

*****GENERAL REWRITE - PLEASE READ CAREFULLY.*****

IOWA DOT INSPECTION COSTS

<u>Function Description</u>	<u>No. of Tests in 2006</u>	<u>2007 Avg. Cost Per Test</u>
Aggregate		
853 Certified Aggregate	5,261	158.62
856 Freeze - Thaw Tests	792	94.80
857 Abrasion Test	1,519	43.03
858 Coarse Aggregate Specific Gravity & Absorption	1,516	15.49
859 Fine Aggregate Specific Gravity & Absorption	340	25.21
860 Sieve Analysis & Plasticity Index	1,599	68.83
861 Deleterious Material Determination	1,116	10.62
862 AC Aggregate Specific Gravity & Absorption	100	122.94
863 Aggregate Miscellaneous	207	58.48
Asphalt Materials		
841 Materials Lab QMA	126	244.67
865 AC Binder Analysis (SHRP)	268	354.02
866 DSR or Penetration or Viscosity	923	38.49
867 Liquid Asphalt Complete Analysis	23	322.42
868 Liquid Asphalt Partial Analysis	150	57.92
870 Asphalt Type Joint	12	823.70
872 Asphalt Mix Lab Density	2,027	59.59
873 Asphalt Mix Max. Density	2,111	46.94
874 Asphalt Mix Extraction & Gradation	42	783.77
875 Asphalt Mix Stability	0	100.70
876 Asphalt Mix Special	8	1,016.63
877 Asphalt Mix Design	43	536.01
878 Asphalt Plant Calibration & Inspection	46	963.97
Cement		
882 Physical Cement Test	446	206.00
883 Fine Aggregate Mortar Strength	84	181.82
884 Lime - Fly Ash Physical Test	216	124.91
885 Miscellaneous	37	157.15
Chemical		
887 Concrete - Soil Chloride Determination	47	48.56
890 Lime - Fly Ash	207	85.81
891 Portland Cement	93	132.73
892 Calcium & Sodium Chloride & Deicers	11	100.21
893 Aggregate - Aluminum Oxide	1,265	45.89
894 Concrete Admixtures	409	71.26
895 Air Entraining Admixture	325	65.94
897 Miscellaneous Chemical Analysis	2	437.07

<u>Function Description</u>	<u>No. of Tests in 2006</u>	<u>2007 Avg. Cost Per Test</u>
Concrete		
840 Flowable Mortar	12	289.52
900 Coring, Strength & Air	85	48.60
901 Concrete Admixture Physical Test	0	0.00
902 Concrete Durability	0	2,078.85
903 Concrete Coring	480	134.84
904 Precast Bridge Beams	760	154.66
905 Precast Piling	64	13.64
906 Miscellaneous Precast Units	241	80.74
907 Concrete & Clay Pipe	121	136.79
908 Concrete Coating & Seal	0	79.75
909 Concrete Miscellaneous	396	408.16
910 Concrete Plant Calibration - Inspection	257	260.33
Field Testing		
898 Asbestos S & T	805	82.52
918 Concrete - Clay Pipe Tests	0	15.84
919 Pile Bearing Tests	0	0.00
921 Steel Cover Determination	0	0.00
922 Nuclear Test Materials & Construction	42	204.21
923 Profile Measurement (Bridge Decks)	24	381.96
924 Delamination Tests	0	0.00
Lighting & Signal		
930 Lighting Materials	51	262.49
931 Standard Light Poles	8	166.19
932 Tower Light Poles	0	0.00
933 Signal Materials	58	205.55
Metals		
934 Calibration of Tension & Compression Testers	19	459.45
936 Physical Test Structural Steel- Aluminum	38	836.81
937 Reinforcing Steel	328	146.13
938 Prestress Cables	130	170.32
939 Casting	103	266.60
940 Guardrail Cable, Rails & ACC	13	241.53
941 Calibration of Beam Breakers	200	115.92
942 Fence Material	4	145.83
943 Weld Tests Operator	75	237.33
944 Weld Test Fill Metal	83	192.99
945 Fasteners High Strength	799	26.52
946 Fasteners Miscellaneous	795	21.85
947 Steel & Aluminum Fabrication	3,229	94.05
948 Signing Materials	0	72.43
950 Metal Pipe & Access	0	0.00
951 Radiograph Exams	1,169	5.15
952 Miscellaneous Metals Testing	165	88.02

<u>Function Description</u>	<u>No. of Tests in 2006</u>	<u>2007 Avg. Cost Per Test</u>
Pavement Evaluation		
955 Pavement Ride Testing	652	53.12
956 Pavement Friction Testing	476	64.17
957 Pavement Deflection	1,431	109.75
958 Video Evaluation Testing	0	1,168.55
959 Test Equipment Calibrations	0	0.00
961 California Profilometer (Paving)	236	420.55
962 Crack & Patch Survey	70	518.91
963 Miscellaneous Pavement Evaluation	0	0.00
Physical Tests		
966 Drain Tile	21	190.24
968 Neoprene Bearing Pad	5	1,094.20
969 Neoprene Joint Seals	13	489.07
971 Glass Beads	4	285.87
972 Curing Compounds Non-AC	48	324.48
973 Miscellaneous Physical Tests	96	113.11
Physico-Chemical		
978 Paint & Ingredients	78	211.10
979 Protective Coating Tests	1,576	7.12
980 Mixing Water	32	38.50
982 Preform & Form Joint Filler	0	190.36
983 Carbon Analysis of Soil	347	9.24
984 Automotive Products	0	0.00
985 Fabrics	0	397.78
986 Miscellaneous Physical - Chemical Test	0	0.00
Soils		
990 Plasticity Index	1,223	32.07
991 Proctor Tests	466	27.08
992 Mechanical Analysis	1,223	13.14
993 Triaxial	129	121.42
994 Consolidation	129	44.67
996 Soil Cores	585	10.79
999 Pile Driving Analysis	0	0.00