

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

IOWA DOT INSPECTION COSTS

<u>Function Description</u>	<u>No. of Tests in 2008</u>	<u>2009 Avg. Cost Per Test</u>
Aggregate		
853 Certified Aggregate	4,772	160.62
856 Freeze - Thaw Tests	891	100.85
857 Abrasion Test	1,468	53.17
858 Coarse Aggregate Specific Gravity & Absorption	1,432	24.04
859 Fine Aggregate Specific Gravity & Absorption	440	35.76
860 Sieve Analysis & Plasticity Index	1,046	97.98
861 Deleterious Material Determination	1,343	10.68
862 AC Aggregate Specific Gravity & Absorption	82	142.06
863 Aggregate Miscellaneous	105	103.62
Asphalt Materials		
841 Materials Lab QMA	99	251.94
865 AC Binder Analysis (SHRP)	237	455.22
866 DSR or Penetration or Viscosity	779	54.60
867 Liquid Asphalt Complete Analysis	20	244.05
868 Liquid Asphalt Partial Analysis	138	99.16
870 Asphalt Type Joint	4	853.85
872 Asphalt Mix Lab Density	1,700	69.32
873 Asphalt Mix Max. Density	1,621	53.98
874 Asphalt Mix Extraction & Gradation	48	625.83
875 Asphalt Mix Stability	0	0.00
876 Asphalt Mix Special	0	1,093.21
877 Asphalt Mix Design	101	544.29
878 Asphalt Plant Calibration & Inspection	60	1,338.55
Cement		
882 Physical Cement Test	391	241.73
883 Fine Aggregate Mortar Strength	130	135.28
884 Lime - Fly Ash Physical Test	134	134.36
885 Miscellaneous	20	245.36
Chemical		
887 Concrete - Soil Chloride Determination	20	50.52
890 Lime - Fly Ash	149	88.52
891 Portland Cement	96	209.81
892 Calcium & Sodium Chloride & Deicers	3	723.92
893 Aggregate - Aluminum Oxide	1,185	52.36
894 Concrete Admixtures	332	76.68
895 Air Entraining Admixture	250	72.41
897 Miscellaneous Chemical Analysis	0	285.79

<u>Function Description</u>	<u>No. of Tests in 2008</u>	<u>2009 Avg. Cost Per Test</u>
Concrete		
840 Flowable Mortar	34	246.29
900 Coring, Strength & Air	152	44.18
901 Concrete Admixture Physical Test	0	0.00
902 Concrete Durability	0	1,654.69
903 Concrete Coring	383	174.27
904 Precast Bridge Beams	358	178.74
905 Precast Piling	14	17.92
906 Miscellaneous Precast Units	93	183.88
907 Concrete & Clay Pipe	99	344.30
908 Concrete Coating & Seal	12	8.53
909 Concrete Miscellaneous	618	630.27
910 Concrete Plant Calibration - Inspection	209	271.96
Field Testing		
898 Asbestos S & T	1,731	53.62
918 Concrete - Clay Pipe Tests	0	0.00
919 Pile Bearing Tests	0	0.00
921 Steel Cover Determination	0	0.00
922 Nuclear Test Materials & Construction	7	873.76
923 Profile Measurement (Bridge Decks)	30	466.25
924 Delamination Tests	0	0.00
Lighting & Signal		
930 Lighting Materials	146	312.59
931 Standard Light Poles	42	187.49
932 Tower Light Poles	0	0.00
933 Signal Materials	11	367.16
Metals		
934 Calibration of Tension & Compression Testers	22	434.91
936 Physical Test Structural Steel- Aluminum	15	386.70
937 Reinforcing Steel	360	208.41
938 Prestress Cables	123	177.70
939 Casting	14	277.59
940 Guardrail Cable, Rails & ACC	8	250.77
941 Calibration of Beam Breakers	8	456.43
942 Fence Material	26	167.05
943 Weld Tests Operator	195	332.42
944 Weld Test Fill Metal	8	473.89
945 Fasteners High Strength	507	40.48
946 Fasteners Miscellaneous	715	29.41
947 Steel & Aluminum Fabrication	4,419	100.01
948 Signing Materials	0	72.43
950 Metal Pipe & Access	0	49.86
951 Radiograph Exams	2,728	3.94
952 Miscellaneous Metals Testing	135	70.98

<u>Function Description</u>	<u>No. of Tests in 2008</u>	<u>2009 Avg. Cost Per Test</u>
Pavement Evaluation		
955 Pavement Ride Testing	282	194.31
956 Pavement Friction Testing	908	77.64
957 Pavement Deflection	2,471	85.21
958 Video Evaluation Testing	0	0.00
959 Test Equipment Calibrations	31	346.93
961 California Profilometer (Paving)	223	467.31
962 Crack & Patch Survey	87	238.69
963 Miscellaneous Pavement Evaluation	0	0.00
Physical Tests		
966 Drain Tile	48	187.44
968 Neoprene Bearing Pad	0	1,024.49
969 Neoprene Joint Seals	3	797.09
971 Glass Beads	0	593.20
972 Curing Compounds Non-AC	74	425.51
973 Miscellaneous Physical Tests	8	137.44
Physico-Chemical		
978 Paint & Ingredients	59	471.83
979 Protective Coating Tests	697	9.96
980 Mixing Water	21	54.69
982 Preform & Form Joint Filler	27	251.77
983 Carbon Analysis of Soil	176	13.37
984 Automotive Products	0	0.00
985 Fabrics	3	539.13
986 Miscellaneous Physical - Chemical Test	0	0.00
Soils		
990 Plasticity Index	1,108	29.84
991 Proctor Tests	204	29.40
992 Mechanical Analysis	1,123	11.93
993 Triaxial	250	112.44
994 Consolidation	250	46.52
996 Soil Cores	314	10.48
999 Pile Driving Analysis	0	0.00