

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

**IOWA DOT INSPECTION COSTS**

<b><u>Function Description</u></b>	<b><u>No. of Tests in 2010</u></b>	<b><u>2011 Avg. Cost Per Test</u></b>
<b>Aggregate</b>		
853 Certified Aggregate	4,470	154.30
856 Freeze - Thaw Tests	901	84.02
857 Abrasion Test	1,633	52.89
858 Coarse Aggregate Specific Gravity & Absorption	1,399	28.87
859 Fine Aggregate Specific Gravity & Absorption	444	50.39
860 Sieve Analysis & Plasticity Index	1,341	127.85
861 Deleterious Material Determination	1,449	10.43
862 AC Aggregate Specific Gravity & Absorption	89	172.64
863 Aggregate Miscellaneous	151	136.24
<b>Asphalt Materials</b>		
841 Materials Lab QMA	88	257.62
865 AC Binder Analysis (SHRP)	212	376.02
866 DSR or Penetration or Viscosity	660	71.91
867 Liquid Asphalt Complete Analysis	18	216.01
868 Liquid Asphalt Partial Analysis	219	116.21
870 Asphalt Type Joint	71	471.15
872 Asphalt Mix Lab Density	1,617	70.45
873 Asphalt Mix Max. Density	1,478	58.11
874 Asphalt Mix Extraction & Gradation	60	864.12
875 Asphalt Mix Stability	0	0.00
876 Asphalt Mix Special	15	1,542.85
877 Asphalt Mix Design	68	679.61
878 Asphalt Plant Calibration & Inspection	47	1,372.34
<b>Cement</b>		
882 Physical Cement Test	370	236.32
883 Fine Aggregate Mortar Strength	81	81.76
884 Lime - Fly Ash Physical Test	163	106.01
885 Miscellaneous	29	222.14
<b>Chemical</b>		
887 Concrete - Soil Chloride Determination	0	45.41
890 Lime - Fly Ash	176	105.26
891 Portland Cement	60	433.66
892 Calcium & Sodium Chloride & Deicers	3	1,072.06
893 Aggregate - Aluminum Oxide	1,309	61.39
894 Concrete Admixtures	354	83.02
895 Air Entraining Admixture	320	82.46
897 Miscellaneous Chemical Analysis	0	31.24

<u>Function Description</u>	<u>No. of Tests in 2010</u>	<u>2011 Avg. Cost Per Test</u>
<b>Concrete</b>		
840 Flowable Mortar	14	212.83
900 Coring, Strength & Air	159	17.85
901 Concrete Admixture Physical Test	0	0.00
902 Concrete Durability	17	4,194.59
903 Concrete Coring	316	175.92
904 Precast Bridge Beams	543	192.63
905 Precast Piling	35	14.29
906 Miscellaneous Precast Units	182	208.38
907 Concrete & Clay Pipe	90	302.66
908 Concrete Coating & Seal	2	339.28
909 Concrete Miscellaneous	351	701.69
910 Concrete Plant Calibration - Inspection	245	279.09
<b>Field Testing</b>		
898 Asbestos S & T	764	43.45
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	0	734.36
923 Profile Measurement (Bridge Decks)	40	581.69
924 Delamination Tests	0	0.00
<b>Lighting &amp; Signal</b>		
930 Lighting Materials	60	335.58
931 Standard Light Poles	188	38.52
932 Tower Light Poles	0	0.00
933 Signal Materials	38	788.80
<b>Metals</b>		
934 Calibration of Tension & Compression Testers	26	453.96
936 Physical Test Structural Steel- Aluminum	5	489.69
937 Reinforcing Steel	249	205.33
938 Prestress Cables	123	184.75
939 Casting	6	809.60
940 Guardrail Cable, Rails & ACC	8	177.23
941 Calibration of Beam Breakers	325	419.59
942 Fence Material	10	423.15
943 Weld Tests Operator	163	259.12
944 Weld Test Fill Metal	0	473.89
945 Fasteners High Strength	532	47.07
946 Fasteners Miscellaneous	611	30.85
947 Steel & Aluminum Fabrication	110	114.78
948 Signing Materials	0	72.43
950 Metal Pipe & Access	0	49.86
951 Radiograph Exams	0	3.06
952 Miscellaneous Metals Testing	101	58.70

<b><u>Function Description</u></b>	<b><u>No. of Tests in 2010</u></b>	<b><u>2011 Avg. Cost Per Test</u></b>
<b>Pavement Evaluation</b>		
955 Pavement Ride Testing	3,518	232.61
956 Pavement Friction Testing	3,556	59.39
957 Pavement Deflection	2,597	81.30
958 Video Evaluation Testing	0	0.00
959 Test Equipment Calibrations	0	346.93
961 California Profilometer (Paving)	244	523.43
962 Crack & Patch Survey	0	360.02
963 Miscellaneous Pavement Evaluation	0	0.00
<b>Physical Tests</b>		
966 Drain Tile	0	255.07
968 Neoprene Bearing Pad	3	1,064.74
969 Neoprene Joint Seals	0	636.10
971 Glass Beads	0	473.13
972 Curing Compounds Non-AC	75	481.34
973 Miscellaneous Physical Tests	67	105.84
<b>Physico-Chemical</b>		
978 Paint & Ingredients	4	443.41
979 Protective Coating Tests	1,544	9.95
980 Mixing Water	24	82.25
982 Preform & Form Joint Filler	0	166.07
983 Carbon Analysis of Soil	212	15.33
984 Automotive Products	0	0.00
985 Fabrics	0	383.74
986 Miscellaneous Physical - Chemical Test	0	0.00
<b>Soils</b>		
990 Plasticity Index	910	33.52
991 Proctor Tests	199	44.51
992 Mechanical Analysis	910	11.24
993 Triaxial	145	104.39
994 Consolidation	145	58.50
996 Soil Cores	379	10.23
999 Pile Driving Analysis	0	0.00