumbing, HVAC and Electrical will not normally total up to the total Mechanical and Electrical costs arrived at by separate analysis and tabulation of the projects.
- Each building was analyzed as to total and component costs and percentages. The figures were arranged in ascending order with the results tabulated as shown. The 1/4 column shows that 25% of the projects had lower costs, 75% higher. The 3/4 column shows that 75% of the projects had lower costs, 25% had higher. The median column shows that 50% of the projects had lower costs, 50% had higher.
- There are two times when square foot costs are useful. The first is in the conceptual stage when no details are available. Then square foot costs make a useful starting point. The second is after the bids are in and the costs can be worked back into their appropriate units for information purposes. As soon as details become available in the project design, the square foot approach should be discontinued and the project priced as to its particular components. When more precision is required or for estimating the replacement cost of specific buildings, the current edition of *Means Square Foot Costs* should be used.
- In using the figures in Division 17, it is recommended that the median column be used for preliminary figures if no additional information is available. The median figures, when multiplied by the total city construction cost index figures (see City Cost Indexes) and then multiplied by the project size modifier in Reference Number R171-100, should present a fairly accurate base figure, which would then have to be adjusted in view of the estimator's experience, local economic conditions, code requirements and the owner's particular requirements. There is no need to factor the percentage figures, as these should remain constant from city to city. All tabulations mentioning air conditioning had at least partial air conditioning.
- The editors of this book would greatly appreciate receiving cost figures on one or more of your recent projects which would then be included in the averages for next year. All cost figures received will be kept confidential except that they will be averaged with other similar projects to arrive at S.F. and C.F. cost figures for next year's book. See the last page of the book for details and the discount available for submitting one or more of your projects.

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Means Project Cost Report

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$20.00 Discount per product for each report you submit.

DISCOUNT PRODUCTS AVAILABLE—FOR U.S. CUSTOMERS ONLY—STRICTLY CONFIDENTIAL

Project Description (No remodeling projects, please.)

✓ Type Building _____
✓ Location _____
Capacity _____
✓ Frame _____
✓ Exterior _____
✓ Basement: full ☐ partial ☐ none ☐ crawl ☐
✓ Height in Stories _____
✓ Total Floor Area _____
Ground Floor Area _____
✓ Volume in C.F. _____
% Air Conditioned _____ Tons _____
Comments _____

Owner _____
Architect _____
General Contractor _____
✓ Bid Date _____
Typical Bay Size _____
✓ Labor Force: _____ % Union _____ % Non-Union
✓ Project Description (Circle one number in each line)
1. Economy 2. Average 3. Custom 4. Luxury
1. Square 2. Rectangular 3. Irregular 4. Very Irregular

	✓	Total Project Cost		$
A	✓	General Conditions		$
B	✓	Site Work		$
BS		Site Clearing & Improvement		
BE		*Excavation*	(C.Y.)	
BF		*Caissons & Piling*	(L.F.)	
BU		*Site Utilities*		
BP		*Roads & Walks Exterior Paving*	(S.Y.)	
C	✓	Concrete		$
C		*Cast in Place*	(C.Y.)	
CP		*Precast*	(S.F.)	
D	✓	Masonry		$
DB		*Brick*	(M)	
DC		*Block*	(M)	
DT		*Tile*	(S.F.)	
DS		*Stone*	(S.F.)	
E	✓	Metals		$
ES		*Structural Steel*	(Tons)	
EM		*Misc. & Ornamental Metals*		
F	✓	Wood & Plastics		$
FR		*Rough Carpentry*	(MBF)	
FF		*Finish Carpentry*		
FM		*Architectural Millwork*		
G	✓	Thermal & Moisture Protection		$
GW		*Waterproofing-Dampproofing*	(S.F.)	
GN		*Insulation*	(S.F.)	
GR		*Roofing & Flashing*	(S.F.)	
GM		*Metal Siding/Curtain Wall*	(S.F.)	
H	✓	Doors and Windows		$
HD		*Doors*	(Ea.)	
HW		*Windows*	(S.F.)	
HH		*Finish Hardware*		
HG		*Glass & Glazing*	(S.F.)	
HS		*Storefronts*	(S.F.)	

J	✓	Finishes		$
JL		*Lath & Plaster*	(S.Y.)	
JD		*Drywall*	(S.F.)	
JM		*Tile & Marble*	(S.F.)	
JT		*Terrazzo*	(S.F.)	
JA		*Acoustical Treatment*	(S.F.)	
JC		*Carpet*	(S.Y.)	
JF		*Hard Surface Flooring*	(S.F.)	
JP		*Painting & Wall Covering*	(S.F.)	
K	✓	Specialties		$
KB		*Bathroom Partitions & Access.*	(S.F.)	
KF		*Other Partitions*	(S.F.)	
KL		*Lockers*	(Ea.)	
L	✓	Equipment		$
LK		*Kitchen*		
LS		*School*		
LO		*Other*		
M	✓	Furnishings		$
MW		*Window Treatment*		
MS		*Seating*	(Ea.)	
N	✓	Special Construction		$
NA		*Acoustical*	(S.F.)	
NB		*Prefab. Bldgs.*	(S.F.)	
NO		*Other*		
P	✓	Conveying Systems		$
PE		*Elevators*	(Ea.)	
PS		*Escalators*	(Ea.)	
PM		*Material Handling*		
Q	✓	Mechanical		$
QP		*Plumbing*	*(No. of fixtures*)	
QS		*Fire Protection (Sprinklers)*		
QF		*Fire Protection (Hose Standpipes)*		
QB		*Heating, Ventilating & A.C.*		
QH		*Heating & Ventilating*	(BTU Output)	
QA		*Air Conditioning*	(Tons)	
R	✓	Electrical		$
RL		*Lighting*	(S.F.)	
RP		*Power Service*		
RD		*Power Distribution*		
RA		*Alarms*		
RG		*Special Systems*		
S	✓	Mech./Elec. Combined		$

Product Name _____
Product Number _____
Your Name _____
Title _____
Company _____
☐ Company
☐ Home Street Address _____
City, State, Zip _____
☐ Please send _____ forms.

Please specify the Means product you wish to receive. Complet the address information as requested and return this form with your check (product cost less $20.00) to address below.

R.S. Means Company, Inc.,
Square Foot Costs Department
100 Construction Plaza, P.O. Box 800
Kingston, MA 02364-9988

ATTACHMENT M

AMERITECH
TELEPHONE PLANT INDEXES
ACCOUNTS ON A PART 32 USOA BASIS
MARCH 1995 FORECAST OF INDEX LEVELS

ACCOUNT	ACTUAL 1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
BUILDINGS (2121)	117.1	119.5	123.3	127.3							
MOTOR VEHICLES (2112)											
GARAGE WORK EQUIPMENT (2115)											
OTHER WORK EQUIPMENT (2116)											
FURNITURE (2122)											
OFFICE EQUIPMENT (2123)											
GEN PURPOSE COMPUTERS (2124)											
GENERAL EQUIPMENT COMPOSITE											
COE-ANALOG ELECTRONIC (2211)											
COE-DIGITAL ELECTRONIC (2212)											
COE-ELECTROMECHANICAL (2215)											
STEP BY STEP											
CROSSBAR											
COE-OPERATOR SYSTEMS (2220)											
COE-RADIO (2231)											
COE-ANALOG CIRCUIT (2232.2)											
COE-DIGITAL CIRCUIT (2232.1)											
DIGITAL SPG CIRCUIT											
OTHER DIGITAL CIRCUIT	102.2	101.6	101.2	98.7							
COE COMPOSITE											
STATION APPARATUS (2311)											
LARGE PBX (2341)											
PUBLIC TELEPHONES (2351)											
OTH TERMINAL EQUIPMENT (2362)											
STATION COMPOSITE											
INSIDE PLANT COMPOSITE											
POLES (2411)											
AERIAL CABLE (2421)											
COPPER											
OPTICAL											
U.G. CABLE (2422)											
COPPER											
OPTICAL											
BURIED CABLE (2423)											
COPPER											
OPTICAL											
INTRBLDG NETWORK CABLE (2426)											
COPPER											
OPTICAL											
CABLE COMPOSITE											
CONDUIT SYSTEMS (2441)	106.3	111.1	115.7	119.0							
OSP STRUCTURES COMPOSITE											
OUTSIDE PLANT COMPOSITE											
TOTAL COMPOSITE											

THE AMERITECH TELEPHONE PLANT INDEX:

A HANDBOOK OF METHODS

JOEL POPKIN & COMPANY

WASHINGTON, DC

March, 1997

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time and space. When the comparisons are normalized on a specific composited magnitude from a single point in time or space, then the measure known as an index emerges.

One thing that should be observed about the index is the extent of the information provides. It provides only relative information. Specifically, how one point in time or space compares to another. That is because it is based on a comparison of composites. What it the index does not provide is information about the absolute value of the composited magnitude at a point in time or space.

For the ASITPI, the common magnitude of interest that needs transforming comprises the prices of a particular group of items purchased through time by Ameritech Services. Hence, for the ASITPI, what has to be done is to have some means of transforming those prices and, following that, compositing them. When the transformed prices are composited the result is termed a price index. Insofar as the ASITPI is a kind of price index, the discussion in this methodology centers on how prices are composited to produce a price index.

As indicated, when one studies the behavior of the magnitude of group of items an index is usually required. An index is usually not required when studying the magnitude of only one item. In the case of prices, when the behavior of the price of only one good is being studied then no index is required. That is because the price of a single good is uniquely identifiable with that good. As an example, suppose only the price of oranges is being studied. Suppose, further, that the price of oranges last month was $1.50 a dozen while this month it is $2.25 a dozen. Someone studying that price would probably prefer to keep the prices of $1.50 and $2.25 rather than make an index which expresses the price of one time

relative to another. That is because those prices are uniquely identified with oranges and they contain more information than would an index number; they reflect both the level of the price of oranges and its movements.

In contrast, when studying the behavior of the magnitude of a group of prices an index will be required. For prices, that is because the separate prices of the items in the group are usually not comparable. For example, suppose the combined price behavior of two goods is being studied. Suppose, further, what is being studied is the behavior from last month to this month of the combined price of oranges and telephone services. In that case, there is no uniquely identifiable price that is applicable jointly to both oranges and telephone services. The reason is that the prices of oranges and telephone services are in different units and are not comparable: adding the prices of those two goods does not yield a meaningful result about the price behavior of the composite. Hence, what has to be done to study the price behavior of oranges and telephone services is to transform those prices in someway to make them comparable. Then the transformed prices can be composited and the combined price behavior of the two goods can be studied.

There are many ways to transform prices so as to produce a price index for studying the price behavior of a group of items. For oranges and telephones services, one way would be to use purchases of oranges and telephone services -- either last month's or this month's -- and transform the prices into dollars. Then last months prices and this month's prices could be transformed into dollars and the dollars could then be composited. That comparison will be meaningful because the units being compared are alike. That is, dollars are being compared with dollars. A comparison of those dollar values would indicate by how much, on

about how expensive consumer goods were in those points in time, only by how much, on average, they changed between them.

One difference between the ASITPI and most indexes, including government indexes, is in how the prices are acquired. Typically, price data form most indexes are acquired from vendors. Price data for the ASITPI, though, are acquired from the purchaser, Ameritech Services. That makes the ASITPI an index based on transactions prices rather than on list prices.

I-B. The Concept of Cost Index

While the ASITPI is like a price index, it is not exactly a price index. Rather, as the second descriptor indicates, it is a *cost index*. The key word cost is used to connote that the index relates to a good which is not a final product but which is purchased for use as an intermediate input to produce a final product. Telephone plant, which comprises buildings, circuits, electronic switches, cable, etc., is intermediate; that is, it is an input to the production of telephone communications services. The services produced by the plant are the output of the industry. In producing those services the industry uses other inputs such as labor, energy, and materials. As a cost index, the ASITPI measures the cost of buying *and* installing the capital input that is used in conjunction with those other inputs to produce telephone services.

I-C. The Concept of Constructing Anew: The Reproduction Cost Index

There are different kinds of cost indexes that can be constructed for measuring the cost of buying and installing telephone plant. The ASITPI is a particular kind of cost index. As the third key word indicates, it is a reproduction cost index. That is, the index reflects how much it would cost to reproduce the telephone plant if today's prices for labor and material had to be paid to install today's plant. The choice of making the ASITPI a

reproduction cost index was prompted by the needs that led to the construction of the BSTPI, which primarily were to determine the cost of constructing anew the plant used for providing telephone services.

The description applied to the ASITPI, that is a reproduction cost index, is not used lightly. One of its purposes is to distinguish the ASITPI from a replacement cost index. A replacement cost index is used when the intention is to measure the cost of replacing the existing plant with one embodying today's technology while keeping constant either the quantity of services the plant produces or the revenue derived from those services. A reproduction cost index is used when the intention is to measure how much it would cost to purchase a plant embodying the same mix of old and new technologies as found in today's plant.

In one sense, a reproduction cost index is harder to measure than a replacement cost -- the item to be priced may no longer be sold so its price will have to be imputed (how that imputation is done is illustrated in Section II-B). In another sense, replacement cost is harder to measure than reproduction cost. One reason is the difficulty of comparing the price of the old item with that of the new item. In that comparison, one must be able to determine which part of the new price represents a quality or performance difference compared to the old price and which part represents an actual price change.

There is yet another reason a replacement cost index is more difficult to measure than a reproduction cost index. It is the difficulty of determining the optimal purchasing patterns of new items. That difficulty does not exist for a reproduction cost index. As an example, the current ASITPI has among its prices the prices of the 5ESS switch, the DMS 100/200 switch, and the

Stromberg-Carlson switches for the electronic switching subaccount. Those switch prices are the ones used in the ASITPI because they are the ones that Ameritech has been purchasing. Presumably Ameritech's purchases of them should be optimal given the current configuration of plant, with its old and new technologies existing side by side. For the ASITPI, which is a reproduction cost index based on the current purchases, there is no need to project what switch purchases and prices will be. It is only necessary to know the switches being purchased, how many of them are being purchased and the prices at which they are being purchased. For a replacement cost index, though, current purchases are insufficient. A projection would have to be made as to which other switches might be purchased in addition to, or in place of, 5ESS, DMS 100/200, and Stromberg-Carlson switches if the rest of the plant were reconfigured to include the latest equipment. In light of the multiplicity of switches and the different ways of re-configuring plant purchases, that projection can be very daunting indeed.

The choice of index concepts--replacement versus reproduction--can have an effect on the movement of the cost index and on magnitudes derived from them, such as the current cost of the value of plant in service. For example, most would expect a replacement cost index embodying technological change to increase less rapidly than a reproduction cost index (or even to decrease). If that would happen, then using a replacement cost index to value plant at current cost would result in the plant's being smaller then when using a reproduction cost index.

Nonetheless, it should be pointed out that if markets were "perfect," a reproduction cost index would converge to a replacement cost index. That is because the prices of the "old" equipment should adjust to reflect quality and performance differences

between the old equipment and the new equipment. In that case, there would be little differences in which index was used.

I-D. The BSTPI

The ASITPI is meant to embody many of the attributes of the BSTPI. The two indexes though differ in certain respects. This sub-section presents some of the background of the BSTPI. The next sub-section will present some of the background of the ASITPI.

Prior to divestiture, the BSTPI was widely used and accepted, not only by the entire Bell System prior to divestiture but also by regulatory agencies in rate making and by the Federal government in its statistics. Components of the BSTPI were used by the U.S. Department of Commerce to estimate price indexes of telephone related components of the fixed business investment sections of gross national product. In rate making, regulatory agencies have used the BSTPI primarily to value plant at current cost. Within the Bell System, the components of the BSTPI have been used for capital budgeting, economic selection studies, and other purposes.

Portions of the BSTPI were first constructed by Western Electric in the 1920s. In 1954, the BSTPI was expanded when AT&T began a pilot study to develop outside plant indexes for a number of operating companies. In the late 1950s a committee was formed to construct the BSTPI on a continuing basis.

The methodology used to calculate the BSTPI was intended to follow that of the two major official U.S. price indexes--the CPI and PPI. In most regards it does. One exception relates to the weighting of the index.

The way the methodology used for the weighting procedure of the BSTPI differs from the one used for the CPI and PPI is in how

the weights are determined. The CPI and PPI use fixed quantity weights with changing prices to weight prices relatives (the ratio of the current period's price to the prior period's price). That is, each price relative of the CPI, or PPI, is weighted by the proportion of dollar expenditures on each item, but with the proportions re-stated to reflect the prior period's prices. Originally, that was the methodology for the BSTPI. In the early to mid-1970s, though, the BSTPI methodology was revised. The revised methodology was as follows: for the years within what was termed the "base period" band, the BSTPI the weighting procedure was the same as for U.S government indexes; outside the base period band, however, the weighting procedure was to weight price relatives using fixed quantities and fixed prices, with the fixed prices being the ones from the base year of the index. (The BSTPI weights were termed constant dollar weights.) The result of the weighting procedure was that in the base period band (formerly 1971-1981) which contains the year in which the BSTPI is set to 100 (formerly 1977), the BSTPI's revised weighting procedure made it theoretically comparable to the CPI and PPI. In other bands, though, (e.g., 1960-1970) the BSTPI was not comparable to the CPI or PPI.

I-E. The New ASITPI

The ASITPI in many ways continues to resemble the BSTPI. It is meant to be a reproduction index like the BSTPI, and like the BSTPI it is based on a fixed array of product types at least at the publication level of the index. Nonetheless, in the continuing efforts to improve the ASITPI, certain differences have emerged between the two. One such difference is the methodology used for weighting. At the publication level, the new ASITPI is much closer in spirit to the methodology used for the CPI or PPI, at least at the publication level of the index. The change in methodology was first incorporated into the new ASITPI in 1984. The methodology

was then extended to the entire pre-1984 portion of the index when the reference base and weight base were changed in 1988.

In 1992 a further change in methodology was instituted at a level below the publication level that is not found in the CPI or PPI. It was to use a weighting procedure known as the *Fisher's Ideal*. That procedure and the reasons for it will be described in Section II-A.

Another difference between the new ASITPI and the BSTPI is in how complex goods are priced. An example is switches, particularly today's complex digital ones. Those switches come in various configurations and their technology is constantly changing. A price index must reflect only pure price change from one period to the next. To accomplish that in the BSTPI, AT&T priced a model central office switch. A model was selected and priced each year as long as it was being supplied. Originally, the model was a switch in an actual central office somewhere in Illinois. Later, a hypothetical model, which was assumed to reflect the average switch, was drawn up. Each year Western Electric calculated the price it would charge to deliver and install that model.

After divestiture, another approach to measuring complex equipment prices was needed because both the number of major suppliers and availability of models with different technologies proliferated. The approach taken was that of specification pricing. That approach is comparable to the one taken by the U.S. government in collecting prices for the CPI and PPI. In that approach, a specification is written for an actual, frequently purchased item and the price of that item is tracked for as long as the specification does not change. The exact procedure that is used for the ASITPI is described in more detail in Section IV-C.1 and IV-C.2.

One current exception to the use of specification prices is the building component of the index and in the contractor services portion of outside plant. For those components, model pricing has been continued.