

GROUND CONTROL SURVEY REPORT

GPS SURVEY FOR LIDAR CONTROL

ETCY HQTF 'COUNTY, WI WROC LIDAR SURVEY

ETCY HQTF 'COUNTY, WISCONSIN

Services provided by:



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ABSTRACT

This report documents the GPS ground surveys conducted in support of FEMA accuracy testing of the lidar data collection for Crawford County, Wisconsin, in 2012. Surveys were conducted at 5 sites utilizing the base stations established in the static network. These surveys established “ground truth” data at each site on different surface types, including bare earth, low grass, brush lands, low trees, forest, high grass, weeds, crops, and urban areas. Statistical comparisons were made between ground truth points collected from the ground survey and the elevation at the associated horizontal coordinates represented on the LiDAR-derived digital terrain model.

SAMPLE POINTS/TEST POINTS

The ground survey test points were distributed and categorized into sites as shown in the Test Survey Locations map on the next page.

DATA ANALYSIS

To qualify as an acceptable accuracy test, the lidar data must be compared with a dataset of higher accuracy – in this instance ground survey. To develop a comparable dataset of points from the lidar dataset, a utility from proprietary software was used.

The ground control survey results were imported into an ESRI Pointz shapefile with each point’s information as attributes. The utility then accessed the lidar and generated a triangulated irregular network (TIN), which is a continuous digital terrain surface, using the bare-earth lidar points and the compiled breaklines. The utility probed the TIN surface to determine its elevations at each of the survey point’s horizontal locations.

The elevation was then appended as a field to the Pointz shapefile; the attributes for each point were exported to a database; and then statistical analysis was performed. The results can be seen on the following pages.

OVERALL ACCURACY

A comparison of ground survey versus lidar model values indicates a vertical root mean square error (RMSEz) of 0.379 feet. This is within the FEMA specified vertical accuracy tolerance of 0.6. This RMSEz equates to a tested 0.74284 feet vertical accuracy at 95% confidence level.

GROUND TRUTH ANALYSIS
Comparison of Lidar Points to Ground-Truth Points
Crawford County Coordinate System WISCRS
NAD 83 HARN / NAVD 88, survey feet

Field definitions

Name – The designation given to the ground survey point to identify it with its coordinates and land cover type

X, Y, and Z – The coordinates that describe the point's horizontal and vertical location within the Crawford County WISCRS Coordinate System. The X and Y values are shared between the ground control points and lidar comparison points. The Z field shows the elevation of the survey number. The lidar comparison point's elevation is implicit in the analysis' delta Z

Delta Z – The error, the difference between the elevation at a horizontal location as determined by ground survey and as determined by the lidar dataset

Delta Z Squared – The value of squaring Delta Z

Land Cover – The predominant land cover category at the location of the survey point

Statistic definitions

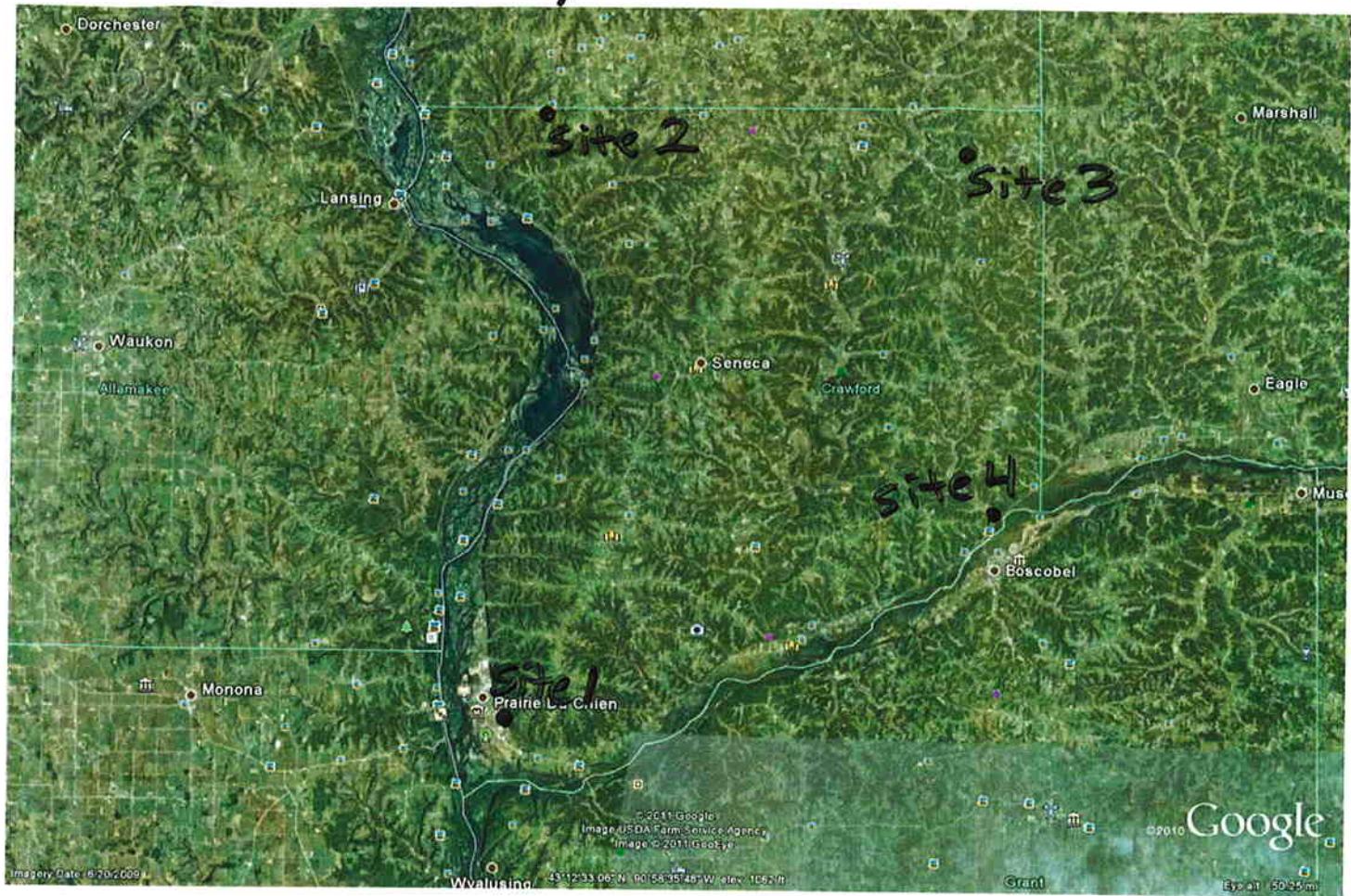
Sum – The sum of the analysis' Delta Z Squared values

Average – The average of the analysis' Delta Z Squared values

RMSE – The root mean squared error, the square root of the average of the squared errors

Accuracyz – The product of multiplying the RMSE with 1.96, a conversion between the RMSE value and a value with a 95% confidence level

Crawford County LiDAR-check Site Locations



ID	Y	X	Z	DESC_	LASER_Z	DZ
1190	111973	320877.2	647.62	CP NGS MC	647.57	-0.05
5344	135003.4	319301.3	636.27	CP NGS MC	636.32	0.05
5167	257596.6	329673.8	1146.8	CP NGS MC	1146.79	-0.01
5166	250811.9	351520.5	1125	CP NGS MC	1125	0
5358	240130.7	417065.1	1149	CP NGS MC	1148.98	-0.02
5359	239530.8	435029.4	1165	CP NGS MC	1164.71	-0.29
4988	247602.4	399887.5	1145.79	CP NGS MC	1145.65	-0.14
5055	164218.7	420082.2	1113.34	CP NGS MC	1113.6	0.26
5368	179941.7	434160.5	1112.6	CP NGS MC	1112.86	0.26
1308	159980.2	441972.4	667.55	CP NGS MC	0	0
1001	240156.8	417093.7	1146.43	TALL GRAS	1146.57	0.14
1002	240155.3	417096.7	1146.27	TALL GRAS	1146.23	-0.04
1003	240154.2	417099.9	1146.22	TALL GRAS	1146.37	0.15
1004	240153	417102.2	1146.19	TALL GRAS	1146.49	0.3
1005	240151.7	417105	1145.97	TALL GRAS	1146.16	0.19
1006	240148.3	417103.2	1146.25	TALL GRAS	1146.44	0.19
1007	240150.6	417100.4	1146.35	TALL GRAS	1146.47	0.12
1008	240152.1	417098	1146.44	TALL GRAS	1146.31	-0.13
1009	240154.2	417095.9	1146.46	TALL GRAS	1146.33	-0.13
1010	240156.1	417093.7	1146.6	TALL GRAS	1146.55	-0.05
1011	240153.7	417091.5	1146.65	TALL GRAS	1146.65	0
1012	240152	417094.2	1146.44	TALL GRAS	1146.52	0.08
1013	240150	417096.8	1146.25	TALL GRAS	1146.28	0.03
1014	240148.3	417099.2	1146.25	TALL GRAS	1146.37	0.12
1015	240146.2	417101.9	1146.4	TALL GRAS	1146.59	0.19
1016	240143.4	417100.3	1146.34	TALL GRAS	1146.6	0.26
1017	240145.6	417097.5	1146.38	TALL GRAS	1146.38	0
1018	240146.7	417094.4	1146.59	TALL GRAS	1146.7	0.11
1019	240147.8	417092.1	1146.6	TALL GRAS	1146.69	0.09
1020	240149	417089.6	1146.62	TALL GRAS	1146.64	0.02
1021	240146	417088.9	1146.78	TALL GRAS	1146.81	0.03
1022	240144.5	417091.6	1146.81	TALL GRAS	1146.87	0.06
1023	240142.7	417094	1146.71	TALL GRAS	1146.9	0.19
1024	240140.8	417096.2	1146.7	TALL GRAS	1146.81	0.11
1025	240139.4	417098.2	1146.8	TALL GRAS	1146.72	-0.08
1026	240009	417086.2	1153.83	BRUSH/LO\	1154.4	0.57
1027	240007.6	417089.3	1154.06	BRUSH/LO\	1154.3	0.24
1028	240005.3	417091.7	1154.11	BRUSH/LO\	1154.78	0.67
1029	240002.8	417094.4	1154.41	BRUSH/LO\	1154.63	0.22
1030	240000.5	417097.6	1154.37	BRUSH/LO\	1154.31	-0.06
1031	240003	417099.2	1154.27	BRUSH/LO\	1154.14	-0.13
1032	240005	417097	1154.07	BRUSH/LO\	1154.54	0.47
1033	240006.6	417094.3	1153.74	BRUSH/LO\	1154.84	1.1
1034	240008.6	417091.8	1154.01	BRUSH/LO\	1154.59	0.58
1035	240010.3	417089.4	1153.9	BRUSH/LO\	1154.21	0.31
1036	240012.7	417091.4	1153.73	BRUSH/LO\	1154.23	0.5

1037	240011.6	417093.8	1153.85	BRUSH/LO\	1154.41	0.56
1038	240010.2	417097.4	1153.81	BRUSH/LO\	1154.81	1
1039	240008.6	417100.4	1153.99	BRUSH/LO\	1154.6	0.61
1040	240006.9	417104	1153.98	BRUSH/LO\	1154.09	0.11
1041	240009.6	417105.5	1154.07	BRUSH/LO\	1153.86	-0.21
1042	240011.2	417102.5	1153.96	BRUSH/LO\	1154.18	0.22
1043	240013	417100.1	1153.93	BRUSH/LO\	1154.44	0.51
1044	240015.6	417096.6	1153.89	BRUSH/LO\	1154.16	0.27
1045	240017.1	417094.9	1153.77	BRUSH/LO\	1154.05	0.28
1046	240019.8	417097.2	1153.47	BRUSH/LO\	1153.92	0.45
1047	240018.1	417099.3	1153.65	BRUSH/LO\	1154.05	0.4
1048	240016.7	417102.6	1153.66	BRUSH/LO\	1154.35	0.69
1049	240015	417105.3	1153.87	BRUSH/LO\	1154.13	0.26
1050	240012.9	417108.6	1153.76	BRUSH/LO\	1153.92	0.16
1051	244663.4	419296.3	759.67	MOWED GI	759.46	-0.21
1052	244664.9	419299.1	759.84	MOWED GI	759.46	-0.38
1053	244666.4	419301.4	759.79	MOWED GI	759.47	-0.32
1054	244667.6	419303.7	759.79	MOWED GI	759.5	-0.29
1055	244668.9	419305.7	759.78	MOWED GI	759.5	-0.28
1056	244666	419307.2	759.68	MOWED GI	759.49	-0.19
1057	244664.4	419304.3	759.82	MOWED GI	759.5	-0.32
1058	244663.5	419302.3	759.75	MOWED GI	759.48	-0.27
1059	244661.8	419300	759.77	MOWED GI	759.47	-0.3
1060	244660.5	419297.8	759.68	MOWED GI	759.36	-0.32
1061	244657.6	419299.2	759.69	MOWED GI	759.48	-0.21
1062	244660	419302.2	759.69	MOWED GI	759.53	-0.16
1063	244661.4	419304.5	759.75	MOWED GI	759.53	-0.22
1064	244662.4	419306.9	759.79	MOWED GI	759.5	-0.29
1065	244663.5	419309.3	759.84	MOWED GI	759.41	-0.43
1066	244660.6	419310.1	759.81	MOWED GI	759.48	-0.33
1067	244659.4	419307.1	759.91	MOWED GI	759.51	-0.4
1068	244658.1	419304.8	759.76	MOWED GI	759.5	-0.26
1069	244656.5	419302.7	759.67	MOWED GI	759.42	-0.25
1070	244655.5	419300	759.61	MOWED GI	759.37	-0.24
1071	244653	419301.7	759.73	MOWED GI	759.48	-0.25
1072	244654.8	419304.3	759.63	MOWED GI	759.4	-0.23
1073	244656.2	419306.3	759.6	MOWED GI	759.47	-0.13
1074	244657	419308.6	759.61	MOWED GI	759.47	-0.14
1075	244658.4	419311.2	759.6	MOWED GI	759.46	-0.14
1076	244935.2	419635.7	753.63	ASPH	753.37	-0.26
1077	244938.3	419635	753.46	ASPH	753.36	-0.1
1078	244940.6	419634.9	753.4	ASPH	753.22	-0.18
1079	244943.2	419634.4	753.36	ASPH	752.97	-0.39
1080	244945.7	419634.2	753.32	ASPH	753.06	-0.26
1081	244944.9	419631.3	753.32	ASPH	752.93	-0.39
1082	244941.7	419632.5	753.35	ASPH	753.09	-0.26
1083	244939.4	419633.3	753.4	ASPH	753.3	-0.1

1084	244936.8	419633.9	753.47 ASPH	753.34	-0.13
1085	244934.5	419634.8	753.56 ASPH	753.37	-0.19
1086	244933.8	419631.8	753.47 ASPH	753.25	-0.22
1087	244936.9	419631.2	753.41 ASPH	753.2	-0.21
1088	244939.3	419630.7	753.31 ASPH	753.17	-0.14
1089	244941.8	419630.1	753.27 ASPH	753.01	-0.26
1090	244944	419629.9	753.17 ASPH	752.9	-0.27
1091	244943.4	419626.7	753.21 ASPH	752.96	-0.25
1092	244939.9	419627.2	753.24 ASPH	753.13	-0.11
1093	244937.5	419628	753.31 ASPH	753.13	-0.18
1094	244934.9	419628.6	753.39 ASPH	753.08	-0.31
1095	244932.4	419629.2	753.47 ASPH	753.16	-0.31
1096	244931.3	419626.1	753.44 ASPH	753.13	-0.31
1097	244933.9	419625.5	753.42 ASPH	753.2	-0.22
1098	244936.5	419625	753.32 ASPH	753.22	-0.1
1099	244939	419624.7	753.27 ASPH	753.15	-0.12
1100	244942.2	419624.1	753.22 ASPH	752.91	-0.31
1101	244898.7	419696.4	754.88 CONC	754.53	-0.35
1102	244895.6	419696.3	754.91 CONC	754.55	-0.36
1103	244893.1	419696.3	754.83 CONC	754.62	-0.21
1104	244890.3	419696.6	754.93 CONC	754.79	-0.14
1105	244887.9	419696.7	755.04 CONC	754.7	-0.34
1106	244888.5	419699.8	755 CONC	754.87	-0.13
1107	244891.4	419699.5	755.03 CONC	754.93	-0.1
1108	244894	419699.3	755.06 CONC	754.73	-0.33
1109	244896.5	419699.4	755.01 CONC	754.64	-0.37
1110	244899.1	419699	755.06 CONC	754.57	-0.49
1111	244899.2	419702.1	755.25 CONC	754.77	-0.48
1112	244896	419701.8	755.25 CONC	754.8	-0.45
1113	244893.2	419702.1	755.31 CONC	754.91	-0.4
1114	244890.6	419702.1	755.32 CONC	754.89	-0.43
1115	244888.1	419702	755.32 CONC	754.86	-0.46
1116	244888.3	419705.6	755.41 CONC	755.02	-0.39
1117	244891.5	419705	755.32 CONC	755.01	-0.31
1118	244894.1	419704.9	755.37 CONC	754.97	-0.4
1119	244896.5	419704.9	755.34 CONC	754.93	-0.41
1120	244899.1	419704.6	755.3 CONC	754.93	-0.37
1121	244898.6	419707.9	755.54 CONC	755.11	-0.43
1122	244895.5	419707.8	755.48 CONC	755.09	-0.39
1123	244892.7	419707.9	755.47 CONC	755.09	-0.38
1124	244890.2	419708	755.46 CONC	755.1	-0.36
1125	244887.6	419708	755.47 CONC	755.15	-0.32
1126	245648.3	418400	734.35 TREE COVE	734.8	0.45
1127	245647.4	418395.9	734.54 TREE COVE	734.89	0.35
1128	245646.6	418393	734.59 TREE COVE	734.97	0.38
1129	245645.8	418390.1	734.76 TREE COVE	735.03	0.27
1130	245645.2	418387.5	734.55 TREE COVE	735.21	0.66

1131	245648.2	418387	734.33	TREE COVE	735.09	0.76
1132	245648.5	418390.1	734.37	TREE COVE	734.98	0.61
1133	245648.9	418392.8	734.12	TREE COVE	734.91	0.79
1134	245649.5	418395.7	734.23	TREE COVE	734.7	0.47
1136	245653.2	418397.7	734.89	TREE COVE	734.61	-0.28
1137	245652.1	418394.3	734.75	TREE COVE	734.63	-0.12
1138	245651	418390.7	734.6	TREE COVE	734.82	0.22
1140	245649.7	418383.8	734.69	TREE COVE	735.07	0.38
1141	245653.5	418383.1	734.75	TREE COVE	734.74	-0.01
1142	245654	418385.9	735.13	TREE COVE	734.71	-0.42
1143	245654.6	418390	734.53	TREE COVE	734.65	0.12
1144	245654.8	418393	734.64	TREE COVE	734.6	-0.04
1145	245655.1	418396.4	734.76	TREE COVE	734.47	-0.29
1146	245658.4	418395.3	734.61	TREE COVE	734.55	-0.06
1147	245657.8	418392.2	734.16	TREE COVE	734.63	0.47
1151	256211.1	328509.1	1155.5	TREE COVE	1155.47	-0.03
1152	256210.9	328512.4	1155.35	TREE COVE	1155.21	-0.14
1153	256210.9	328515	1155.1	TREE COVE	1154.94	-0.16
1154	256208.6	328521.4	1154.73	TREE COVE	1154.63	-0.1
1155	256208.5	328524.7	1154.42	TREE COVE	1154.32	-0.1
1156	256212.2	328525	1154.37	TREE COVE	1154.36	-0.01
1157	256213.2	328518.2	1154.85	TREE COVE	1154.77	-0.08
1158	256213.7	328515.1	1155.16	TREE COVE	1154.93	-0.23
1159	256214.2	328510.9	1155.32	TREE COVE	1155.24	-0.08
1160	256215.3	328509.1	1155.33	TREE COVE	1155.31	-0.02
1161	256217.9	328508	1155.5	TREE COVE	1155.36	-0.14
1162	256217.6	328511.5	1155.24	TREE COVE	1155.15	-0.09
1163	256217.5	328514.2	1155.12	TREE COVE	1154.99	-0.13
1164	256217.7	328517	1154.97	TREE COVE	1154.8	-0.17
1165	256217.5	328519.7	1154.74	TREE COVE	1154.64	-0.1
1166	256221.1	328521.4	1154.64	TREE COVE	1154.51	-0.13
1167	256221.3	328518.1	1154.81	TREE COVE	1154.87	0.06
1168	256221.9	328514.6	1154.95	TREE COVE	1154.94	-0.01
1169	256222.1	328510.9	1155.27	TREE COVE	1155.12	-0.15
1170	256221.9	328507.8	1155.52	TREE COVE	1155.41	-0.11
1171	256225.5	328508.2	1155.57	TREE COVE	1155.31	-0.26
1172	256225.1	328511.6	1155.28	TREE COVE	1155.03	-0.25
1173	256225.2	328514.8	1155.04	TREE COVE	1154.87	-0.17
1174	256225.5	328517.8	1154.83	TREE COVE	1154.74	-0.09
1175	256225.6	328520.8	1154.54	TREE COVE	1154.41	-0.13
1176	256204.4	328241	1150.62	ASPH	1150.62	0
1177	256207.5	328241.1	1150.6	ASPH	1150.61	0.01
1178	256210.1	328241.1	1150.56	ASPH	1150.52	-0.04
1179	256212.6	328241	1150.53	ASPH	1150.53	0
1180	256215.8	328240.9	1150.46	ASPH	1150.52	0.06
1181	256215.9	328244.3	1150.53	ASPH	1150.62	0.09
1182	256212.5	328244.2	1150.59	ASPH	1150.51	-0.08

1183	256209.7	328244.1	1150.67 ASPH	1150.6	-0.07
1184	256207.2	328244.2	1150.77 ASPH	1150.75	-0.02
1185	256204.2	328244	1150.77 ASPH	1150.77	0
1186	256204.2	328247.7	1150.8 ASPH	1150.76	-0.04
1187	256207.5	328247.6	1150.84 ASPH	1150.71	-0.13
1188	256210.4	328247.8	1150.8 ASPH	1150.63	-0.17
1189	256213.2	328247.7	1150.74 ASPH	1150.57	-0.17
1191	256214.4	328251.5	1150.74 ASPH	1150.46	-0.28
1192	256211	328251	1150.79 ASPH	1150.53	-0.26
1193	256208.4	328250.8	1150.88 ASPH	1150.61	-0.27
1194	256205.8	328250.9	1150.88 ASPH	1150.67	-0.21
1195	256203.4	328250.7	1150.92 ASPH	1150.75	-0.17
1196	256204	328254.4	1150.92 ASPH	1150.71	-0.21
1197	256207.6	328254.4	1150.82 ASPH	1150.54	-0.28
1198	256210.7	328253.7	1150.89 ASPH	1150.48	-0.41
1199	256213.5	328253.7	1150.88 ASPH	1150.45	-0.43
1200	256216.4	328253.7	1150.83 ASPH	1150.54	-0.29
1201	256063.2	328520.1	1155.75 BRUSH/LO\	1156.2	0.45
1202	256066.6	328518.9	1155.8 BRUSH/LO\	1156.17	0.37
1203	256069.3	328518.9	1155.67 BRUSH/LO\	1156.13	0.46
1204	256072	328517.8	1155.67 BRUSH/LO\	1155.84	0.17
1205	256060.3	328520.8	1155.61 BRUSH/LO\	1156.44	0.83
1206	256060.3	328523.5	1155.71 BRUSH/LO\	1156.37	0.66
1207	256063	328523.4	1155.61 BRUSH/LO\	1156.38	0.77
1208	256066.2	328523.2	1155.6 BRUSH/LO\	1156.31	0.71
1209	256068.5	328522.4	1155.6 BRUSH/LO\	1156.22	0.62
1210	256072.1	328521.4	1155.87 BRUSH/LO\	1156.09	0.22
1211	256072.9	328524.5	1155.66 BRUSH/LO\	1156.23	0.57
1212	256070.3	328525.8	1155.72 BRUSH/LO\	1156.06	0.34
1213	256066.3	328525.3	1155.51 BRUSH/LO\	1156.01	0.5
1214	256062.8	328526	1155.67 BRUSH/LO\	1156.11	0.44
1215	256059.5	328526.7	1155.6 BRUSH/LO\	1156.13	0.53
1216	256060.5	328530.3	1155.58 BRUSH/LO\	1156.28	0.7
1217	256063.9	328530.2	1155.49 BRUSH/LO\	1156.33	0.84
1218	256065.9	328529.4	1155.7 BRUSH/LO\	1155.99	0.29
1219	256068.9	328528.9	1155.58 BRUSH/LO\	1156	0.42
1220	256071.5	328528	1155.75 BRUSH/LO\	1156.09	0.34
1221	256072.9	328530.9	1155.64 BRUSH/LO\	1156.05	0.41
1222	256069.8	328532.6	1155.77 BRUSH/LO\	1156.01	0.24
1223	256067.3	328533.6	1155.55 BRUSH/LO\	1156.08	0.53
1224	256063.5	328533.7	1155.46 BRUSH/LO\	1156.5	1.04
1225	256059.6	328533	1155.56 BRUSH/LO\	1156.18	0.62
1226	256042.1	328515.2	1155.33 TALL GRAS	1155.32	-0.01
1227	256045.4	328515.2	1155.55 TALL GRAS	1155.44	-0.11
1228	256048.5	328514.9	1155.59 TALL GRAS	1155.62	0.03
1229	256051.8	328515.5	1155.7 TALL GRAS	1155.75	0.05
1230	256055.1	328515.7	1155.78 TALL GRAS	1155.69	-0.09

1231	256054.9	328512.1	1155.75	TALL GRAS	1155.77	0.02
1232	256051.3	328512.6	1155.68	TALL GRAS	1155.76	0.08
1233	256047.9	328512.6	1155.59	TALL GRAS	1155.63	0.04
1234	256044.6	328512.4	1155.51	TALL GRAS	1155.36	-0.15
1235	256041.4	328512.6	1155.4	TALL GRAS	1155.36	-0.04
1236	256041	328508.9	1155.26	TALL GRAS	1155.24	-0.02
1237	256045	328509.1	1155.29	TALL GRAS	1155.3	0.01
1238	256048.7	328509.1	1155.57	TALL GRAS	1155.49	-0.08
1239	256052.3	328509.1	1155.63	TALL GRAS	1155.69	0.06
1240	256055.8	328509	1155.82	TALL GRAS	1155.81	-0.01
1241	256055.1	328505.7	1155.58	TALL GRAS	1155.87	0.29
1242	256051.2	328506	1155.25	TALL GRAS	1155.52	0.27
1243	256047.3	328506.1	1155.06	TALL GRAS	1155.25	0.19
1244	256043.7	328505.2	1154.82	TALL GRAS	1155.06	0.24
1245	256040.2	328504.6	1154.51	TALL GRAS	1154.92	0.41
1246	256042.7	328519.3	1155.29	TALL GRAS	1155.44	0.15
1247	256046.5	328518.4	1155.31	TALL GRAS	1155.6	0.29
1248	256049.6	328518.7	1155.37	TALL GRAS	1155.75	0.38
1249	256053	328518.4	1155.56	TALL GRAS	1155.81	0.25
1250	256056.5	328517.5	1155.66	TALL GRAS	1156.01	0.35
1251	255998.5	328492.9	1153.04	MOWED GRAS	1153.19	0.15
1252	256000.8	328490.3	1153.03	MOWED GRAS	1153.26	0.23
1253	256002.9	328487.7	1153.06	MOWED GRAS	1153.02	-0.04
1254	256005.1	328486.2	1153.12	MOWED GRAS	1153.03	-0.09
1255	256007	328483.8	1153.21	MOWED GRAS	1153.04	-0.17
1256	256009.4	328486.6	1153.26	MOWED GRAS	1153.16	-0.1
1257	256006.5	328488.9	1153.12	MOWED GRAS	1153.04	-0.08
1258	256004.9	328490.7	1153.13	MOWED GRAS	1153.15	0.02
1259	256002.8	328493.3	1153.11	MOWED GRAS	1153.32	0.21
1260	256001.2	328495.3	1153.25	MOWED GRAS	1153.22	-0.03
1261	256003.7	328497.6	1153.35	MOWED GRAS	1153.33	-0.02
1262	256005.9	328495.1	1153.29	MOWED GRAS	1153.31	0.02
1263	256007.7	328492.7	1153.25	MOWED GRAS	1153.18	-0.07
1264	256009.6	328491	1153.29	MOWED GRAS	1153.24	-0.05
1265	256011.6	328488.8	1153.35	MOWED GRAS	1153.27	-0.08
1266	256013.7	328491.2	1153.29	MOWED GRAS	1153.34	0.05
1267	256010.9	328493.6	1153.17	MOWED GRAS	1153.23	0.06
1268	256008.3	328495.8	1153.18	MOWED GRAS	1153.26	0.08
1269	256005.8	328497.7	1153.23	MOWED GRAS	1153.32	0.09
1270	256003.7	328500.1	1153.28	MOWED GRAS	1153.2	-0.08
1271	256000.6	328502.8	1153.31	MOWED GRAS	1153.25	-0.06
1272	255997.9	328500.9	1153.26	MOWED GRAS	1153.13	-0.13
1273	255996.2	328499	1153.19	MOWED GRAS	1153.04	-0.15
1274	255994.2	328496.9	1153.08	MOWED GRAS	1152.99	-0.09
1275	255998.7	328499.3	1153.34	MOWED GRAS	1153.15	-0.19
1276	256170.5	328241.6	1151.09	GRAV	1151.15	0.06
1277	256174	328241.6	1151.04	GRAV	1151.09	0.05

1278	256176.8	328241.7	1150.98	GRAV	1150.98	0
1279	256180	328241.7	1150.83	GRAV	1150.97	0.14
1280	256182.4	328241.6	1150.86	GRAV	1151.04	0.18
1281	256182.1	328245.2	1151.01	GRAV	1151.1	0.09
1282	256178.2	328244.8	1151.07	GRAV	1151.04	-0.03
1283	256175.1	328244.4	1151.06	GRAV	1151.12	0.06
1284	256172.2	328244.2	1151.13	GRAV	1151.17	0.04
1285	256169.1	328244.2	1151.12	GRAV	1151.18	0.06
1286	256168.3	328247.3	1151.17	GRAV	1151.18	0.01
1287	256171.7	328247.4	1151.11	GRAV	1151.18	0.07
1288	256175.3	328247.5	1151.09	GRAV	1151.14	0.05
1289	256178.1	328247.7	1151.04	GRAV	1151.13	0.09
1290	256181.1	328247.7	1150.95	GRAV	1151.05	0.1
1291	256180.5	328251.7	1150.97	GRAV	1151	0.03
1292	256177	328251.2	1150.94	GRAV	1151.06	0.12
1293	256174.3	328250.9	1150.92	GRAV	1150.96	0.04
1294	256171	328250.9	1150.94	GRAV	1151.05	0.11
1295	256168.3	328250.6	1150.99	GRAV	1151.13	0.14
1296	256167.8	328253.9	1150.91	GRAV	1151.04	0.13
1297	256171.4	328253.8	1150.96	GRAV	1150.93	-0.03
1298	256174.7	328253.9	1150.93	GRAV	1150.87	-0.06
1299	256177.6	328253.8	1150.97	GRAV	1150.94	-0.03
1300	256180.6	328254.2	1150.95	GRAV	1150.92	-0.03
1301	257596.6	329673.8	1146.77	CK	1146.79	0.02
0	111973.1	320877.2	647.56	CK	647.57	0.01
1325	111973.1	320877.2	647.62	CK	647.58	-0.04
1326	113912.2	321400.1	649.92	MOWED GI	649.65	-0.27
1327	113912.5	321403.2	649.78	MOWED GI	649.51	-0.27
1328	113912.9	321406.1	649.85	MOWED GI	649.35	-0.5
1329	113913.2	321408.7	649.67	MOWED GI	649.4	-0.27
1330	113913.6	321411.3	649.66	MOWED GI	649.37	-0.29
1331	113909.8	321411.9	649.6	MOWED GI	649.27	-0.33
1332	113909.2	321408.6	649.74	MOWED GI	649.35	-0.39
1333	113908.9	321405.7	649.53	MOWED GI	649.38	-0.15
1334	113908.6	321402.9	649.61	MOWED GI	649.51	-0.1
1335	113908.2	321399.8	649.73	MOWED GI	649.58	-0.15
1336	113905	321400.7	649.81	MOWED GI	649.45	-0.36
1337	113905.8	321404.5	649.76	MOWED GI	649.43	-0.33
1338	113906.3	321407.1	649.71	MOWED GI	649.39	-0.32
1339	113906.8	321409.9	649.79	MOWED GI	649.3	-0.49
1340	113907.4	321412.6	649.78	MOWED GI	649.31	-0.47
1341	113903.7	321413.5	649.65	MOWED GI	649.32	-0.33
1342	113903.4	321410.2	649.8	MOWED GI	649.36	-0.44
1343	113903.1	321406.9	649.7	MOWED GI	649.35	-0.35
1344	113902.7	321404.4	649.74	MOWED GI	649.33	-0.41
1345	113902	321401.4	649.63	MOWED GI	649.27	-0.36
1346	113898.9	321402.7	649.59	MOWED GI	649.38	-0.21

1347	113899.8	321406.1	649.54 MOWED GRAS	649.31	-0.23
1348	113900.2	321408.8	649.59 MOWED GRAS	649.31	-0.28
1349	113900.5	321411.6	649.54 MOWED GRAS	649.24	-0.3
1350	113900.7	321414.5	649.6 MOWED GRAS	649.25	-0.35
1351	113867.9	321384.8	649.29 GRAV	649.22	-0.07
1352	113868.5	321388.1	649.35 GRAV	649.23	-0.12
1353	113868.4	321391	649.38 GRAV	649.25	-0.13
1354	113868.9	321393.7	649.41 GRAV	649.22	-0.19
1355	113869.5	321396.6	649.46 GRAV	649.17	-0.29
1356	113866	321396.8	649.52 GRAV	649.22	-0.3
1357	113865.9	321393.5	649.51 GRAV	649.16	-0.35
1358	113866	321390.9	649.1 GRAV	649.2	0.1
1359	113865.5	321387.6	649.08 GRAV	649.28	0.2
1360	113865.3	321385.1	649.14 GRAV	649.26	0.12
1361	113861.4	321385.8	649.01 GRAV	649.24	0.23
1362	113862	321389.6	649.1 GRAV	649.24	0.14
1363	113861.9	321392.4	649.12 GRAV	649.23	0.11
1364	113862	321395.1	649.12 GRAV	649.22	0.1
1365	113862	321398	649.18 GRAV	649.25	0.07
1366	113858.3	321397.5	649.25 GRAV	649.21	-0.04
1367	113858.6	321394.3	649.14 GRAV	649.22	0.08
1368	113858.4	321391.6	649.07 GRAV	649.34	0.27
1369	113858.3	321389.1	649 GRAV	649.35	0.35
1370	113857.9	321386.3	649.05 GRAV	649.32	0.27
1371	113855	321387	649.07 GRAV	649.27	0.2
1372	113855	321390.8	649.12 GRAV	649.4	0.28
1373	113855.6	321394.1	649.2 GRAV	649.33	0.13
1374	113856.1	321396.6	649.31 GRAV	649.21	-0.1
1375	113856.2	321399	649.29 GRAV	649.31	0.02
1376	114006.3	321164.4	654.61 TALL GRAS	655.27	0.66
1377	114005.6	321160.8	654.57 TALL GRAS	655.24	0.67
1378	114005.6	321158.3	654.7 TALL GRAS	655.34	0.64
1379	114006.2	321155.1	654.86 TALL GRAS	655.41	0.55
1380	114005.3	321152.3	654.8 TALL GRAS	655.4	0.6
1381	114009.1	321152	654.84 TALL GRAS	655.43	0.59
1382	114008.9	321155.8	654.79 TALL GRAS	655.48	0.69
1383	114009.3	321159	654.92 TALL GRAS	655.36	0.44
1384	114009.9	321162.2	654.93 TALL GRAS	655.29	0.36
1385	114010.4	321164.9	654.9 TALL GRAS	655.36	0.46
1386	114013.6	321163.9	654.9 TALL GRAS	655.34	0.44
1387	114012.5	321160.8	654.81 TALL GRAS	655.31	0.5
1388	114011.9	321157.8	654.83 TALL GRAS	655.31	0.48
1389	114011.4	321154.7	654.9 TALL GRAS	655.44	0.54
1390	114011.2	321151.5	654.89 TALL GRAS	655.43	0.54
1391	114014.3	321150.3	654.92 TALL GRAS	655.39	0.47
1392	114014.7	321154	654.91 TALL GRAS	655.46	0.55
1393	114015.1	321157	655.01 TALL GRAS	655.55	0.54

1394	114015.7	321159.8	654.91 TALL GRAS	655.52	0.61
1395	114016.7	321163	654.83 TALL GRAS	655.44	0.61
1396	114020	321162.2	654.97 TALL GRAS	655.53	0.56
1397	114018.7	321158.6	655.01 TALL GRAS	655.53	0.52
1398	114018	321155.5	654.92 TALL GRAS	655.58	0.66
1399	114017.2	321152.5	654.91 TALL GRAS	655.5	0.59
1400	114016.6	321149.7	654.93 TALL GRAS	655.42	0.49
1401	114173.8	321255.3	653.94 BRUSH/LOI	654.11	0.17
1402	114174.6	321259.5	653.82 BRUSH/LOI	653.86	0.04
1403	114175.6	321262.6	653.68 BRUSH/LOI	653.68	0
1404	114176.8	321265.4	653.71 BRUSH/LOI	653.66	-0.05
1405	114177.6	321268.5	653.82 BRUSH/LOI	653.62	-0.2
1406	114181	321267.1	653.5 BRUSH/LOI	653.54	0.04
1407	114179.4	321263.5	653.47 BRUSH/LOI	653.59	0.12
1408	114178.7	321260.3	653.4 BRUSH/LOI	653.85	0.45
1409	114178.7	321257.8	653.62 BRUSH/LOI	653.87	0.25
1410	114177.9	321253.9	653.83 BRUSH/LOI	653.95	0.12
1411	114181.4	321251.6	654.17 BRUSH/LOI	654.12	-0.05
1412	114182.2	321257.3	653.9 BRUSH/LOI	653.77	-0.13
1413	114183.1	321261.4	653.63 BRUSH/LOI	653.55	-0.08
1414	114184.2	321264.8	653.66 BRUSH/LOI	653.43	-0.23
1415	114184.9	321268.1	653.38 BRUSH/LOI	653.43	0.05
1416	114188.1	321267.8	653.46 BRUSH/LOI	653.5	0.04
1417	114186.7	321263.6	653.31 BRUSH/LOI	653.5	0.19
1418	114186.2	321260.3	653.27 BRUSH/LOI	653.6	0.33
1419	114185.9	321255.8	653.49 BRUSH/LOI	653.77	0.28
1420	114185	321252.3	653.9 BRUSH/LOI	653.9	0
1421	114189.1	321253.1	653.91 BRUSH/LOI	654.06	0.15
1422	114188.2	321256.5	653.56 BRUSH/LOI	653.94	0.38
1423	114187.4	321259.8	653.8 BRUSH/LOI	653.66	-0.14
1424	114189.1	321262.4	653.57 BRUSH/LOI	653.54	-0.03
1425	114189.6	321266.4	652.97 BRUSH/LOI	653.51	0.54
1426	113703.5	321381.5	648.89 ASPH	648.86	-0.03
1427	113703.8	321384.4	648.95 ASPH	648.76	-0.19
1428	113704.2	321387.3	648.97 ASPH	648.87	-0.1
1429	113704.7	321390	649.01 ASPH	648.9	-0.11
1430	113705.1	321392.7	649.02 ASPH	648.81	-0.21
1431	113701.4	321393.3	649.01 ASPH	648.73	-0.28
1432	113701.2	321389.8	648.96 ASPH	648.73	-0.23
1433	113700.9	321386.9	648.94 ASPH	648.77	-0.17
1434	113700.5	321384.4	649 ASPH	648.83	-0.17
1435	113700.3	321381.6	648.98 ASPH	648.82	-0.16
1436	113696.4	321382.2	648.99 ASPH	648.82	-0.17
1437	113697.2	321386	649.02 ASPH	648.93	-0.09
1438	113697.6	321389	649.05 ASPH	648.83	-0.22
1439	113697.9	321392	649.1 ASPH	649.09	-0.01
1440	113698.1	321394.8	649.08 ASPH	648.99	-0.09

1441	113694.6	321395.7	649.09	ASPH	648.78	-0.31
1442	113694.5	321392.2	649.05	ASPH	648.75	-0.3
1443	113694	321389.4	649.03	ASPH	648.7	-0.33
1444	113694.2	321386.5	649.03	ASPH	648.89	-0.14
1445	113693.6	321383.7	649	ASPH	649.11	0.11
1446	113690.1	321384.2	649.04	ASPH	649.27	0.23
1447	113691	321388.3	648.99	ASPH	648.59	-0.4
1448	113691.7	321391.7	649.03	ASPH	648.7	-0.33
1449	113692	321394.6	649	ASPH	648.78	-0.22
1450	113692.6	321397	648.99	ASPH	648.84	-0.15
1451	123569	318998.5	640.16	CONC	640.17	0.01
1452	123565.7	318998.4	640.1	CONC	640.27	0.17
1453	123562.9	318998.5	640.05	CONC	640.15	0.1
1454	123560.7	318998.3	640.06	CONC	640	-0.06
1455	123558	318998.2	640.04	CONC	639.8	-0.24
1456	123558.6	319001.6	640.13	CONC	639.92	-0.21
1457	123562.1	319001	640.06	CONC	640.09	0.03
1458	123564.7	319001.1	640.07	CONC	640.23	0.16
1459	123567.4	319000.9	640.14	CONC	640.18	0.04
1460	123570.1	319000.8	640.17	CONC	640.22	0.05
1461	123570	319004.2	640.14	CONC	640.3	0.16
1462	123565.9	319003.7	640.2	CONC	640.07	-0.13
1463	123562.5	319003.8	640.02	CONC	640.01	-0.01
1464	123559.7	319004	640.06	CONC	639.97	-0.09
1465	123557.2	319004.3	640.04	CONC	639.97	-0.07
1466	123557.7	319006.9	639.99	CONC	640.07	0.08
1467	123560.9	319006.5	640.08	CONC	639.99	-0.09
1468	123563.6	319006.5	640.02	CONC	640.04	0.02
1469	123566.2	319006.4	640.09	CONC	640.1	0.01
1470	123568.7	319006.4	640.18	CONC	640.24	0.06
1471	123568.5	319010	640.17	CONC	640.22	0.05
1472	123565.5	319009.6	640.17	CONC	640.09	-0.08
1473	123561.7	319010.1	640.03	CONC	640.05	0.02
1474	123558.4	319010.1	639.96	CONC	640.09	0.13
1475	123555.2	319009.9	639.85	CONC	640.08	0.23
1476	118289.5	323462.9	664.5	TREE COVE	665.15	0.65
1477	118289.6	323466.1	664.76	TREE COVE	665.22	0.46
1478	118289.6	323469.4	665.13	TREE COVE	665.55	0.42
1479	118289.1	323472.9	665.43	TREE COVE	665.77	0.34
1480	118289.5	323476	665.91	TREE COVE	666.03	0.12
1481	118293.1	323476.3	665.61	TREE COVE	666.14	0.53
1482	118291.4	323473.9	665.45	TREE COVE	666	0.55
1483	118290.3	323471.2	665.36	TREE COVE	665.65	0.29
1484	118291.1	323467.5	665.02	TREE COVE	665.3	0.28
1485	118291.1	323463.4	664.62	TREE COVE	664.96	0.34
1486	118294.8	323462.2	664.62	TREE COVE	664.8	0.18
1487	118295.8	323462.2	664.53	TREE COVE	664.9	0.37

1488	118296	323470	665.06	TREE COVE	665.51	0.45
1489	118295.5	323473.3	665.5	TREE COVE	665.85	0.35
1490	118295.2	323476.1	665.57	TREE COVE	665.85	0.28
1491	118299.9	323475.6	665.47	TREE COVE	665.83	0.36
1492	118299.7	323471.7	665.26	TREE COVE	665.67	0.41
1493	118299.6	323468.3	665.05	TREE COVE	665.28	0.23
1494	118299.3	323463.7	664.66	TREE COVE	665.13	0.47
1495	118299.3	323460.3	664.5	TREE COVE	664.86	0.36
1496	118302.6	323460.4	664.64	TREE COVE	664.91	0.27
1497	118302.5	323463.6	664.75	TREE COVE	665.1	0.35
1498	118302.9	323467.4	665.04	TREE COVE	665.21	0.17
1499	118303.2	323471.2	665.28	TREE COVE	665.63	0.35
1500	118303.3	323475.8	665.5	TREE COVE	665.65	0.15
1526	163081.4	424773.4	1089.46	ASPH	1089.59	0.13
1527	163078.1	424773.2	1089.43	ASPH	1089.61	0.18
1528	163075.6	424773.1	1089.43	ASPH	1089.76	0.33
1529	163073.1	424772.8	1089.4	ASPH	1089.81	0.41
1530	163070.4	424772.4	1089.32	ASPH	1089.76	0.44
1531	163070.7	424775.6	1089.28	ASPH	1089.84	0.56
1532	163074	424775.9	1089.43	ASPH	1090.11	0.68
1533	163076.6	424776.5	1089.44	ASPH	1089.92	0.48
1534	163079.2	424776.6	1089.42	ASPH	1089.6	0.18
1535	163081.6	424776.8	1089.37	ASPH	1089.88	0.51
1536	163080.4	424780.4	1089.33	ASPH	1089.92	0.59
1537	163077.1	424779.6	1089.38	ASPH	1089.75	0.37
1538	163074.4	424779.3	1089.32	ASPH	1089.97	0.65
1539	163071.7	424779.1	1089.25	ASPH	1089.82	0.57
1540	163069.3	424778.9	1089.19	ASPH	1089.83	0.64
1541	163069.7	424782.1	1089.18	ASPH	1089.84	0.66
1542	163073	424782.1	1089.2	ASPH	1089.8	0.6
1543	163075.7	424782.2	1089.27	ASPH	1089.74	0.47
1544	163078.1	424782.8	1089.28	ASPH	1089.8	0.52
1545	163080.7	424783.1	1089.32	ASPH	1090.01	0.69
1546	163079.7	424785.9	1089.34	ASPH	1089.81	0.47
1547	163076.6	424785	1089.31	ASPH	1089.86	0.55
1548	163073.8	424784.6	1089.25	ASPH	1089.77	0.52
1549	163071.4	424784.4	1089.25	ASPH	1089.72	0.47
1550	163069	424784	1089.22	ASPH	1089.8	0.58
1551	163115.1	424915.3	1087.72	GRAV	1087.72	0
1552	163114.7	424917.9	1087.63	GRAV	1087.7	0.07
1553	163114.4	424920.2	1087.54	GRAV	1087.68	0.14
1554	163113.6	424922.4	1087.48	GRAV	1087.65	0.17
1555	163113.3	424925	1087.37	GRAV	1087.49	0.12
1556	163116.6	424925.3	1087.41	GRAV	1087.55	0.14
1557	163116.9	424921.5	1087.44	GRAV	1087.74	0.3
1558	163117.8	424919.1	1087.57	GRAV	1087.78	0.21
1559	163118.2	424916.5	1087.69	GRAV	1087.82	0.13

1560	163118.8	424913.7	1087.85 GRAV	1088.06	0.21
1561	163121.8	424914.7	1087.85 GRAV	1088.04	0.19
1562	163120.7	424917.6	1087.75 GRAV	1087.88	0.13
1563	163120.3	424920.2	1087.65 GRAV	1087.8	0.15
1564	163119.5	424922.7	1087.58 GRAV	1087.71	0.13
1565	163119.4	424925.2	1087.47 GRAV	1087.62	0.15
1566	163122.4	424925.7	1087.6 GRAV	1087.6	0
1567	163122.6	424921.9	1087.69 GRAV	1087.84	0.15
1568	163123.2	424919.3	1087.81 GRAV	1087.91	0.1
1569	163123.4	424916.5	1087.84 GRAV	1087.92	0.08
1570	163124	424914.1	1087.91 GRAV	1088.12	0.21
1571	163127.5	424914.4	1088.04 GRAV	1088.11	0.07
1572	163127.5	424917.6	1087.93 GRAV	1087.89	-0.04
1573	163127.2	424920.3	1087.87 GRAV	1087.92	0.05
1574	163126.2	424922.5	1087.78 GRAV	1087.93	0.15
1575	163126.1	424925	1087.73 GRAV	1087.67	-0.06
1576	163000.5	424914.8	1072.35 MOWED GI	1072.5	0.15
1577	163000.2	424918.2	1072.46 MOWED GI	1072.61	0.15
1578	163000.3	424921	1072.48 MOWED GI	1072.69	0.21
1579	163000.3	424923.9	1072.48 MOWED GI	1072.64	0.16
1580	163000.1	424926.6	1072.31 MOWED GI	1072.57	0.26
1581	162997	424926.2	1072.09 MOWED GI	1072.22	0.13
1582	162997	424922.8	1072.05 MOWED GI	1072.2	0.15
1583	162996.6	424920.2	1072.03 MOWED GI	1072.21	0.18
1584	162996.7	424917.1	1072.04 MOWED GI	1072.18	0.14
1585	162996.7	424914.2	1072.08 MOWED GI	1072.12	0.04
1586	162993.3	424914.6	1071.82 MOWED GI	1071.89	0.07
1587	162993.4	424917.8	1071.84 MOWED GI	1071.94	0.1
1588	162993.5	424920.6	1071.82 MOWED GI	1071.84	0.02
1589	162993.7	424923.3	1071.74 MOWED GI	1071.81	0.07
1590	162993.4	424926.1	1071.77 MOWED GI	1071.8	0.03
1591	162990.3	424925.7	1071.49 MOWED GI	1071.55	0.06
1592	162990.1	424922.5	1071.42 MOWED GI	1071.46	0.04
1593	162990.1	424919.4	1071.42 MOWED GI	1071.51	0.09
1594	162989.8	424916.5	1071.5 MOWED GI	1071.48	-0.02
1595	162989.9	424913.8	1071.55 MOWED GI	1071.49	-0.06
1596	162986.6	424914.4	1071.14 MOWED GI	1071.13	-0.01
1597	162986.5	424918.1	1071.06 MOWED GI	1071.05	-0.01
1598	162986.8	424920.9	1071.08 MOWED GI	1071.07	-0.01
1599	162986.6	424923.6	1071.06 MOWED GI	1071.13	0.07
1600	162986.5	424926.4	1071.03 MOWED GI	1071.17	0.14
1601	162974.3	424912.8	1070.09 BRUSH/LO\	1070.48	0.39
1602	162974.4	424916.3	1070.12 BRUSH/LO\	1070.75	0.63
1603	162974.2	424920.4	1069.99 BRUSH/LO\	1070.73	0.74
1604	162974.5	424924.5	1069.93 BRUSH/LO\	1070.71	0.78
1605	162973.2	424929.5	1070 BRUSH/LO\	1070.51	0.51
1606	162969.4	424928.1	1069.6 BRUSH/LO\	1069.94	0.34

1607	162970.2	424924	1069.68	BRUSH/LO\	1070.13	0.45
1608	162971.1	424919.9	1069.67	BRUSH/LO\	1070.41	0.74
1609	162972	424914.7	1069.5	BRUSH/LO\	1070.38	0.88
1610	162972.9	424910.4	1069.67	BRUSH/LO\	1070.31	0.64
1611	162968.8	424910.2	1069.54	BRUSH/LO\	1070.17	0.63
1612	162968.1	424914.5	1069.41	BRUSH/LO\	1069.91	0.5
1613	162966.7	424918.9	1069.25	BRUSH/LO\	1069.97	0.72
1614	162967.8	424924.1	1069.32	BRUSH/LO\	1069.91	0.59
1615	162966.4	424928.1	1069.29	BRUSH/LO\	1069.68	0.39
1616	162959.7	424926.5	1068.79	BRUSH/LO\	1069.3	0.51
1617	162960.5	424922.2	1069	BRUSH/LO\	1069.25	0.25
1618	162962	424918.5	1068.82	BRUSH/LO\	1069.49	0.67
1619	162963.6	424914.5	1069.02	BRUSH/LO\	1069.54	0.52
1620	162966.6	424910.4	1069.34	BRUSH/LO\	1069.96	0.62
1621	162961.7	424909.7	1069.06	BRUSH/LO\	1069.49	0.43
1622	162959.5	424914.2	1068.71	BRUSH/LO\	1069.21	0.5
1623	162958.8	424918.6	1068.66	BRUSH/LO\	1069.24	0.58
1626	162911.4	425520	1076.84	TALL GRAS	1077.44	0.6
1627	162913.7	425522.8	1076.76	TALL GRAS	1077.22	0.46
1628	162916	425524.6	1076.79	TALL GRAS	1077.28	0.49
1629	162917.9	425526.9	1076.73	TALL GRAS	1077.3	0.57
1630	162920.2	425528.9	1076.76	TALL GRAS	1077.34	0.58
1631	162922	425525	1077.03	TALL GRAS	1077.6	0.57
1632	162919.4	425522.9	1076.97	TALL GRAS	1077.46	0.49
1633	162917.4	425520.4	1076.92	TALL GRAS	1077.6	0.68
1634	162914.9	425519.1	1076.86	TALL GRAS	1077.56	0.7
1635	162912	425516.9	1076.96	TALL GRAS	1077.52	0.56
1636	162914.8	425513.9	1077.19	TALL GRAS	1077.7	0.51
1637	162917.3	425516.7	1077.24	TALL GRAS	1077.78	0.54
1638	162919.5	425518.8	1077.25	TALL GRAS	1077.84	0.59
1639	162922.5	425521.8	1077.14	TALL GRAS	1077.91	0.77
1640	162924.3	425524.2	1077.18	TALL GRAS	1077.87	0.69
1641	162926.4	425521.6	1077.5	TALL GRAS	1078.33	0.83
1642	162923.3	425519.1	1077.37	TALL GRAS	1078.07	0.7
1643	162921.3	425517.2	1077.33	TALL GRAS	1077.95	0.62
1644	162919.6	425514.9	1077.33	TALL GRAS	1078.09	0.76
1645	162916.8	425512.7	1077.39	TALL GRAS	1077.74	0.35
1646	162919.5	425509.4	1077.72	TALL GRAS	1078.06	0.34
1647	162922	425512.5	1077.68	TALL GRAS	1078.14	0.46
1648	162924.1	425514.6	1077.69	TALL GRAS	1078.1	0.41
1649	162925.9	425517	1077.53	TALL GRAS	1078.29	0.76
1650	162928.4	425519.8	1077.61	TALL GRAS	1078.25	0.64
1651	162551.9	428432.2	1045.23	TREE COVE	1045.22	-0.01
1652	162555.3	428432.9	1045.73	TREE COVE	1045.34	-0.39
1653	162558.8	428433.4	1045.99	TREE COVE	1046.05	0.06
1654	162562.1	428433.8	1046.4	TREE COVE	1046.15	-0.25
1655	162564.9	428433.7	1046.88	TREE COVE	1046.81	-0.07

1656	162566	428430.3	1047.25	TREE COVE	1047.19	-0.06
1657	162562.7	428429.6	1046.8	TREE COVE	1046.45	-0.35
1658	162559.6	428428.8	1046.47	TREE COVE	1046.19	-0.28
1659	162555.6	428428	1045.75	TREE COVE	1045.62	-0.13
1660	162551.8	428427.1	1045.55	TREE COVE	1045.24	-0.31
1661	162552.4	428424	1045.76	TREE COVE	1045.44	-0.32
1662	162555.9	428425.4	1046.12	TREE COVE	1045.9	-0.22
1663	162559.8	428426.3	1046.57	TREE COVE	1046.39	-0.18
1664	162562.5	428426.9	1047	TREE COVE	1046.68	-0.32
1665	162565.1	428426.5	1047.42	TREE COVE	1046.97	-0.45
1666	162566.4	428423.8	1047.77	TREE COVE	1047.34	-0.43
1667	162563	428423.2	1047.29	TREE COVE	1047.18	-0.11
1668	162559	428422.1	1046.65	TREE COVE	1046.58	-0.07
1669	162556.2	428421.2	1046.42	TREE COVE	1046.14	-0.28
1670	162553.6	428420.2	1046	TREE COVE	1045.98	-0.02
1671	162554.9	428416.9	1046.3	TREE COVE	1046.35	0.05
1672	162558	428417.9	1046.76	TREE COVE	1046.55	-0.21
1673	162560	428418.7	1047.09	TREE COVE	1046.99	-0.1
1674	162563.7	428420.3	1047.6	TREE COVE	1047.37	-0.23
1675	162567	428421.3	1047.89	TREE COVE	1047.54	-0.35
62101	247468.5	416631.2	725.72	MOWED GI	725.67	-0.05
62102	247464.8	416633.2	726.03	MOWED GI	725.53	-0.5
62103	247460.6	416635	725.8	MOWED GI	725.51	-0.29
62104	247456.8	416636.1	725.89	MOWED GI	725.43	-0.46
62105	247453.6	416636.9	725.7	MOWED GI	725.4	-0.3
62106	247454.6	416639.4	725.82	MOWED GI	725.43	-0.39
62107	247457.5	416638.4	725.78	MOWED GI	725.5	-0.28
62108	247460.4	416637.3	725.8	MOWED GI	725.63	-0.17
62109	247464.4	416636.7	725.87	MOWED GI	725.47	-0.4
62110	247467	416635.8	725.8	MOWED GI	725.56	-0.24
62111	247467.8	416638.4	725.82	MOWED GI	725.49	-0.33
62112	247464.3	416638.9	725.85	MOWED GI	725.49	-0.36
62113	247460.8	416639.5	725.76	MOWED GI	725.6	-0.16
62114	247457.6	416640.4	725.73	MOWED GI	725.49	-0.24
62115	247454	416641.5	725.78	MOWED GI	725.42	-0.36
62116	247454.5	416644.4	725.76	MOWED GI	725.45	-0.31
62117	247457	416643.8	725.87	MOWED GI	725.46	-0.41
62118	247460.7	416643.1	725.84	MOWED GI	725.48	-0.36
62119	247463.3	416641.5	725.87	MOWED GI	725.48	-0.39
62120	247466.1	416640.5	725.83	MOWED GI	725.52	-0.31
62121	247467.6	416642.8	726.13	MOWED GI	725.53	-0.6
62122	247465	416644.3	725.82	MOWED GI	725.55	-0.27
62123	247462.2	416646.1	725.88	MOWED GI	725.57	-0.31
62124	247458.8	416647.7	725.87	MOWED GI	725.61	-0.26
62125	247455.7	416648.8	725.82	MOWED GI	725.54	-0.28
62126	248175.3	416573.5	723.92	ASPH	723.52	-0.4
62127	248171.7	416573.9	723.81	ASPH	723.57	-0.24

62128	248168.1	416574.7	723.67 ASPH	723.5	-0.17
62129	248164.4	416575.4	723.66 ASPH	723.44	-0.22
62130	248160.6	416576.3	723.63 ASPH	723.15	-0.48
62131	248160.1	416574	723.56 ASPH	723.17	-0.39
62132	248162.8	416573.2	723.61 ASPH	723.24	-0.37
62133	248166.6	416572.8	723.91 ASPH	723.49	-0.42
62134	248169.8	416572.3	723.82 ASPH	723.69	-0.13
62135	248173.1	416572.1	724.02 ASPH	723.5	-0.52
62136	248174.5	416568.1	723.87 ASPH	723.65	-0.22
62137	248170.3	416568.3	723.99 ASPH	723.58	-0.41
62138	248167.1	416568.5	723.72 ASPH	723.48	-0.24
62139	248162.4	416568.2	723.64 ASPH	723.27	-0.37
62140	248161.6	416564.3	723.61 ASPH	723.27	-0.34
62141	248176	416584.2	724 ASPH	723.71	-0.29
62142	248170.9	416584.9	723.86 ASPH	723.54	-0.32
62143	248166.6	416585.2	723.73 ASPH	723.32	-0.41
62144	248162.2	416585.5	723.54 ASPH	723.24	-0.3
62145	248177.7	416578.1	724.02 ASPH	723.73	-0.29
62146	247507.9	418176.2	721.16 BRUSH/LO\	721.45	0.29
62147	247508.4	418173.3	721.36 BRUSH/LO\	721.72	0.36
62148	247508.8	418170	721.4 BRUSH/LO\	721.78	0.38
62149	247509.8	418166.2	721.42 BRUSH/LO\	721.16	-0.26
62150	247510.1	418163.2	721.32 BRUSH/LO\	721.43	0.11
62151	247507.2	418164.3	721.09 BRUSH/LO\	721.21	0.12
62152	247506.8	418166.8	721.08 BRUSH/LO\	721.07	-0.01
62153	247506.2	418169.3	721.15 BRUSH/LO\	721.45	0.3
62154	247505.4	418172.1	721.17 BRUSH/LO\	721.52	0.35
62155	247504.4	418174.8	721.2 BRUSH/LO\	721.35	0.15
62156	247502.2	418174.2	721.26 BRUSH/LO\	721.44	0.18
62157	247502	418172	721.24 BRUSH/LO\	721.35	0.11
62158	247502.5	418169.4	720.96 BRUSH/LO\	721.37	0.41
62159	247503.7	418166.1	720.97 BRUSH/LO\	721.07	0.1
62160	247505	418163.9	720.99 BRUSH/LO\	721.24	0.25
62161	247499.2	418165.2	720.93 BRUSH/LO\	721.42	0.49
62162	247499.6	418169.4	721.61 BRUSH/LO\	721.22	-0.39
62163	247498.5	418171.7	721.41 BRUSH/LO\	721.17	-0.24
62164	247497.3	418174.3	721.3 BRUSH/LO\	721.14	-0.16
62165	247495.2	418176.9	720.9 BRUSH/LO\	721.1	0.2
62166	247493	418175.2	721.17 BRUSH/LO\	721.12	-0.05
62167	247493.9	418172.4	721.13 BRUSH/LO\	721.16	0.03
62168	247495	418169.3	721.13 BRUSH/LO\	721.26	0.13
62169	247495.9	418166	721.23 BRUSH/LO\	721.27	0.04
62170	247496.8	418163.3	720.96 BRUSH/LO\	721.31	0.35
62171	247581.3	418201.2	721.53 TALL GRAS	721.95	0.42
62172	247584.2	418201.8	721.26 TALL GRAS	721.81	0.55
62173	247587.7	418202.6	721.35 TALL GRAS	721.75	0.4
62174	247590.4	418203.4	721.21 TALL GRAS	721.82	0.61

62175	247592.9	418204.4	721.23 TALL GRAS	721.94	0.71
62176	247592.7	418206.8	721.33 TALL GRAS	721.93	0.6
62177	247590.3	418206.2	721.36 TALL GRAS	721.8	0.44
62178	247587.7	418205.4	721.45 TALL GRAS	721.7	0.25
62179	247585.6	418204.7	721.24 TALL GRAS	721.63	0.39
62180	247582.8	418203.8	721.33 TALL GRAS	721.79	0.46
62181	247582.2	418206.1	721.44 TALL GRAS	721.79	0.35
62182	247584.9	418206.9	721.39 TALL GRAS	721.71	0.32
62183	247587.8	418207.4	721.27 TALL GRAS	721.88	0.61
62184	247590.6	418208.2	721.34 TALL GRAS	721.91	0.57
62185	247593.6	418208.7	721.35 TALL GRAS	721.85	0.5
62186	247593.5	418211.5	721.45 TALL GRAS	721.89	0.44
62187	247591.2	418210.9	721.33 TALL GRAS	721.9	0.57
62188	247589	418210.2	721.4 TALL GRAS	722.02	0.62
62189	247587.3	418209.9	721.47 TALL GRAS	722.07	0.6
62190	247584.8	418209.1	721.5 TALL GRAS	721.9	0.4
62191	247583.9	418211.5	721.61 TALL GRAS	721.98	0.37
62192	247586.5	418212.2	721.5 TALL GRAS	722.02	0.52
62193	247588.9	418213	721.53 TALL GRAS	721.93	0.4
62194	247591.4	418213.8	721.66 TALL GRAS	721.86	0.2
62195	247594.3	418214.3	721.42 TALL GRAS	721.94	0.52
63026	241788	381420.6	1183.08 TALL GRAS	1183.51	0.43
63027	241788.4	381425.3	1183.06 TALL GRAS	1183.76	0.7
63028	241789	381428.7	1183.18 TALL GRAS	1183.57	0.39
63029	241789	381432.6	1182.87 TALL GRAS	1183.67	0.8
63030	241789.2	381436.5	1182.78 TALL GRAS	1183.74	0.96
63031	241785.9	381436.6	1182.7 TALL GRAS	1183.48	0.78
63032	241786.3	381434	1182.76 TALL GRAS	1183.76	1
63033	241785.9	381430.9	1182.84 TALL GRAS	1183.47	0.63
63034	241785.7	381427.6	1182.86 TALL GRAS	1183.56	0.7
63035	241785	381423.5	1182.9 TALL GRAS	1183.63	0.73
63036	241782	381423.2	1182.82 TALL GRAS	1183.51	0.69
63037	241781.9	381426.8	1182.69 TALL GRAS	1183.55	0.86
63038	241781.9	381430.4	1182.62 TALL GRAS	1183.46	0.84
63039	241781.7	381434.9	1182.57 TALL GRAS	1183.28	0.71
63040	241781.7	381439	1182.39 TALL GRAS	1183.41	1.02
63041	241778.2	381439.2	1182.25 TALL GRAS	1183.06	0.81
63042	241778.1	381436.2	1182.35 TALL GRAS	1183.08	0.73
63043	241777.8	381432.9	1182.45 TALL GRAS	1183.46	1.01
63044	241777.6	381429.9	1182.51 TALL GRAS	1183.52	1.01
63045	241777.1	381426.4	1182.53 TALL GRAS	1183.52	0.99
63046	241773.8	381426.6	1182.43 TALL GRAS	1183.27	0.84
63047	241774.4	381430.6	1182.37 TALL GRAS	1183.24	0.87
63048	241775.2	381434.1	1182.38 TALL GRAS	1183.37	0.99
63049	241775.9	381437.6	1182.34 TALL GRAS	1183.13	0.79
63050	241776.1	381440.8	1182.17 TALL GRAS	1183.3	1.13
63051	238531.3	393096.7	725.05 TALL GRAS	724.83	-0.22

63052	238535.1	393097.2	724.79 TALL GRAS	724.62	-0.17
63053	238538.7	393098	724.87 TALL GRAS	724.69	-0.18
63054	238542	393098.7	724.92 TALL GRAS	724.7	-0.22
63055	238544.9	393099.3	725 TALL GRAS	724.71	-0.29
63056	238544.6	393102.4	724.9 TALL GRAS	724.7	-0.2
63057	238541.8	393102.3	724.92 TALL GRAS	724.68	-0.24
63058	238538.5	393101.9	724.87 TALL GRAS	724.71	-0.16
63059	238535.3	393101.7	724.91 TALL GRAS	724.68	-0.23
63060	238532.5	393101.2	724.98 TALL GRAS	724.81	-0.17
63061	238532.1	393103.7	724.98 TALL GRAS	724.88	-0.1
63062	238534.7	393104.5	724.98 TALL GRAS	724.75	-0.23
63063	238537.7	393105.1	724.83 TALL GRAS	724.7	-0.13
63064	238540.8	393105.2	724.87 TALL GRAS	724.69	-0.18
63065	238543.5	393105.4	724.8 TALL GRAS	724.66	-0.14
63066	238543.1	393108	724.79 TALL GRAS	724.72	-0.07
63067	238540.1	393107.4	724.82 TALL GRAS	724.66	-0.16
63068	238537.4	393107	724.69 TALL GRAS	724.68	-0.01
63069	238534.3	393106.1	724.82 TALL GRAS	724.76	-0.06
63070	238531.8	393106	724.96 TALL GRAS	724.85	-0.11
63071	238531.2	393108.8	724.88 TALL GRAS	724.84	-0.04
63072	238534.3	393109.2	724.9 TALL GRAS	724.72	-0.18
63073	238537.2	393110	724.71 TALL GRAS	724.64	-0.07
63074	238540	393109.9	724.78 TALL GRAS	724.63	-0.15
63075	238542	393109.9	724.8 TALL GRAS	724.66	-0.14
63102	230852.7	400245.2	751.69 MOWED GRAS	751.87	0.18
63103	230854.7	400242.1	751.56 MOWED GRAS	751.6	0.04
63104	230848.6	400254.8	752.54 MOWED GRAS	752.7	0.16
63105	230846.6	400258.2	752.89 MOWED GRAS	753.01	0.12
63106	230844.5	400254	752.61 MOWED GRAS	752.96	0.35
63107	230846.8	400250.4	752.41 MOWED GRAS	752.6	0.19
63108	230848.8	400247.1	752.02 MOWED GRAS	752.07	0.05
63109	230851.2	400243.7	751.68 MOWED GRAS	751.77	0.09
63110	230853.6	400240.3	751.39 MOWED GRAS	751.36	-0.03
63111	230856.4	400236.2	750.86 MOWED GRAS	751.12	0.26
63112	230853.2	400234.1	750.85 MOWED GRAS	750.98	0.13
63113	230851.6	400237.6	751.2 MOWED GRAS	751.32	0.12
63114	230850.2	400241.3	751.48 MOWED GRAS	751.62	0.14
63115	230848.5	400245	751.9 MOWED GRAS	751.91	0.01
63116	230844.3	400242.8	751.94 MOWED GRAS	752.12	0.18
63117	230846.2	400239.6	751.58 MOWED GRAS	751.83	0.25
63118	230848	400235.9	751.2 MOWED GRAS	751.5	0.3
63119	230850.6	400232.7	750.88 MOWED GRAS	751.1	0.22
63120	230852.3	400230	750.7 MOWED GRAS	750.94	0.24
63121	230849.1	400228.8	750.8 MOWED GRAS	751.1	0.3
63122	230846.8	400232.1	751.13 MOWED GRAS	751.44	0.31
63123	230844.9	400235.7	751.46 MOWED GRAS	751.74	0.28
63124	230843	400239.5	751.78 MOWED GRAS	752.03	0.25

63125	230840.7	400243.1	752.14 MOWED GI	752.37	0.23
63126	228610.3	399828	749.56 BRUSH/LO\	749.89	0.33
63127	228607.5	399827.2	749.55 BRUSH/LO\	749.97	0.42
63128	228604.6	399826.3	749.44 BRUSH/LO\	749.97	0.53
63129	228601.8	399823.6	749.45 BRUSH/LO\	749.84	0.39
63130	228598.2	399821.3	749.44 BRUSH/LO\	749.71	0.27
63131	228593.9	399822.9	749.39 BRUSH/LO\	750.06	0.67
63132	228596.9	399825.5	749.46 BRUSH/LO\	750.05	0.59
63133	228599.7	399827.3	749.52 BRUSH/LO\	750.07	0.55
63134	228601.7	399829.2	749.63 BRUSH/LO\	750.06	0.43
63135	228605	399830.4	749.7 BRUSH/LO\	749.97	0.27
63136	228602.6	399832.2	749.76 BRUSH/LO\	750.02	0.26
63137	228599.6	399830.5	749.62 BRUSH/LO\	750.18	0.56
63138	228596.7	399828.8	749.63 BRUSH/LO\	750.01	0.38
63139	228593.4	399827.6	749.55 BRUSH/LO\	750.01	0.46
63140	228589.8	399826.4	749.46 BRUSH/LO\	749.96	0.5
63141	228589.1	399830.3	749.6 BRUSH/LO\	749.85	0.25
63142	228592.3	399831.7	749.74 BRUSH/LO\	750.16	0.42
63143	228594.8	399832.7	749.68 BRUSH/LO\	750.34	0.66
63144	228597.9	399834	749.81 BRUSH/LO\	750.37	0.56
63145	228601.2	399835.3	749.69 BRUSH/LO\	750.29	0.6
63146	228598.7	399838.1	749.75 BRUSH/LO\	750.35	0.6
63147	228595.5	399836.8	749.77 BRUSH/LO\	750.34	0.57
63148	228592.7	399836	749.79 BRUSH/LO\	750.3	0.51
63149	228589.7	399834.6	749.88 BRUSH/LO\	750.15	0.27
63150	228586.7	399833.9	749.72 BRUSH/LO\	750.26	0.54
63151	235293.8	384755.1	820.2 GRAV	819.36	-0.84
63152	235297.5	384754.7	820.44 GRAV	819.61	-0.83
63153	235301.3	384754.2	820.64 GRAV	819.79	-0.85
63154	235304.8	384753.8	820.8 GRAV	819.95	-0.85
63155	235308.3	384753.3	820.94 GRAV	820.2	-0.74
63156	235307.7	384749.9	820.98 GRAV	820.03	-0.95
63157	235304.2	384750.4	820.87 GRAV	819.8	-1.07
63158	235300.8	384751.3	820.75 GRAV	819.72	-1.03
63159	235297.5	384751.7	820.5 GRAV	819.55	-0.95
63160	235293.6	384752.4	820.22 GRAV	819.35	-0.87
63161	235292.8	384749.1	820.11 GRAV	819.19	-0.92
63162	235296.4	384748.9	820.42 GRAV	819.45	-0.97
63163	235300.3	384748.6	820.64 GRAV	819.66	-0.98
63164	235303.7	384748.2	820.75 GRAV	819.73	-1.02
63165	235307.1	384747.6	821 GRAV	820.03	-0.97
63166	235307	384744.4	820.86 GRAV	819.91	-0.95
63167	235303.5	384744.9	820.74 GRAV	819.68	-1.06
63168	235299.4	384745.8	820.48 GRAV	819.57	-0.91
63169	235295.3	384746.4	820.2 GRAV	819.37	-0.83
63170	235291	384746.8	819.94 GRAV	818.99	-0.95
63171	235290.7	384743.7	819.77 GRAV	818.84	-0.93

63172	235293.8	384743.1	819.93	GRAV	819.01	-0.92
63173	235297.4	384742.6	820.14	GRAV	819.23	-0.91
63174	235300.6	384742.4	820.37	GRAV	819.37	-1
63175	235304.5	384741.7	820.54	GRAV	819.53	-1.01
63201	215921.4	398059.4	742.83	MOWED GI	742.74	-0.09
63202	215921.6	398055.4	742.66	MOWED GI	742.43	-0.23
63203	215921.6	398051.1	742.45	MOWED GI	742.28	-0.17
63204	215920.7	398047.1	742.34	MOWED GI	742.26	-0.08
63205	215921.5	398042.5	742.15	MOWED GI	742.01	-0.14
63206	215917.5	398042	742.12	MOWED GI	741.95	-0.17
63207	215917.4	398046.1	742.29	MOWED GI	742.13	-0.16
63208	215917	398050.3	742.45	MOWED GI	742.41	-0.04
63209	215916.7	398054.9	742.63	MOWED GI	742.45	-0.18
63210	215916.5	398059.4	742.84	MOWED GI	742.68	-0.16
63211	215912.8	398059.6	742.71	MOWED GI	742.57	-0.14
63212	215913.1	398055.8	742.5	MOWED GI	742.44	-0.06
63213	215913.3	398052.9	742.48	MOWED GI	742.38	-0.1
63214	215914.5	398048.2	742.24	MOWED GI	742.26	0.02
63215	215913.8	398044.5	742.08	MOWED GI	741.89	-0.19
63216	215910.4	398044.8	742	MOWED GI	741.84	-0.16
63217	215910.3	398048.5	742.17	MOWED GI	742.14	-0.03
63218	215910.4	398052.2	742.31	MOWED GI	742.35	0.04
63219	215910	398056.9	742.55	MOWED GI	742.43	-0.12
63220	215910.2	398061.1	742.71	MOWED GI	742.6	-0.11
63221	215907.2	398061.4	742.71	MOWED GI	742.59	-0.12
63222	215906.9	398058.4	742.57	MOWED GI	742.46	-0.11
63223	215907	398054.9	742.41	MOWED GI	742.39	-0.02
63224	215906.7	398051.9	742.24	MOWED GI	742.3	0.06
63225	215906.5	398048.5	742.13	MOWED GI	741.99	-0.14
63226	219291.6	397258.1	701.19	CONC	701.2	0.01
63227	219292.6	397255.3	701.18	CONC	701.05	-0.13
63228	219294	397251.7	701.19	CONC	701.07	-0.12
63229	219295.3	397248.4	701.18	CONC	701.13	-0.05
63230	219296.8	397245.1	701.15	CONC	701.1	-0.05
63231	219299.6	397246.2	701.22	CONC	701.14	-0.08
63232	219298.4	397250	701.24	CONC	701.27	0.03
63233	219296.8	397253.5	701.26	CONC	701.13	-0.13
63234	219294.7	397256.3	701.27	CONC	701.14	-0.13
63235	219293.9	397259.6	701.27	CONC	701.25	-0.02
63236	219297.3	397260.8	701.27	CONC	701.3	0.03
63237	219298.4	397257.5	701.27	CONC	701.23	-0.04
63238	219299.7	397254.1	701.29	CONC	701.21	-0.08
63239	219301.5	397250.3	701.27	CONC	701.1	-0.17
63240	219302.9	397246.8	701.24	CONC	700.99	-0.25
63241	219306	397247.7	701.21	CONC	701.1	-0.11
63242	219303.5	397253	701.25	CONC	701.22	-0.03
63243	219302.7	397257.9	701.24	CONC	701.27	0.03

63244	219301.6	397260.9	701.26 CONC	701.24	-0.02
63245	219300.4	397264.1	701.25 CONC	701.31	0.06
63246	219304	397263.8	701.24 CONC	701.13	-0.11
63247	219305.3	397260.6	701.25 CONC	701.26	0.01
63248	219306.5	397257.4	701.22 CONC	701.22	0
63249	219308.2	397254	701.21 CONC	701.13	-0.08
63250	219309.7	397250.6	701.21 CONC	701.06	-0.15
65201	133816.3	384686.7	680.64 BRUSH/LOI	680.75	0.11
65202	133818.1	384683	680.71 BRUSH/LOI	680.69	-0.02
65203	133819.6	384679.3	680.75 BRUSH/LOI	680.66	-0.09
65204	133819.8	384679.3	680.74 BRUSH/LOI	680.67	-0.07
65205	133820.6	384676.4	680.75 BRUSH/LOI	680.71	-0.04
65206	133822.8	384675	680.83 BRUSH/LOI	680.95	0.12
65207	133822.5	384678.3	680.9 BRUSH/LOI	680.93	0.03
65208	133821.6	384682.1	680.93 BRUSH/LOI	680.96	0.03
65209	133820.4	384685.7	680.98 BRUSH/LOI	680.92	-0.06
65210	133819.7	384689.6	681.03 BRUSH/LOI	680.75	-0.28
65211	133823.1	384690	681.45 BRUSH/LOI	681.32	-0.13
65212	133823.7	384685.8	681.29 BRUSH/LOI	681.13	-0.16
65213	133824.5	384681.4	681.22 BRUSH/LOI	681.09	-0.13
65214	133825.3	384677.8	681.21 BRUSH/LOI	681.16	-0.05
65215	133825.8	384674.5	681.19 BRUSH/LOI	680.93	-0.26
65216	133826.8	384671.3	681.08 BRUSH/LOI	681.04	-0.04
65217	133829.3	384671.6	681.38 BRUSH/LOI	681.3	-0.08
65218	133828.9	384675.3	681.5 BRUSH/LOI	681.21	-0.29
65219	133828.3	384680.2	681.65 BRUSH/LOI	681.47	-0.18
65220	133828.1	384684.2	681.69 BRUSH/LOI	681.4	-0.29
65221	133827.5	384687.8	681.81 BRUSH/LOI	681.6	-0.21
65222	133827.7	384691.9	682.13 BRUSH/LOI	681.89	-0.24
65223	133831	384684.9	682.14 BRUSH/LOI	681.76	-0.38
65224	133830.1	384680.1	681.86 BRUSH/LOI	681.74	-0.12
65225	133830.3	384675	681.66 BRUSH/LOI	681.36	-0.3
65226	133875	384995.7	706.27 TREE COVE	706.25	-0.02
65227	133871	384991.1	705.57 TREE COVE	705.25	-0.32
65228	133867.4	384989.7	705.07 TREE COVE	704.56	-0.51
65229	133864.5	384988.9	704.45 TREE COVE	704.6	0.15
65230	133861.9	384988.9	703.97 TREE COVE	704.1	0.13
65231	133861.1	384991.4	704.31 TREE COVE	704.13	-0.18
65232	133863	384992.2	704.83 TREE COVE	704.38	-0.45
65233	133865.9	384993.2	705.12 TREE COVE	704.71	-0.41
65234	133865.9	384992.7	705.03 TREE COVE	704.61	-0.42
65235	133868.2	384994.5	705.48 TREE COVE	705.29	-0.19
65236	133870.7	384996.1	706.05 TREE COVE	705.77	-0.28
65237	133868.5	384985.6	704.75 TREE COVE	704.33	-0.42
65238	133865.6	384984.6	704.26 TREE COVE	704.08	-0.18
65239	133871	384987.2	705.13 TREE COVE	704.87	-0.26
65240	133873	384988.2	705.61 TREE COVE	705.26	-0.35

65241	133870.3	384980.6	704.36 TREE COVE	704	-0.36
65242	133872.7	384981.6	704.75 TREE COVE	704.44	-0.31
65243	133874.9	384983.2	705.12 TREE COVE	705.03	-0.09
65244	133877.4	384984.1	705.53 TREE COVE	705.52	-0.01
65245	133867.6	384981.8	704.1 TREE COVE	704.18	0.08
65246	133865.2	384981	703.72 TREE COVE	703.79	0.07
65251	134110.9	385103.4	736.97 TALL GRAS	736.79	-0.18
65252	134110.5	385099.5	736.85 TALL GRAS	736.67	-0.18
65253	134110.1	385095.9	736.66 TALL GRAS	736.42	-0.24
65254	134109.5	385092	736.44 TALL GRAS	736.19	-0.25
65255	134109.6	385088.6	736.27 TALL GRAS	735.98	-0.29
65256	134112.9	385088.4	736.47 TALL GRAS	736.33	-0.14
65257	134112.7	385091.3	736.58 TALL GRAS	736.57	-0.01
65258	134112.5	385094.2	736.76 TALL GRAS	736.8	0.04
65259	134112	385097	736.8 TALL GRAS	736.68	-0.12
65260	134111.4	385099.9	736.87 TALL GRAS	736.8	-0.07
65261	134114.3	385099.9	737.04 TALL GRAS	737.12	0.08
65262	134114.4	385097.4	736.93 TALL GRAS	736.94	0.01
65263	134114.8	385094.9	736.88 TALL GRAS	737.15	0.27
65264	134115.6	385092.4	736.77 TALL GRAS	737.31	0.54
65265	134115.9	385089.5	736.67 TALL GRAS	736.61	-0.06
65266	134118.6	385090.1	736.66 TALL GRAS	736.78	0.12
65267	134118.4	385093.9	736.78 TALL GRAS	737.62	0.84
65268	134118.1	385096.3	736.93 TALL GRAS	737.45	0.52
65269	134117.6	385099.3	736.98 TALL GRAS	737.3	0.32
65270	134117	385101.5	737.13 TALL GRAS	737.19	0.06
65271	134119.6	385101.8	737.25 TALL GRAS	737.49	0.24
65272	134120.9	385099	737.25 TALL GRAS	737.55	0.3
65273	134121.7	385096.7	737.32 TALL GRAS	737.68	0.36
65274	134122.8	385094.3	737.31 TALL GRAS	737.55	0.24
65275	134123.9	385092.1	737.32 TALL GRAS	737.22	-0.1
65276	133923.4	387140.9	653.74 ASPH	653.36	-0.38
65277	133920	387141.9	653.71 ASPH	653.46	-0.25
65278	133916	387142.8	653.66 ASPH	653.5	-0.16
65279	133912.4	387143.5	653.61 ASPH	653.45	-0.16
65280	133908.7	387144.4	653.59 ASPH	653.31	-0.28
65281	133909.1	387147.5	653.75 ASPH	653.39	-0.36
65282	133912.2	387146.5	653.71 ASPH	653.6	-0.11
65283	133915.6	387145.6	653.77 ASPH	653.56	-0.21
65284	133919.3	387144.3	653.75 ASPH	653.53	-0.22
65285	133923.2	387143.1	653.82 ASPH	653.58	-0.24
65286	133924.2	387146.2	653.97 ASPH	653.71	-0.26
65287	133921.1	387147.5	653.96 ASPH	653.55	-0.41
65288	133916.8	387148.5	653.92 ASPH	653.66	-0.26
65289	133912.9	387149.3	653.86 ASPH	653.61	-0.25
65290	133908.8	387150.2	653.83 ASPH	653.43	-0.4
65291	133909.8	387154.7	653.95 ASPH	653.68	-0.27

65292	133913.2	387153.7	653.97 ASPH	653.76	-0.21
65293	133916.7	387152.5	654.01 ASPH	653.91	-0.1
65294	133919.8	387151.5	654.02 ASPH	653.73	-0.29
65295	133922.8	387150.5	654.04 ASPH	653.79	-0.25
65296	133923.7	387153.5	654.17 ASPH	653.97	-0.2
65297	133920.9	387154.4	654.14 ASPH	653.79	-0.35
65298	133917.3	387155.6	654.12 ASPH	654.05	-0.07
65299	133914.4	387156.5	654.09 ASPH	653.88	-0.21
65300	133911.3	387157.6	654.09 ASPH	653.79	-0.3
65301	133872.3	387170.1	653.2 GRAV	652.92	-0.28
65302	133873.3	387173.6	653.29 GRAV	653.03	-0.26
65303	133874.3	387177.8	653.33 GRAV	653.32	-0.01
65304	133875.4	387181.6	653.37 GRAV	653.19	-0.18
65305	133876.3	387185.2	653.38 GRAV	653.01	-0.37
65306	133873.1	387185.9	653.26 GRAV	652.88	-0.38
65307	133872.5	387183.1	653.27 GRAV	653.04	-0.23
65308	133871.9	387180.1	653.27 GRAV	653.09	-0.18
65309	133871.1	387176.7	653.25 GRAV	653.11	-0.14
65310	133870.6	387173.4	653.23 GRAV	652.89	-0.34
65311	133867.3	387174	653.16 GRAV	652.92	-0.24
65312	133867.9	387177.2	653.16 GRAV	653.11	-0.05
65313	133868.7	387180.9	653.17 GRAV	652.97	-0.2
65314	133869.4	387184.1	653.17 GRAV	652.93	-0.24
65315	133870.2	387187.7	653.17 GRAV	652.89	-0.28
65316	133866.9	387188.5	653.07 GRAV	652.86	-0.21
65317	133866.2	387185.2	653.08 GRAV	652.95	-0.13
65318	133865.8	387182	653.08 GRAV	652.93	-0.15
65319	133865.3	387179	653.08 GRAV	652.97	-0.11
65320	133864.7	387176	653.06 GRAV	653.01	-0.05
65321	133861.7	387176.4	652.96 GRAV	652.84	-0.12
65322	133862.4	387179.5	653.02 GRAV	652.8	-0.22
65323	133862.7	387182.6	653.03 GRAV	652.81	-0.22
65324	133863.1	387185.9	653.01 GRAV	652.8	-0.21
65325	133863.6	387189.2	653.01 GRAV	652.83	-0.18
65326	134269	386835.4	669.55 MOWED GI	669.37	-0.18
65327	134268.3	386831.1	669.49 MOWED GI	669.39	-0.1
65328	134267.3	386827.4	669.49 MOWED GI	669.36	-0.13
65329	134266.6	386824.1	669.52 MOWED GI	669.3	-0.22
65330	134265.6	386820	669.51 MOWED GI	669.38	-0.13
65331	134268.4	386819.4	669.54 MOWED GI	669.44	-0.1
65332	134269.1	386822.8	669.59 MOWED GI	669.39	-0.2
65333	134269.8	386826.1	669.52 MOWED GI	669.37	-0.15
65334	134270.5	386829.1	669.52 MOWED GI	669.41	-0.11
65335	134271.3	386832.3	669.52 MOWED GI	669.46	-0.06
65336	134274	386831.3	669.61 MOWED GI	669.47	-0.14
65337	134273.4	386828.3	669.59 MOWED GI	669.46	-0.13
65338	134272.8	386825.3	669.62 MOWED GI	669.51	-0.11

65339	134272.1	386822.3	669.65 MOWED GI	669.51	-0.14
65340	134271.5	386819	669.61 MOWED GI	669.54	-0.07
65341	134274.6	386818.1	669.65 MOWED GI	669.6	-0.05
65342	134275.4	386821.6	669.63 MOWED GI	669.54	-0.09
65343	134276.3	386824.6	669.65 MOWED GI	669.48	-0.17
65344	134276.8	386827.6	669.61 MOWED GI	669.44	-0.17
65345	134277.4	386830.5	669.61 MOWED GI	669.44	-0.17
65346	134265.4	386833.5	669.48 MOWED GI	669.36	-0.12
65347	134264.5	386829.6	669.5 MOWED GI	669.42	-0.08
65348	134264.1	386826.5	669.49 MOWED GI	669.47	-0.02
65349	134263.4	386822.7	669.53 MOWED GI	669.37	-0.16
65350	134262.5	386819.6	669.43 MOWED GI	669.38	-0.05
62001	264338.6	395977.3	1170.73 TREE COVE	0	0
62002	264340.4	395980.4	1170.48 TREE COVE	0	0
62003	264342.6	395984.1	1170.61 TREE COVE	0	0
62004	264344.5	395986.6	1170.71 TREE COVE	0	0
62005	264346	395988.3	1170.8 TREE COVE	0	0
62006	264347.6	395986.7	1170.56 TREE COVE	0	0
62007	264346.8	395984.5	1170.33 TREE COVE	0	0
62008	264343.3	395981.7	1170.43 TREE COVE	0	0
62009	264341.7	395979.2	1170.56 TREE COVE	0	0
62010	264341.4	395976.7	1170.51 TREE COVE	0	0
62011	264342.5	395974.9	1170.34 TREE COVE	0	0
62012	264344	395977.6	1170.38 TREE COVE	0	0
62013	264345.7	395980.4	1170.27 TREE COVE	0	0
62014	264347.3	395983.4	1170.25 TREE COVE	0	0
62015	264348.7	395986.1	1170.32 TREE COVE	0	0
62016	264350.6	395984.4	1170.07 TREE COVE	0	0
62017	264349.2	395982.1	1170.23 TREE COVE	0	0
62018	264347.6	395980.7	1170.07 TREE COVE	0	0
62019	264346	395977.9	1170.13 TREE COVE	0	0
62020	264344.5	395975.3	1170.26 TREE COVE	0	0
62021	264347.4	395975.6	1169.92 TREE COVE	0	0
62022	264348.8	395978.1	1170.06 TREE COVE	0	0
62023	264350.1	395980.6	1170.07 TREE COVE	0	0
62024	264351.3	395983	1170.07 TREE COVE	0	0
62025	264352.8	395985.4	1169.94 TREE COVE	0	0
62200	247808.3	418230	727.45 TREE COVE	727.25	-0.2
62201	247806.3	418233	727.43 TREE COVE	727.32	-0.11
62202	247804	418235.1	727.65 TREE COVE	727.46	-0.19
62203	247801.7	418237.3	727.63 TREE COVE	727.65	0.02
62204	247799.7	418239.3	727.77 TREE COVE	727.8	0.03
62205	247801	418241.1	727.9 TREE COVE	727.91	0.01
62206	247802.9	418239.2	727.77 TREE COVE	727.64	-0.13
62207	247803.3	418238.6	727.94 TREE COVE	727.59	-0.35
62208	247807.2	418235	727.58 TREE COVE	727.38	-0.2
62209	247809.5	418232.1	727.53 TREE COVE	727.27	-0.26

62210	247811.6	418234.2	727.7 TREE COVE	727.5	-0.2
62211	247808.7	418236.1	727.7 TREE COVE	727.42	-0.28
62212	247806.3	418238.6	727.75 TREE COVE	727.56	-0.19
62213	247803.6	418240.7	727.86 TREE COVE	727.74	-0.12
62214	247801.5	418242.5	727.97 TREE COVE	728	0.03
62215	247804.4	418244.6	728.15 TREE COVE	728.03	-0.12
62216	247806.8	418242.6	728.06 TREE COVE	727.91	-0.15
62217	247810.2	418239.9	727.88 TREE COVE	727.8	-0.08
62218	247812.4	418238.1	727.79 TREE COVE	727.6	-0.19
62219	247815.8	418236.9	727.82 TREE COVE	727.55	-0.27
62220	247816.8	418238.4	727.93 TREE COVE	727.62	-0.31
62221	247814.6	418240.3	728.04 TREE COVE	727.84	-0.2
62222	247812.3	418242.4	728.14 TREE COVE	728.1	-0.04
62223	247810	418244.2	728.12 TREE COVE	728.2	0.08
62224	247808.1	418246	728.42 TREE COVE	728.17	-0.25
63001	241804.3	381585.3	1175.24 TREE COVE	1175.54	0.3
63002	241803.7	381588.8	1175.06 TREE COVE	1175.24	0.18
63003	241803.8	381592.3	1174.83 TREE COVE	1174.9	0.07
63004	241803.6	381596.1	1174.56 TREE COVE	1174.65	0.09
63005	241803.6	381599.5	1174.26 TREE COVE	1174.54	0.28
63006	241806.5	381599.8	1174.32 TREE COVE	1174.53	0.21
63007	241806.6	381595.3	1174.73 TREE COVE	1174.78	0.05
63008	241806.9	381593.7	1174.77 TREE COVE	1174.89	0.12
63009	241807.1	381587.5	1175.07 TREE COVE	1175.29	0.22
63010	241806.6	381583.5	1175.6 TREE COVE	1175.57	-0.03
63011	241812.1	381585.3	1175.18 TREE COVE	1175.1	-0.08
63012	241811.2	381589	1174.96 TREE COVE	1175.06	0.1
63013	241810.4	381593.2	1174.72 TREE COVE	1174.84	0.12
63014	241811.2	381597.1	1174.51 TREE COVE	1174.49	-0.02
63015	241811	381600.3	1174.16 TREE COVE	1174.26	0.1
63016	241813.7	381600.6	1174.02 TREE COVE	1174.01	-0.01
63017	241814.3	381596.9	1174.32 TREE COVE	1174.51	0.19
63018	241814.9	381593.1	1174.61 TREE COVE	1174.78	0.17
63019	241815.4	381588.9	1174.86 TREE COVE	1175.09	0.23
63020	241816.1	381583.9	1175.17 TREE COVE	1175.48	0.31
63021	241819.8	381584.2	1175.28 TREE COVE	1175.62	0.34
63022	241819.2	381587.6	1174.93 TREE COVE	1175.14	0.21
63023	241818.4	381591.2	1174.71 TREE COVE	1174.97	0.26
63024	241817.9	381594.8	1174.51 TREE COVE	1174.68	0.17
63025	241816.4	381596.3	1174.43 TREE COVE	1174.58	0.15
63076	235449.4	396735.2	715.06 TREE COVE	714.15	-0.91
63077	235453.4	396736.3	715.2 TREE COVE	714.33	-0.87
63078	235456.3	396736.8	715.15 TREE COVE	714.3	-0.85
63079	235459.8	396737.5	715.02 TREE COVE	714.13	-0.89
63080	235462.7	396738.3	714.88 TREE COVE	714.23	-0.65
63081	235464	396735.6	714.84 TREE COVE	714.1	-0.74
63082	235461.4	396735.1	714.99 TREE COVE	714.25	-0.74

63083	235458.9	396734.2	715.1 TREE COVE	714.49	-0.61
63084	235454.6	396732.9	715.16 TREE COVE	714.57	-0.59
63085	235451.7	396732.1	715.07 TREE COVE	714.31	-0.76
63086	235452.6	396729.2	715.01 TREE COVE	714.43	-0.58
63087	235455.8	396730.5	715.13 TREE COVE	714.56	-0.57
63088	235458.5	396731.8	715.2 TREE COVE	714.54	-0.66
63089	235461.8	396732.6	714.98 TREE COVE	714.29	-0.69
63090	235465.4	396733.8	714.86 TREE COVE	714.07	-0.79
63091	235466.7	396731.2	715.06 TREE COVE	714.04	-1.02
63092	235463.7	396730.3	714.95 TREE COVE	714.31	-0.64
63093	235461.1	396729.5	715.14 TREE COVE	714.48	-0.66
63094	235458.3	396729	715 TREE COVE	714.56	-0.44
63095	235456.1	396728.3	715.09 TREE COVE	714.63	-0.46
63096	235455.8	396725.6	715.05 TREE COVE	714.6	-0.45
63097	235458.2	396726.7	715.18 TREE COVE	714.63	-0.55
63098	235459.7	396727.3	715.02 TREE COVE	714.67	-0.35
63099	235463.2	396728.4	715.13 TREE COVE	714.42	-0.71
63100	235466.3	396729.6	714.93 TREE COVE	714.04	-0.89
64001	209945.1	400812.5	691.82 TREE COVE	691.99	0.17
64002	209941.4	400813.6	691.79 TREE COVE	692.09	0.3
64003	209938.4	400814.7	691.72 TREE COVE	691.99	0.27
64004	209934.9	400815.9	691.72 TREE COVE	691.92	0.2
64005	209931.3	400817	691.69 TREE COVE	691.73	0.04
64006	209930.4	400814.3	691.69 TREE COVE	691.79	0.1
64007	209933.7	400813.2	691.74 TREE COVE	691.92	0.18
64008	209936.4	400812.2	691.73 TREE COVE	691.93	0.2
64009	209939.4	400811	691.83 TREE COVE	692.04	0.21
64010	209942	400810	691.83 TREE COVE	692.04	0.21
64011	209941	400807.4	691.92 TREE COVE	692.17	0.25
64012	209938.3	400808.4	691.83 TREE COVE	692.05	0.22
64013	209935.8	400809.7	691.83 TREE COVE	691.96	0.13
64014	209933	400810.8	691.78 TREE COVE	691.92	0.14
64015	209930.3	400812.3	691.67 TREE COVE	691.77	0.1
64016	209928.6	400809.4	691.89 TREE COVE	692	0.11
64017	209931.7	400808.4	691.75 TREE COVE	691.9	0.15
64018	209934.1	400807.5	691.77 TREE COVE	691.96	0.19
64019	209936.9	400806.7	691.83 TREE COVE	692.13	0.3
64020	209939.1	400805.9	691.9 TREE COVE	692.24	0.34
64021	209937.1	400803.2	691.94 TREE COVE	692.31	0.37
64022	209934.5	400804.5	691.91 TREE COVE	692.13	0.22
64023	209931.6	400806.1	691.79 TREE COVE	691.93	0.14
64024	209928.1	400807.7	691.83 TREE COVE	692	0.17
64025	209925.2	400809.2	691.83 TREE COVE	691.92	0.09
64026	209707.1	400806.2	691.33 BRUSH/LO\	692.26	0.93
64027	209704.9	400805	691.27 BRUSH/LO\	691.97	0.7
64028	209702.3	400803.3	691.19 BRUSH/LO\	691.74	0.55
64029	209699.8	400802.2	691.24 BRUSH/LO\	691.83	0.59

64030	209697	400801	691.31	BRUSH/LO\	692.3	0.99
64031	209696.8	400802.6	691.36	BRUSH/LO\	692.18	0.82
64032	209699.1	400803.7	691.3	BRUSH/LO\	691.84	0.54
64033	209701.8	400805.1	691.2	BRUSH/LO\	691.7	0.5
64034	209704	400806.4	691.24	BRUSH/LO\	691.98	0.74
64035	209706.5	400807.5	691.27	BRUSH/LO\	692.17	0.9
64036	209705.4	400809.4	691.3	BRUSH/LO\	691.94	0.64
64037	209703.3	400808.3	691.25	BRUSH/LO\	691.89	0.64
64038	209701.3	400807.4	691.23	BRUSH/LO\	691.76	0.53
64039	209699.2	400806.4	691.31	BRUSH/LO\	691.79	0.48
64040	209696.9	400805.5	691.41	BRUSH/LO\	691.96	0.55
64041	209695.9	400807.4	691.32	BRUSH/LO\	691.9	0.58
64042	209698.1	400808.5	691.32	BRUSH/LO\	691.92	0.6
64043	209699.8	400809.5	691.25	BRUSH/LO\	691.8	0.55
64044	209701.7	400811	691.36	BRUSH/LO\	691.93	0.57
64045	209703.7	400812.1	691.35	BRUSH/LO\	691.89	0.54
64046	209702.5	400814.1	691.39	BRUSH/LO\	691.85	0.46
64047	209700.3	400813.1	691.32	BRUSH/LO\	691.96	0.64
64048	209698.7	400811.5	691.44	BRUSH/LO\	692.02	0.58
64049	209695.9	400809.8	691.53	BRUSH/LO\	692.18	0.65
64050	209694.4	400807.9	691.41	BRUSH/LO\	692.02	0.61
64051	209746.4	400829.5	691.77	TALL GRAS	692.48	0.71
64052	209749.1	400829.7	691.82	TALL GRAS	692.86	1.04
64053	209751.8	400830	691.87	TALL GRAS	693.07	1.2
64054	209753.9	400830.1	691.93	TALL GRAS	692.74	0.81
64055	209756.8	400830.3	691.91	TALL GRAS	692.56	0.65
64056	209756.7	400832.3	691.9	TALL GRAS	692.47	0.57
64057	209754.7	400832.1	691.81	TALL GRAS	692.54	0.73
64058	209752.6	400832	691.79	TALL GRAS	692.82	1.03
64059	209750.8	400832.2	691.73	TALL GRAS	692.84	1.11
64060	209748.9	400832	691.8	TALL GRAS	692.74	0.94
64061	209748.8	400834.5	691.68	TALL GRAS	692.47	0.79
64062	209751.4	400834.8	691.77	TALL GRAS	692.53	0.76
64063	209754.3	400835	691.73	TALL GRAS	692.53	0.8
64064	209757.1	400835.2	691.72	TALL GRAS	692.61	0.89
64065	209759.1	400835.2	691.8	TALL GRAS	692.55	0.75
64066	209758.6	400837.6	691.85	TALL GRAS	692.75	0.9
64067	209756.6	400837.4	691.79	TALL GRAS	692.71	0.92
64068	209754.6	400837	691.8	TALL GRAS	692.55	0.75
64069	209752.8	400836.5	691.65	TALL GRAS	692.61	0.96
64070	209750.4	400836.4	691.78	TALL GRAS	692.46	0.68
64071	209750.5	400838.9	691.69	TALL GRAS	692.43	0.74
64072	209752.7	400839	691.86	TALL GRAS	692.58	0.72
64073	209756	400839.7	691.87	TALL GRAS	692.76	0.89
64074	209758.5	400840	691.93	TALL GRAS	692.94	1.01
64075	209761	400840.5	691.84	TALL GRAS	692.83	0.99
65001	169510.3	394338.4	671.57	ASPH	671.28	-0.29

65002	169513.8	394338.7	671.44 ASPH	671.33	-0.11
65003	169518.6	394339.6	671.29 ASPH	671.11	-0.18
65004	169523.3	394340.7	671.12 ASPH	670.89	-0.23
65005	169528.3	394340.5	670.85 ASPH	670.55	-0.3
65006	169529.9	394337.2	670.81 ASPH	670.7	-0.11
65007	169526.1	394336.2	671 ASPH	670.8	-0.2
65008	169522	394335.8	671.18 ASPH	670.94	-0.24
65009	169518.8	394335.1	671.31 ASPH	671.09	-0.22
65010	169515.3	394334.5	671.43 ASPH	671.23	-0.2
65011	169513.2	394330.1	671.54 ASPH	671.26	-0.28
65012	169516.5	394330.4	671.4 ASPH	671.22	-0.18
65013	169520.8	394331	671.25 ASPH	670.97	-0.28
65014	169524.6	394331.4	671.07 ASPH	670.81	-0.26
65015	169529.2	394332	670.89 ASPH	670.67	-0.22
65016	169530.2	394328.3	670.84 ASPH	670.55	-0.29
65017	169526.4	394327.5	671.03 ASPH	670.75	-0.28
65018	169522.9	394327	671.19 ASPH	671.01	-0.18
65019	169519.3	394326.3	671.35 ASPH	671.08	-0.27
65020	169515.7	394326	671.48 ASPH	671.33	-0.15
65021	169515.6	394322.2	671.53 ASPH	671.35	-0.18
65022	169519.4	394322.6	671.37 ASPH	671.12	-0.25
65023	169523.1	394323.1	671.19 ASPH	671.06	-0.13
65024	169527.7	394323.6	670.96 ASPH	670.59	-0.37
65025	169532.3	394324.4	670.74 ASPH	670.43	-0.31
65026	169540.1	394644.5	670.79 GRAV	670.6	-0.19
65027	169538.5	394647.4	670.85 GRAV	670.8	-0.05
65028	169537.2	394651.3	670.97 GRAV	670.63	-0.34
65029	169540.9	394640.6	670.72 GRAV	670.49	-0.23
65030	169542.1	394637.2	670.54 GRAV	670.36	-0.18
65031	169545.5	394637.3	670.46 GRAV	670.31	-0.15
65032	169544	394640.6	670.59 GRAV	670.44	-0.15
65033	169542.7	394643.7	670.7 GRAV	670.46	-0.24
65034	169541.3	394646.5	670.83 GRAV	670.6	-0.23
65035	169540.1	394650.1	670.86 GRAV	670.65	-0.21
65036	169542.9	394651	670.72 GRAV	670.55	-0.17
65037	169544.2	394647.6	670.75 GRAV	670.47	-0.28
65038	169545.6	394643.6	670.62 GRAV	670.36	-0.26
65039	169547.4	394639.7	670.5 GRAV	670.39	-0.11
65040	169548.6	394636.5	670.42 GRAV	670.27	-0.15
65041	169553	394638.5	670.3 GRAV	670.22	-0.08
65042	169551.7	394642.4	670.45 GRAV	670.29	-0.16
65043	169550.3	394647.1	670.5 GRAV	670.36	-0.14
65044	169549.4	394649.9	670.53 GRAV	670.36	-0.17
65045	169548.3	394653.6	670.58 GRAV	670.31	-0.27
65046	169550.8	394655.1	670.54 GRAV	670.36	-0.18
65047	169552.4	394651.1	670.5 GRAV	670.35	-0.15
65048	169553.6	394647.5	670.4 GRAV	670.34	-0.06

65049	169554.7	394644	670.42 GRAV	670.25	-0.17
65050	169555.9	394640.7	670.35 GRAV	670.23	-0.12
65051	169657	394337	668.81 MOWED GI	668.68	-0.13
65052	169657.4	394332.5	668.78 MOWED GI	668.7	-0.08
65053	169657.8	394328.3	668.87 MOWED GI	668.63	-0.24
65054	169658.4	394324.4	668.86 MOWED GI	668.78	-0.08
65055	169659.1	394319.5	668.8 MOWED GI	668.72	-0.08
65056	169662.9	394319.7	668.73 MOWED GI	668.72	-0.01
65057	169662.4	394323.3	668.81 MOWED GI	668.7	-0.11
65058	169661.9	394327.1	668.8 MOWED GI	668.67	-0.13
65059	169661.4	394330.4	668.77 MOWED GI	668.61	-0.16
65060	169660.9	394334	668.79 MOWED GI	668.69	-0.1
65061	169664.8	394334.7	668.77 MOWED GI	668.58	-0.19
65062	169664.8	394330.5	668.74 MOWED GI	668.59	-0.15
65063	169665.1	394326.3	668.8 MOWED GI	668.75	-0.05
65064	169665.4	394322.4	668.74 MOWED GI	668.73	-0.01
65065	169665.9	394318.5	668.75 MOWED GI	668.63	-0.12
65066	169668.5	394319.1	668.68 MOWED GI	668.64	-0.04
65067	169668.4	394322.5	668.66 MOWED GI	668.67	0.01
65068	169668.2	394325.7	668.77 MOWED GI	668.69	-0.08
65069	169668.1	394329.4	668.72 MOWED GI	668.63	-0.09
65070	169668.1	394332.8	668.76 MOWED GI	668.63	-0.13
65071	169672	394332.8	668.76 MOWED GI	668.64	-0.12
65072	169672.6	394328.9	668.74 MOWED GI	668.59	-0.15
65073	169672.7	394325.5	668.72 MOWED GI	668.63	-0.09
65074	169673.1	394321.7	668.74 MOWED GI	668.58	-0.16
65075	169673.5	394317.9	668.7 MOWED GI	668.73	0.03
65076	169765.8	394170.8	667.6 BRUSH/LOI	668.34	0.74
65077	169763.3	394173.1	667.7 BRUSH/LOI	668.08	0.38
65078	169760.3	394176.1	667.84 BRUSH/LOI	668.16	0.32
65079	169757.1	394178.6	667.76 BRUSH/LOI	668.18	0.42
65080	169754.9	394180.8	667.89 BRUSH/LOI	668.3	0.41
65081	169753	394179.2	667.81 BRUSH/LOI	668.37	0.56
65082	169754.9	394177.3	667.82 BRUSH/LOI	668.17	0.35
65083	169757.8	394174.4	667.74 BRUSH/LOI	668.05	0.31
65084	169759.8	394172.8	667.74 BRUSH/LOI	668.1	0.36
65085	169761.6	394170.4	667.66 BRUSH/LOI	668.14	0.48
65086	169760.2	394168	667.84 BRUSH/LOI	667.97	0.13
65087	169758.5	394169.9	667.94 BRUSH/LOI	668.09	0.15
65088	169757.1	394171.9	667.89 BRUSH/LOI	668.1	0.21
65089	169754.4	394174	667.6 BRUSH/LOI	668.01	0.41
65090	169752	394176.8	667.72 BRUSH/LOI	668.31	0.59
65091	169750	394175.6	667.64 BRUSH/LOI	668.32	0.68
65092	169751.7	394172.7	667.77 BRUSH/LOI	668.17	0.4
65093	169753.8	394170.3	667.81 BRUSH/LOI	668.11	0.3
65094	169756	394168	667.72 BRUSH/LOI	668.19	0.47
65095	169757.5	394166.3	667.82 BRUSH/LOI	668.12	0.3

65096	169755.1	394164.7	667.81	BRUSH/LO\	668.06	0.25
65097	169752.4	394167.7	667.93	BRUSH/LO\	667.99	0.06
65098	169749.6	394170.7	667.78	BRUSH/LO\	668.05	0.27
65099	169746.1	394172.5	667.91	BRUSH/LO\	668.02	0.11
65100	169744.6	394174.3	667.65	BRUSH/LO\	667.98	0.33
65101	169731.3	394704.2	668.44	TREE COVE	668.34	-0.1
65102	169730.7	394700.2	668.5	TREE COVE	668.35	-0.15
65103	169729.8	394694.8	668.7	TREE COVE	668.59	-0.11
65104	169729.6	394690.3	668.6	TREE COVE	668.47	-0.13
65105	169729.1	394686.4	668.58	TREE COVE	668.68	0.1
65106	169736.2	394685	668.61	TREE COVE	668.6	-0.01
65107	169734.5	394689.2	668.62	TREE COVE	668.57	-0.05
65108	169734.8	394693.2	668.53	TREE COVE	668.42	-0.11
65109	169734.9	394697.2	668.46	TREE COVE	668.32	-0.14
65110	169735.7	394701.4	668.35	TREE COVE	668.19	-0.16
65111	169739.9	394699.3	668.37	TREE COVE	668.12	-0.25
65112	169738.2	394695.4	668.32	TREE COVE	668.32	0
65113	169737.5	394691.1	668.56	TREE COVE	668.44	-0.12
65114	169736.5	394687.5	668.53	TREE COVE	668.65	0.12
65115	169736	394682.5	668.56	TREE COVE	668.54	-0.02
65116	169741	394681.1	668.41	TREE COVE	668.46	0.05
65117	169741.3	394684.4	668.42	TREE COVE	668.5	0.08
65118	169741.7	394688.3	668	TREE COVE	668.59	0.59
65119	169742.4	394692.6	668.22	TREE COVE	668.19	-0.03
65120	169742.9	394695.9	668.11	TREE COVE	668.23	0.12
65121	169746.1	394695.1	667.95	TREE COVE	667.92	-0.03
65122	169745.5	394691.5	667.96	TREE COVE	667.86	-0.1
65123	169744.9	394687.6	668.24	TREE COVE	668.38	0.14
65124	169743.8	394683.3	668.14	TREE COVE	668.35	0.21
65125	169742.6	394679.2	668.34	TREE COVE	668.36	0.02
65126	169982.6	394137	668.76	TALL GRAS	668.6	-0.16
65127	169978.7	394138.9	668.75	TALL GRAS	668.5	-0.25
65128	169974.6	394140.3	668.69	TALL GRAS	668.67	-0.02
65129	169971	394141.8	669.03	TALL GRAS	668.8	-0.23
65130	169968.7	394142.6	669.13	TALL GRAS	669.04	-0.09
65131	169970.1	394146.2	668.66	TALL GRAS	669.09	0.43
65132	169973.2	394144.9	668.75	TALL GRAS	668.89	0.14
65133	169976.4	394143.5	668.76	TALL GRAS	668.8	0.04
65134	169979.8	394142.4	668.83	TALL GRAS	668.6	-0.23
65135	169984.1	394141.2	668.72	TALL GRAS	668.74	0.02
65136	169984.1	394143.8	668.79	TALL GRAS	668.77	-0.02
65137	169981.1	394144.7	668.88	TALL GRAS	668.68	-0.2
65138	169977.9	394145.8	668.79	TALL GRAS	668.84	0.05
65139	169974.6	394146.7	668.77	TALL GRAS	668.96	0.19
65140	169970.9	394148	668.69	TALL GRAS	668.89	0.2
65141	169971.3	394151.1	668.77	TALL GRAS	668.98	0.21
65142	169974.5	394150.2	668.73	TALL GRAS	669.02	0.29

65143	169977.2	394149.2	668.75 TALL GRAS	669.12	0.37
65144	169980.6	394148.3	668.87 TALL GRAS	669.1	0.23
65145	169984.8	394147.2	668.78 TALL GRAS	668.77	-0.01
65146	169983.7	394151.1	668.9 TALL GRAS	669.1	0.2
65147	169980.2	394152	668.96 TALL GRAS	669.35	0.39
65148	169976.7	394152.7	668.87 TALL GRAS	669.26	0.39
65149	169972.7	394153.9	668.83 TALL GRAS	669.17	0.34
65150	169968.3	394155.3	668.81 TALL GRAS	669.12	0.31

AVERAGE	0.052
MINIMUM	-1.07
MAXIMUM	1.2
AVG MAGN	0.292
RMSE	0.379
STD DEVIAT	0.375

FIELD NOTES

Project FEMA ground survey notes

Contains point number and descriptions

Includes Control and Check Points left out of statistical analysis

9-12-11 Crawford Co. LiDAR checks

Jace
Vigter

Base: VRS

Rover: Trimble R8

- Checked PID "DHS5358" (NGS mon.)

Vertical ✓ Start (Pt. 1600)

Horizontal ✓

Site 3:

Tall Grass/Weeds: 1001 - 1025

Brush/Low Trees: 1026 - 1050

Mowed Grass: 1051 - 1075

Asphalt: 1076 - 1100

Concrete: 1101 - 1125

Tree Cover: 1126 - 1147

(NGS mon.)
- Checked PID "DHS5358" End (Pt. 1148) ✓

9-13-11 Crawford Co. LiDAR checks

Jace
Vigter 3

Base: VRS

Rover: Trimble R8

- Checked PID "DHS5167" (NGS mon.)

Vertical ✓

Horizontal ✓

Site 2:

Tree Cover: # 1151 - 1175

Asphalt: 1176 - 1200

Brush/Low Trees: 1201 - 1225

Tall Grass/Weeds: 1226 - 1250

Mowed Grass: 1251 - 1275

Gravel: 1276 - 1300

(NGS mon.)
- Checked PID "DHS5167" End (Pt. 1301) ✓

9-13-11 Crawford Co. LiDAR checks

Jace
Vegetation

9-14-11 Crawford Co. LiDAR checks

Jace
Vegetation

Base: VRS
Rover: Trimble R8

- Checked PID "ON1190" ✓ Start
- ✓ Vertical Calibration (ft. 1325)
- ✓ Horizontal

Site 1:

Mowed Grass: 1325 - 1350
Gravel: 1351 - 1375
Tall Grass/Weeds: 1376 - 1400
Brush/Low Trees: 1401 - 1425
Asphalt: 1426 - 1450
Concrete: 1451 - 1475
Tree Cover: 1476 - 1500

- Checked PID "ON1190" ✓ End (ft. 1501) ✓

Base: VRS
Rover: Trimble R8

- Checked PID "DH500" ✓ Start
- ✓ Vertical
- ✓ Horizontal

Site 4:

Asphalt: 1526 - 1550
Gravel: 1551 - 1575
Mowed Grass: 1576 - 1600
Brush/Low Trees: 1601 - 1625
Tall Grass/Weeds: 1626 - 1650
Tree Cover: 1651 - 1675

(miss mon.)
- Checked PID "DH500" ✓ End (ft. 1676) ✓

Adams County Ground Truthing
Control Pt. Setups

Location #7: *Checked into PID "DH5467" (Strong Prairie GPS)

*Base Setup @ PID "DM1263" (Oxford GPS)
- Checked into PID "DH5467" (Strong Prairie GPS)

*Base Setup @ PID "DH5482" (Strong Prairie GPS)
- Vertical within 0.05' ✓

Mowed Grass: Pts 1027-1050

Tall Grass/Weeds: Pts 1051-1077

Brush/Low trees: Pts 5000-5024

Tree Cover: Pts 5025-5047

Asphalt: Pts 1002-1026

Location 8:

*Base Setup @ PID "DH5482" (Strong Prairie GPS)
* Checked into PID "DH5467" (Strong Prairie GPS)

- Vertical within 0.05' ✓

Mowed Grass: Pts 1079-1103

Tall Grass/Weeds: Pts 1128-1153

Brush/Low trees: Pts 1154-1175

Tree Cover: Pts 5048-5072

Asphalt: Pts 1104-1127

Trace Vegetation

Location #1:

*Base setup @ PID "DH5459"

* Checked into PID "DH5650" (Kane GPS)
- Vertical within 0.05' ✓

Mowed Grass: Pts 1201-1225

Tall Grass/Weeds: Pts 1251-1275

Brush/Low trees: Pts 5073-5094

Tree Cover: Pts 1226-1250

Location #9:

*Base setup @ PID "DM1263" (Oxford GPS)
* Checked into PID "DH5493" (Jackson W GPS)

- Vertical within 0.05' ✓

Concrete: Pts 1284-1304

Tall Grass/Weeds: Pts 1305-1323

Mowed Grass: Pts 5095-5118

Tree Cover: Pts 5120-5144

Brush/Low trees: Pts 5145-5170

Adams County Ground-Truthing
CP setups continued

Location 10:

*Base Setup @ "PID" D45494 (Plainville GPS)
*Checked into PID "D45493" (Jacksonville GPS)

-Vertical within 0.05 ✓

Mowed Grass: Pts 1332-1356

Tree Cover: Pts 5171-5195

Asphalt: Pts 5196-5220

Tall Grass/weeds: Pts 5221-5245

Brush/low Trees: Pts 5246-5270

11-02-2010

Crawford County Corridor
Ground-Truthing / Control Pt. Setups

Jace
VegetLocation 4:

- * Base @ PID "PH5065" (Kingsport GPS)
- * Checked into PID "PA5059" (Franklin E GPS)
- Vertical within 0.07' ✓
- ✓ Asphalt: Pts 62, 126-62, 145
- ✓ Mowed Grass: Pts 62, 100-62, 125
- ✓ Brush/Low Trees: 62, 146-62, 170
- ✓ Tall Grass/Weeds: 62, 171-62, 195
- ~~1422-2010~~ ✓ Tree Cover: 62, 200-62, 224

Location 11-03-2010Location 3:

- * Base @ PID "D45356" (Utica C GPS)
- * Checked into PID "D45358" (Utica N GPS)
- Vertical within 0.05' ✓
- ✓ Tree Cover: Pts 63, 001-63, 025
- ✓ Mowed Grass/Weeds: 63, 026-63, 050
- ✓ Brush/Low Trees: 63, 051-63, 075
- ✓ Tall Grass/Weeds: 63, 076-63, 100
- ✓ Mowed Grass: 63, 100-63, 125
- ✓ Brush/Low Trees: 63, 126-63, 150
- ✓ Gravel: 63, 151-63, 175

11-03-2010

Location 2:

- * Base @ PID "DH 5355" (Utica E GPS)
- * Checked into PID "DH 5349" (Honey W GPS)
- Too far to check in from PID "D45355"
- so I set CP 102 & set base over it to check into PID "DH 5349"
- Vertical within 0.05' ✓

- ✓ Mowed Grass: 63, 201-63, 225
- ✓ Concrete: 63, 226-63, 250
- ✓ Tree Cover: 64, 001-64, 025
- ✓ Brush/Low Trees: 64, 026-64, 050
- ✓ Tall Grass/Weeds: 64, 051-64, 075

11-4-2010 Crawford County Corridor Ground-Traction Control Pt. Setups

Location D:

- * Base Setup @ PID "D45057" (Eastman E GPS)
- * Checked into PID "D45348" (Seneca E GPS)
- Vertical within 0.14 ✓

- ✓ Asphalt: 65,001 - 65,025
- ✓ Gravel: 65,026 - 65,050
- ✓ Mowed Grass: 65,051 - 65,075
- ✓ Brush/Low Trees: 65,076 - 65,100
- ✓ Tree Cover: 65,101 - 65,125
- ✓ Tall grass/Weeds: 65,126 - 65,150

Location D:

- * Base setup @ PID "D45338" (Wauzeka E GPS)
- * Checked into PID "D45340" (Wauzeka E GPS)
- Vertical within 0.05 ✓

- ✓ Brush/Low Trees: 65,201 - 65,225
- ✓ Gravel: 65,301 - 65,325
- ✓ Asphalt: 65,276 - 65,300
- ✓ Mowed Grass: 65,326 - 65,350
- ✓ Tree Cover: 65,226 - 65,246
- ✓ Tall Grass/Weeds: 65,251 - 65,275