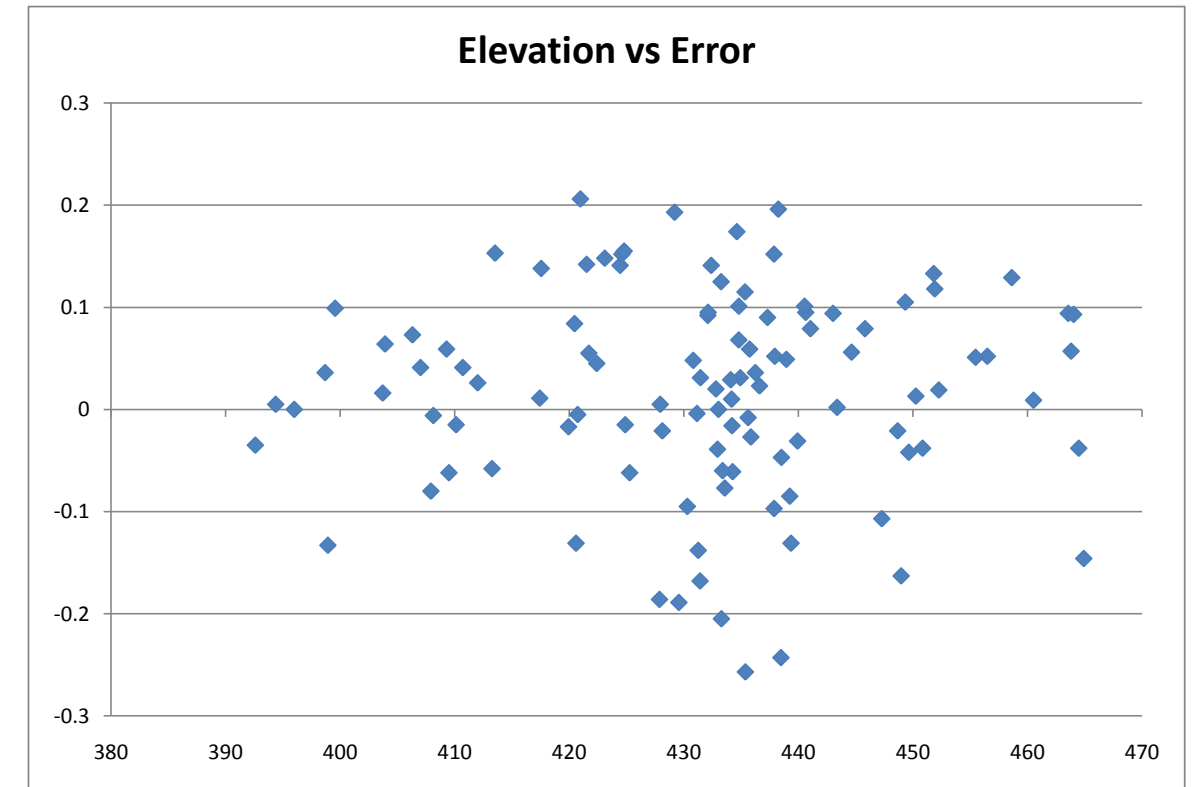
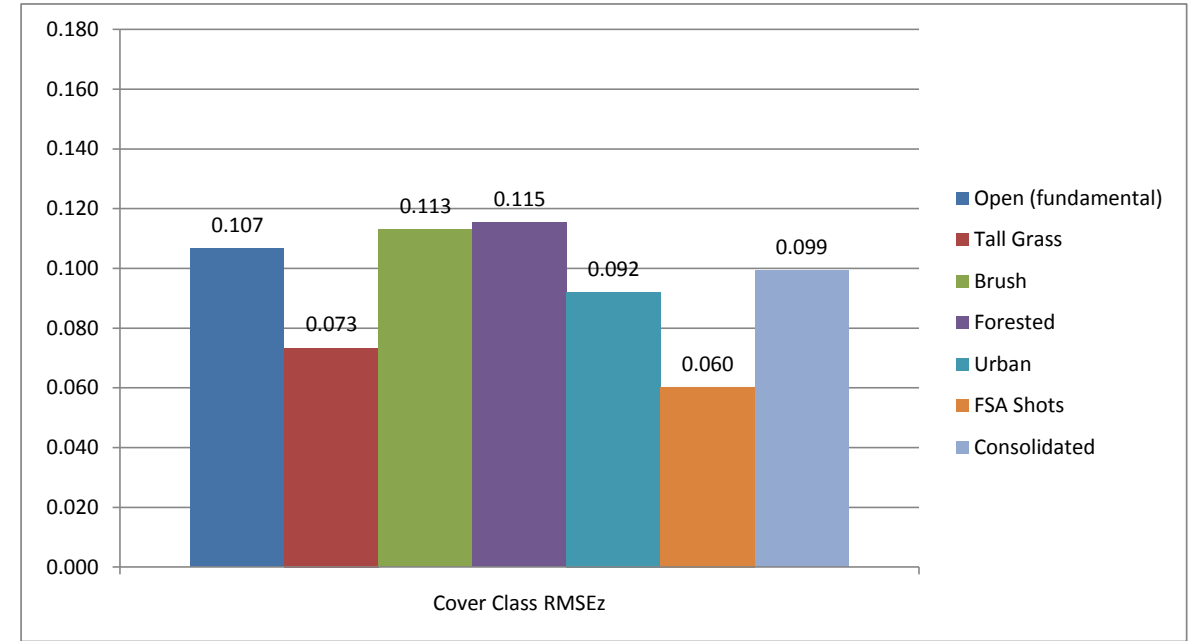


5/17/2011

Point Code	X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error
FSA Target 1 Jackson-1803	345326.975	4821485.183	403.922	403.858	0.064	0.004096	0.064
FSA Target 2 Jackson-1804	345977.203	4850353.966	417.428	417.417	0.011	0.000121	0.011
FSA Target 3 Jackson-1805	308847.058	4851316.082	435.861	435.888	-0.027	0.000729	0.027
FSA Target 4 Jackson-1806	308159.226	4823884.704	463.573	463.479	0.094	0.008836	0.094
FSA Target 5 Jackson-1807	324712.527	4837366.472	449.647	449.689	-0.042	0.001764	0.042
FSA Target 601 Jackson-1808	339867.292	4834295.555	441.061	440.982	0.079	0.006241	0.079
L10-1700	335852.83	4831278.998	440.644	440.549	0.095	0.009025	0.095
L10-1701	330781.804	4824159.56	435.349	435.234	0.115	0.013225	0.115
L10-1706	316223.34	4823737.943	449.341	449.236	0.105	0.011025	0.105
L10-1707	308153.965	4823931.301	464.039	463.946	0.093	0.008649	0.093
L10-1708	303606.171	4835313.898	456.503	456.451	0.052	0.002704	0.052
L10-1710	316517.417	4835016.747	437.878	437.726	0.152	0.023104	0.152
L10-1714	327826.534	4834700.847	458.639	458.51	0.129	0.016641	0.129
L10-1717	334486.907	4840952.946	443.034	442.94	0.094	0.008836	0.094
L10-1720	328239.366	4852380.537	434.809	434.708	0.101	0.010201	0.101
L10-1722	320163.636	4852653.029	435.749	435.69	0.059	0.003481	0.059
L10-1728	308933.916	4854526.206	440.547	440.446	0.101	0.010201	0.101
L10-1732	308685.864	4844871.067	437.311	437.221	0.09	0.0081	0.09
L10-1737	316796.667	4843086.235	433.259	433.134	0.125	0.015625	0.125
L10-1739	345766.24	4842322.699	413.525	413.372	0.153	0.023409	0.153
L10-1745	345977.234	4850353.972	417.554	417.416	0.138	0.019044	0.138
L10-1747	339612.494	4855318.228	421.715	421.66	0.055	0.003025	0.055
L10-1754	328059.417	4844356.282	451.823	451.69	0.133	0.017689	0.133
L10-1775	324186.41	4818888.068	445.822	445.743	0.079	0.006241	0.079
L10-1781	348767.436	4831034.46	420.465	420.381	0.084	0.007056	0.084
L10-1785	344948.923	4821482.939	399.562	399.463	0.099	0.009801	0.099
L2T-1703	328305.276	4823074.337	434.177	434.167	0.01	0.0001	0.01
L2T-1705	323899.334	4821214.848	436.612	436.589	0.023	0.000529	0.023
L2T-1709	316001.358	4835092.334	431.424	431.592	-0.168	0.028224	0.168
L2T-1713	323088.294	4833275.93	439.253	439.338	-0.085	0.007225	0.085
L2T-1716	329626.745	4838303.807	463.819	463.762	0.057	0.003249	0.057
L2T-1718	332526.412	4850701.534	432.811	432.791	0.02	0.0004	0.02
L2T-1721	322349.978	4850833.711	439.935	439.966	-0.031	0.000961	0.031
L2T-1729	308940.843	4857149.311	425.277	425.339	-0.062	0.003844	0.062
L2T-1733	310336.48	4844871.219	434.211	434.227	-0.016	0.000256	0.016
L2T-1738	344928.122	4840691.702	420.592	420.723	-0.131	0.017161	0.131
L2T-1740	345021.863	4845517.845	410.124	410.139	-0.015	0.000225	0.015
L2T-1742	345964.106	4848853.538	410.705	410.664	0.041	0.001681	0.041
L2T-1748	333452.487	4855433.322	434.934	434.903	0.031	0.000961	0.031
L2T-1753	330901.677	4842585.469	460.538	460.529	0.009	0.000081	0.009
L2T-1769	321438.855	4837692.567	434.263	434.324	-0.061	0.003721	0.061
L2T-1770	317667.12	4828599.192	427.882	428.068	-0.186	0.034596	0.186
L2T-1773	329287.128	4830275.807	450.264	450.251	0.013	0.000169	0.013
L2T-1782	348565.545	4823765.082	412.007	411.981	0.026	0.000676	0.026
L2T-1784	347485.05	4819667.474	413.261	413.319	-0.058	0.003364	0.058
L2T-1789	340147.714	4825591.692	419.937	419.954	-0.017	0.000289	0.017
L3B-1702	330755.471	4824178.834	433.287	433.492	-0.205	0.042025	0.205
L3B-1711	322987.111	4830498.648	433.03	433.03	0	0	0
L3B-1712	323157.572	4833260.908	438.529	438.576	-0.047	0.002209	0.047
L3B-1715	330071.64	4837923.338	464.487	464.525	-0.038	0.001444	0.038



L3B-1719	331749.051	4851025.91	407.922	408.002	-0.08	0.0064	0.08
L3B-1723	321590.435	4852653.076	437.888	437.985	-0.097	0.009409	0.097
L3B-1727	307524.822	4851386.745	435.382	435.639	-0.257	0.066049	0.257
L3B-1730	311973.636	4850381.27	430.31	430.405	-0.095	0.009025	0.095
L3B-1731	311434.108	4844818.969	434.1	434.071	0.029	0.000841	0.029
L3B-1741	342703.88	4847764.001	409.498	409.56	-0.062	0.003844	0.062
L3B-1743	348888.338	4848702.191	395.993	395.993	0	0	0
L3B-1749	333125.906	4852860.701	420.738	420.743	-0.005	0.000025	0.005
L3B-1751	334534.265	4842311.618	438.485	438.728	-0.243	0.059049	0.243
L3B-1755	321953.727	4841758.637	434.807	434.739	0.068	0.004624	0.068
L3B-1756	332943.667	4837737.45	448.673	448.694	-0.021	0.000441	0.021
L3B-1765	337017.876	4837686.793	437.949	437.897	0.052	0.002704	0.052
L3B-1771	317991.634	4826897.384	429.573	429.762	-0.189	0.035721	0.189
L3B-1772	326094.597	4828610.992	447.291	447.398	-0.107	0.011449	0.107
L3B-1787	347016.006	4824821.514	427.944	427.939	0.005	0.000025	0.005
L3B-1788	343067.454	4826319.146	424.89	424.905	-0.015	0.000225	0.015
L4F-1704	330347.034	4821081.164	432.101	432.009	0.092	0.008464	0.092
L4F-1744	349223.053	4848745.396	394.371	394.366	0.005	0.000025	0.005
L4F-1746	346152.022	4851941.462	408.134	408.14	-0.006	0.000036	0.006
L4F-1750	334457.893	4843266.585	403.712	403.696	0.016	0.000256	0.016
L4F-1752	333580.002	4844062.692	434.637	434.463	0.174	0.030276	0.174
L4F-1774	336974.488	4835324.947	409.289	409.23	0.059	0.003481	0.059
L4F-1776	328710.765	4821677.453	431.153	431.157	-0.004	0.000016	0.004
L4F-1780	348816.666	4832619.611	420.975	420.769	0.206	0.042436	0.206
L4F-1786	344991.142	4821128.775	392.594	392.629	-0.035	0.001225	0.035
L4F-1791	335618.609	4823799.738	424.443	424.302	0.141	0.019881	0.141
L4F-1792	328542.25	4818642.245	429.2	429.007	0.193	0.037249	0.193
L4F-1794	316563.268	4820504.227	450.85	450.888	-0.038	0.001444	0.038
L4F-1795	308108.021	4821959.925	464.925	465.071	-0.146	0.021316	0.146
L4F-1796	331593.618	4850996.705	406.311	406.238	0.073	0.005329	0.073
L4F-1797	333207.601	4857055.216	424.598	424.446	0.152	0.023104	0.152
L4F-1798	322688.718	4854168.892	438.259	438.063	0.196	0.038416	0.196
L4F-1799	312834.815	4854374.067	432.947	432.986	-0.039	0.001521	0.039
L4F-1800	302377.977	4838557.269	448.978	449.141	-0.163	0.026569	0.163
L4F-1801	317091.983	4838246.513	436.252	436.216	0.036	0.001296	0.036
L4F-1802	316297.675	4831828.619	444.649	444.593	0.056	0.003136	0.056
L5U-1724	313570.262	4851933.95	432.125	432.03	0.095	0.009025	0.095
L5U-1725	313797.065	4851503.697	431.455	431.424	0.031	0.000961	0.031
L5U-1726	313471.47	4851176.68	430.829	430.781	0.048	0.002304	0.048
L5U-1734	313312.099	4845533.218	433.39	433.45	-0.06	0.0036	0.06
L5U-1735	313445.57	4845827.22	432.397	432.256	0.141	0.019881	0.141
L5U-1736	313586.052	4845532.106	433.582	433.659	-0.077	0.005929	0.077
L5U-1757	339416.192	4831708.991	407.015	406.974	0.041	0.001681	0.041
L5U-1758	339749.058	4832142.187	398.686	398.65	0.036	0.001296	0.036
L5U-1759	340362.221	4832441.84	439.365	439.496	-0.131	0.017161	0.131
L5U-1760	340431.117	4831373.652	435.621	435.629	-0.008	0.000064	0.008
L5U-1761	339624.992	4830611.707	398.929	399.062	-0.133	0.017689	0.133
L5U-1762	338620.423	4831236.995	428.129	428.15	-0.021	0.000441	0.021
L5U-1763	338779.07	4830831.775	431.265	431.403	-0.138	0.019044	0.138
L5U-1764	339023.499	4833632.569	438.959	438.91	0.049	0.002401	0.049
L5U-1766	325061.665	4839033.661	452.268	452.249	0.019	0.000361	0.019
L5U-1767	324860.43	4838590.846	451.914	451.796	0.118	0.013924	0.118
L5U-1768	325065.045	4837782.003	455.476	455.425	0.051	0.002601	0.051
L5U-1776	349077.972	4833499.707	422.399	422.354	0.045	0.002025	0.045

L5U-1777	349187.073	4833393.702	423.102	422.954	0.148	0.021904	0.148
L5U-1778	349001.194	4833258.828	421.516	421.374	0.142	0.020164	0.142
L5U-1783	348881.947	4818165.4	424.794	424.639	0.155	0.024025	0.155
L5U-1793	323646.183	4818734.208	443.389	443.387	0.002	0.000004	0.002
				Mean Squared Error		0.010	
				Z-RMSE		0.099	
				NSSDA		0.195	
				Min Z-Error		0	
				Max Z-Error		0.257	

Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error	
Tim Loesch - MN DNR	335852.8	4831279	440.644	440.549	0.095	0.009025	0.095
5/17/2011	330781.8	4824160	435.349	435.234	0.115	0.013225	0.115
L10-1706	316223.3	4823738	449.341	449.236	0.105	0.011025	0.105
L10-1707	308154	4823931	464.039	463.946	0.093	0.008649	0.093
L10-1708	303606.2	4835314	456.503	456.451	0.052	0.002704	0.052
L10-1710	316517.4	4835017	437.878	437.726	0.152	0.023104	0.152
L10-1714	327826.5	4834701	458.639	458.51	0.129	0.016641	0.129
L10-1717	334486.9	4840953	443.034	442.94	0.094	0.008836	0.094
L10-1720	328239.4	4852381	434.809	434.708	0.101	0.010201	0.101
L10-1722	320163.6	4852653	435.749	435.69	0.059	0.003481	0.059
L10-1728	308933.9	4854526	440.547	440.446	0.101	0.010201	0.101
L10-1732	308685.9	4844871	437.311	437.221	0.09	0.0081	0.09
L10-1737	316796.7	4843086	433.259	433.134	0.125	0.015625	0.125
L10-1739	345766.2	4842323	413.525	413.372	0.153	0.023409	0.153
L10-1745	345977.2	4850354	417.554	417.416	0.138	0.019044	0.138
L10-1747	339612.5	4855318	421.715	421.66	0.055	0.003025	0.055
L10-1754	328059.4	4844356	451.823	451.69	0.133	0.017689	0.133
L10-1775	324186.4	4818888	445.822	445.743	0.079	0.006241	0.079
L10-1781	348767.4	4831034	420.465	420.381	0.084	0.007056	0.084
L10-1785	344948.9	4821483	399.562	399.463	0.099	0.009801	0.099
				Mean Squared Error	0.011		
				Z-RMSE	0.107		
				NSSDA	0.209		
				Min Z-Error	0.052		
				Max Z-Error	0.153		

Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error	
Tim Loesch - MN DNR	328305.3	4823074	434.177	434.167	0.01	0.0001	0.01
5/17/2011	323899.3	4821215	436.612	436.589	0.023	0.000529	0.023
L2T-1709	316001.4	4835092	431.424	431.592	-0.168	0.028224	0.168
L2T-1713	323088.3	4833276	439.253	439.338	-0.085	0.007225	0.085
L2T-1716	329626.7	4838304	463.819	463.762	0.057	0.003249	0.057
L2T-1718	332526.4	4850702	432.811	432.791	0.02	0.0004	0.02
L2T-1721	322350	4850834	439.935	439.966	-0.031	0.000961	0.031
L2T-1729	308940.8	4857149	425.277	425.339	-0.062	0.003844	0.062
L2T-1733	310336.5	4844871	434.211	434.227	-0.016	0.000256	0.016
L2T-1738	344928.1	4840692	420.592	420.723	-0.131	0.017161	0.131
L2T-1740	345021.9	4845518	410.124	410.139	-0.015	0.000225	0.015
L2T-1742	345964.1	4848854	410.705	410.664	0.041	0.001681	0.041
L2T-1748	333452.5	4855433	434.934	434.903	0.031	0.000961	0.031
L2T-1753	330901.7	4842585	460.538	460.529	0.009	0.000081	0.009
L2T-1769	321438.9	4837693	434.263	434.324	-0.061	0.003721	0.061
L2T-1770	317667.1	4828599	427.882	428.068	-0.186	0.034596	0.186
L2T-1773	329287.1	4830276	450.264	450.251	0.013	0.000169	0.013
L2T-1782	348565.5	4823765	412.007	411.981	0.026	0.000676	0.026
L2T-1784	347485.1	4819667	413.261	413.319	-0.058	0.003364	0.058
L2T-1789	340147.7	4825592	419.937	419.954	-0.017	0.000289	0.017
				Mean Squared Error	0.005		
				Z-RMSE	0.073		
				NSSDA	0.144		
				Min Z-Error	0.009		
				Max Z-Error	0.186		

Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error	
Tim Loesch - MN DNR	330755.471	4824178.834	433.287	433.492	-0.205	0.042025	0.205
5/17/2011	322987.111	4830498.648	433.03	433.03	0	0	0
L3B-1712	323157.572	4833260.908	438.529	438.576	-0.047	0.002209	0.047
L3B-1715	330071.64	4837923.338	464.487	464.525	-0.038	0.001444	0.038
L3B-1719	331749.051	4851025.91	407.922	408.002	-0.08	0.0064	0.08
L3B-1723	321590.435	4852653.076	437.888	437.985	-0.097	0.009409	0.097
L3B-1727	307524.822	4851386.745	435.382	435.639	-0.257	0.066049	0.257
L3B-1730	311973.636	4850381.27	430.31	430.405	-0.095	0.009025	0.095
L3B-1731	311434.108	4844818.969	434.1	434.071	0.029	0.000841	0.029
L3B-1741	342703.88	4847764.001	409.498	409.56	-0.062	0.003844	0.062
L3B-1743	348888.338	4848702.191	395.993	395.993	0	0	0
L3B-1749	333125.906	4852860.701	420.738	420.743	-0.005	0.000025	0.005
L3B-1751	334534.265	4842311.618	438.485	438.728	-0.243	0.059049	0.243
L3B-1755	321953.727	4841758.637	434.807	434.739	0.068	0.004624	0.068
L3B-1756	332943.667	4837737.45	448.673	448.694	-0.021	0.000441	0.021
L3B-1765	337017.876	4837686.793	437.949	437.897	0.052	0.002704	0.052
L3B-1771	317991.634	4826897.384	429.573	429.762	-0.189	0.035721	0.189
L3B-1772	326094.597	4828610.992	447.291	447.398	-0.107	0.011449	0.107
L3B-1787	347016.006	4824821.514	427.944	427.939	0.005	0.000025	0.005
L3B-1788	343067.454	4826319.146	424.89	424.905	-0.015	0.000225	0.015
				Mean Squared Error		0.013	
				Z-RMSE		0.113	
				NSSDA		0.222	
				Min Z-Error		0	
				Max Z-Error		0.257	

Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error	
Tim Loesch - MN DNR	330347	4821081	432.101	432.009	0.092	0.008464	0.092
5/17/2011	349223.1	4848745	394.371	394.366	0.005	0.000025	0.005
L4F-1746	346152	4851941	408.134	408.14	-0.006	0.000036	0.006
L4F-1750	334457.9	4843267	403.712	403.696	0.016	0.000256	0.016
L4F-1752	333580	4844063	434.637	434.463	0.174	0.030276	0.174
L4F-1774	336974.5	4835325	409.289	409.23	0.059	0.003481	0.059
L4F-1776	328710.8	4821677	431.153	431.157	-0.004	0.000016	0.004
L4F-1780	348816.7	4832620	420.975	420.769	0.206	0.042436	0.206
L4F-1786	344991.1	4821129	392.594	392.629	-0.035	0.001225	0.035
L4F-1791	335618.6	4823800	424.443	424.302	0.141	0.019881	0.141
L4F-1792	328542.3	4818642	429.2	429.007	0.193	0.037249	0.193
L4F-1794	316563.3	4820504	450.85	450.888	-0.038	0.001444	0.038
L4F-1795	308108	4821960	464.925	465.071	-0.146	0.021316	0.146
L4F-1796	331593.6	4850997	406.311	406.238	0.073	0.005329	0.073
L4F-1797	333207.6	4857055	424.598	424.446	0.152	0.023104	0.152
L4F-1798	322688.7	4854169	438.259	438.063	0.196	0.038416	0.196
L4F-1799	312834.8	4854374	432.947	432.986	-0.039	0.001521	0.039
L4F-1800	302378	4838557	448.978	449.141	-0.163	0.026569	0.163
L4F-1801	317092	4838247	436.252	436.216	0.036	0.001296	0.036
L4F-1802	316297.7	4831829	444.649	444.593	0.056	0.003136	0.056
				Mean Squared Error	0.013		
				Z-RMSE	0.115		
				NSSDA	0.226		
				Min Z-Error	0.004		
				Max Z-Error	0.206		

Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squared	Absolute Z-Error	
Tim Loesch - MN DNR	313570.3	4851934	432.125	432.03	0.095	0.009025	0.095
5/17/2011	313797.1	4851504	431.455	431.424	0.031	0.000961	0.031
L5U-1726	313471.5	4851177	430.829	430.781	0.048	0.002304	0.048
L5U-1734	313312.1	4845533	433.39	433.45	-0.06	0.0036	0.06
L5U-1735	313445.6	4845827	432.397	432.256	0.141	0.019881	0.141
L5U-1736	313586.1	4845532	433.582	433.659	-0.077	0.005929	0.077
L5U-1757	339416.2	4831709	407.015	406.974	0.041	0.001681	0.041
L5U-1758	339749.1	4832142	398.686	398.65	0.036	0.001296	0.036
L5U-1759	340362.2	4832442	439.365	439.496	-0.131	0.017161	0.131
L5U-1760	340431.1	4831374	435.621	435.629	-0.008	0.000064	0.008
L5U-1761	339625	4830612	398.929	399.062	-0.133	0.017689	0.133
L5U-1762	338620.4	4831237	428.129	428.15	-0.021	0.000441	0.021
L5U-1763	338779.1	4830832	431.265	431.403	-0.138	0.019044	0.138
L5U-1764	339023.5	4833633	438.959	438.91	0.049	0.002401	0.049
L5U-1766	325061.7	4839034	452.268	452.249	0.019	0.000361	0.019
L5U-1767	324860.4	4838591	451.914	451.796	0.118	0.013924	0.118
L5U-1768	325065	4837782	455.476	455.425	0.051	0.002601	0.051
L5U-1776	349078	4833500	422.399	422.354	0.045	0.002025	0.045
L5U-1777	349187.1	4833394	423.102	422.954	0.148	0.021904	0.148
L5U-1778	349001.2	4833259	421.516	421.374	0.142	0.020164	0.142
L5U-1783	348881.9	4818165	424.794	424.639	0.155	0.024025	0.155
L5U-1793	323646.2	4818734	443.389	443.387	0.002	0.000004	0.002
				Mean Squa	0.008		
				Z-RMSE	0.092		
				NSSDA	0.180		
				Min Z-Error	0.002		
				Max Z-Error	0.155		



Jackson County, MN Vertical Validation Repc X	Y	Z	Surface Z	Z-Error	Z-Error Squ	Absolute Z-Error	
Tim Loesch - MN DNR	345327	4821485	403.922	403.858	0.064	0.004096	0.064
5/17/2011	345977.2	4850354	417.428	417.417	0.011	0.000121	0.011
FSA Target 3 Jackson-1805	308847.1	4851316	435.861	435.888	-0.027	0.000729	0.027
FSA Target 4 Jackson-1806	308159.2	4823885	463.573	463.479	0.094	0.008836	0.094
FSA Target 5 Jackson-1807	324712.5	4837366	449.647	449.689	-0.042	0.001764	0.042
FSA Target 601 Jackson-1808	339867.3	4834296	441.061	440.982	0.079	0.006241	0.079
				Mean Squa	0.004		
				Z-RMSE	0.060		
				NSSDA	0.118		
				Min Z-Error	0.011		
				Max Z-Error	0.094		