

ATTENTION

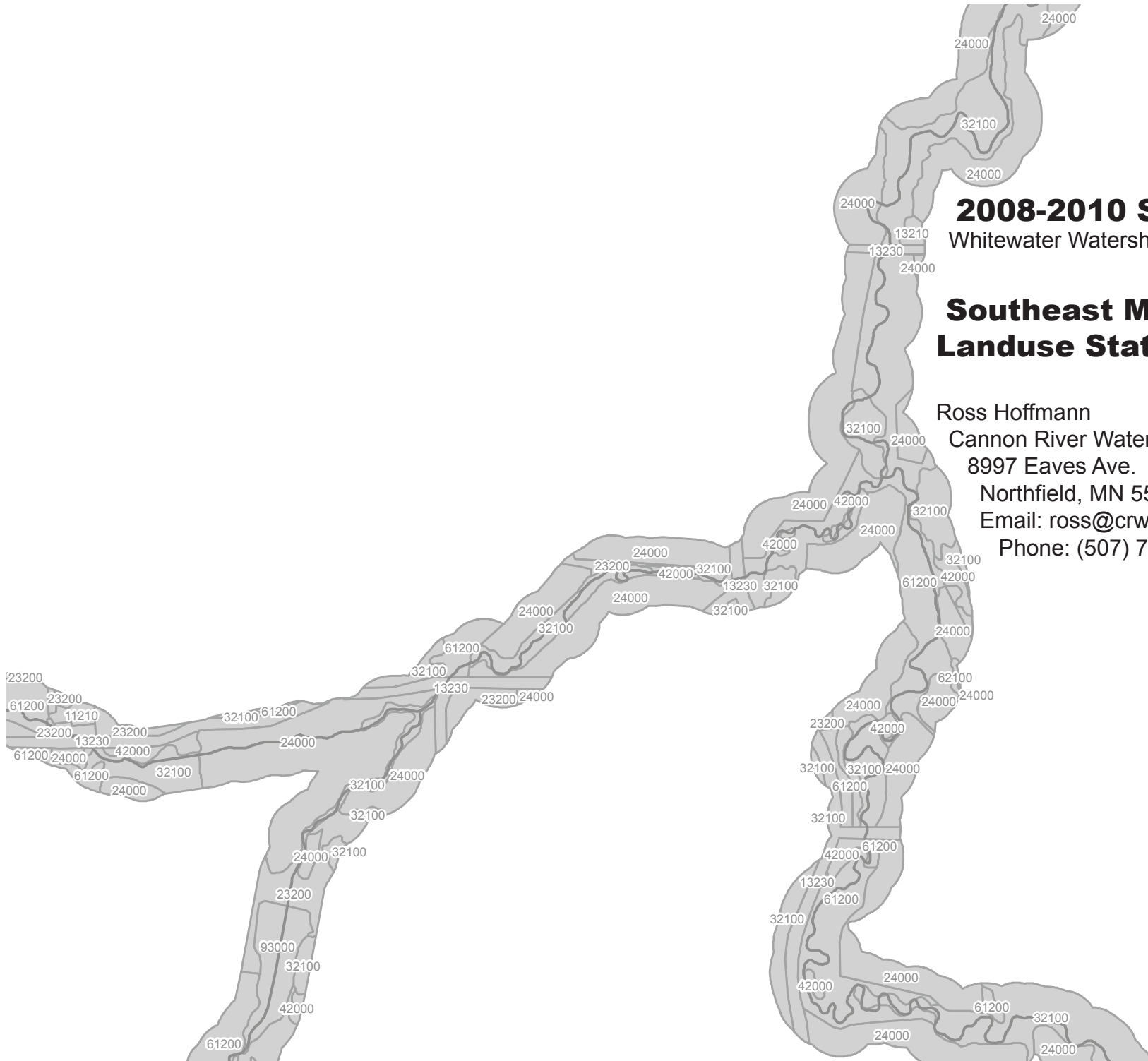
If using this information to identify possible areas out of compliance with local and/or state buffer rules, be aware that:

The 50 foot buffer statistics are computed from the stream centerline. These statistics do not take into account that on some streams, drainage ditches in particular, a buffer may be measured from the bank edge, not from the stream centerline. When measuring the buffer from the bank edge, this will yield a larger area that may be potentially out of compliance with local and/or state buffer rules (see figure).

These statistics for the 50 foot buffer area provide a broad regional overview and do not take into consideration local factors such as the above. Using GIS, these local factors can be adjusted for by using the 300 foot shoreland landuse data, digitizing the boundary where the buffer should be measured from, buffering the desired distance from that boundary, and clipping the 300 foot shoreland landuse data using this new buffer area. This will yield more accurate statistics in specific areas such as, for example, drainage ditches.

This data is provided free of charge under the Shoreland Mapping Program. Data is produced by the Cannon River Watershed Partnership (CRWP) as contracted by the Whitewater Joint Powers Board and funded by the Minnesota Environment and Natural Resources Trust Fund.

Data was digitized from 2008 FSA NAIP one-meter aerial photography and coded using a subset of the Minnesota Land Cover Classification System. While every effort was made to ensure the data correctly reflects land use, CRWP cannot guarantee 100% accuracy. Data is meant to reflect regional, very basic land use information (eg. forest, grassland, cropland, etc.) within 300 feet of DNR-protected river and stream centerlines for a given county. Data has not been verified in the field. Cannon River Watershed Partnership assumes no responsibility for how data is used or its end products.



2008-2010 Shoreland Mapping Project

Whitewater Watershed Project/Cannon River Watershed Partnership

Southeast Minnesota Public Water Shoreland Landuse Statistics - 50ft. Shoreland Area

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**ENVIRONMENT
AND NATURAL RESOURCES
TRUST FUND**

CRWPGIS
Cannon River Watershed Partnership

Project Detail:

Counties mapped include Dodge, Fillmore, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona.

Only public waterways as identified in the MN Department of Natural Resources' "24k Streams" GIS shapefile were mapped.

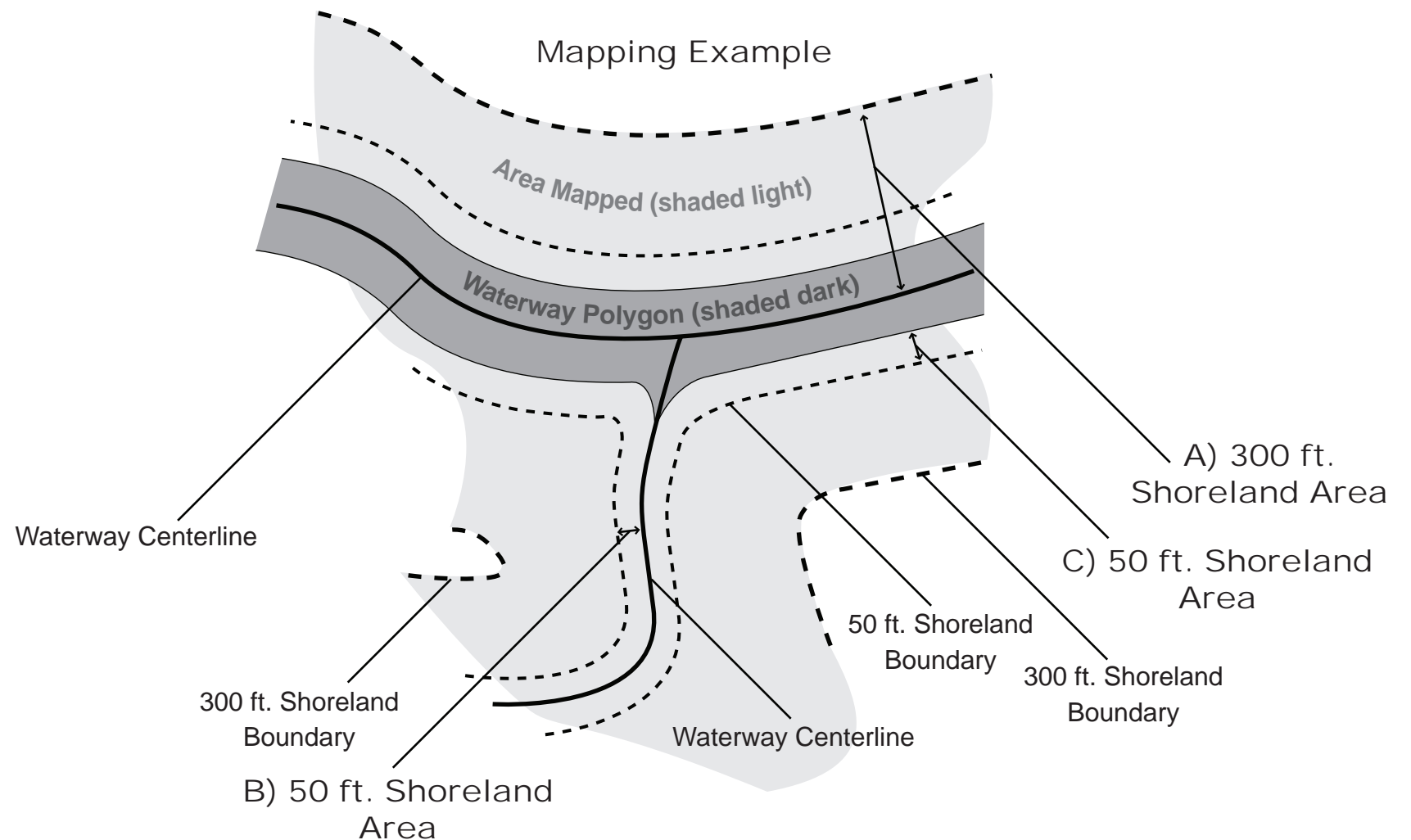
Landuse was primarily interpreted, mapped, and coded at a scale of 1:5,000 from 2008 FSA NAIP 1-meter resolution aerial photography for all counties.

The 300 foot shoreland area is measured from the waterway centerline outward (perpendicular to flow), for a maximum diameter of 600 feet across the waterway (see **A** to right).

The 50 foot shoreland area is measured from the waterway centerline outward (perpendicular to flow) (see **B** to right), however, where a waterway is large enough to be mapped as a polygon, landuse within the 50 foot shoreland area is measured from the polygon edge outward (perpendicular to the shoreline) (see **C** to right).

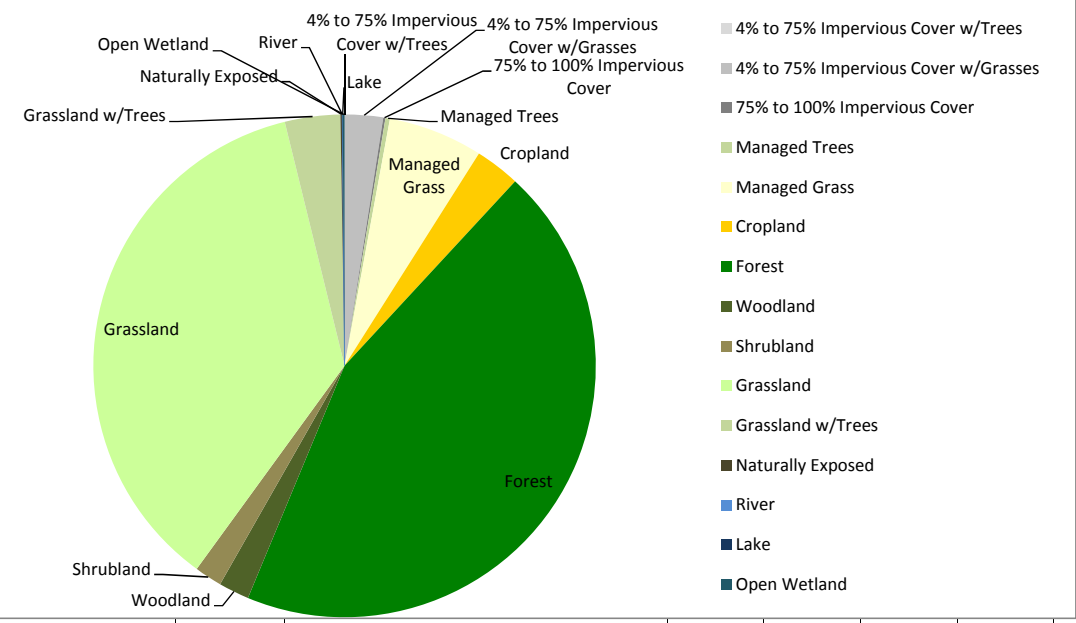
While every effort was made to ensure the data correctly reflects landuse, CRWP cannot guarantee 100% accuracy; data is meant to reflect very basic landuse information (eg. forest, grassland, cropland, etc.)

Landuse codes are most accurate to level two only; landuse coding from level three and beyond has a high degree of interpretation (see example to right).



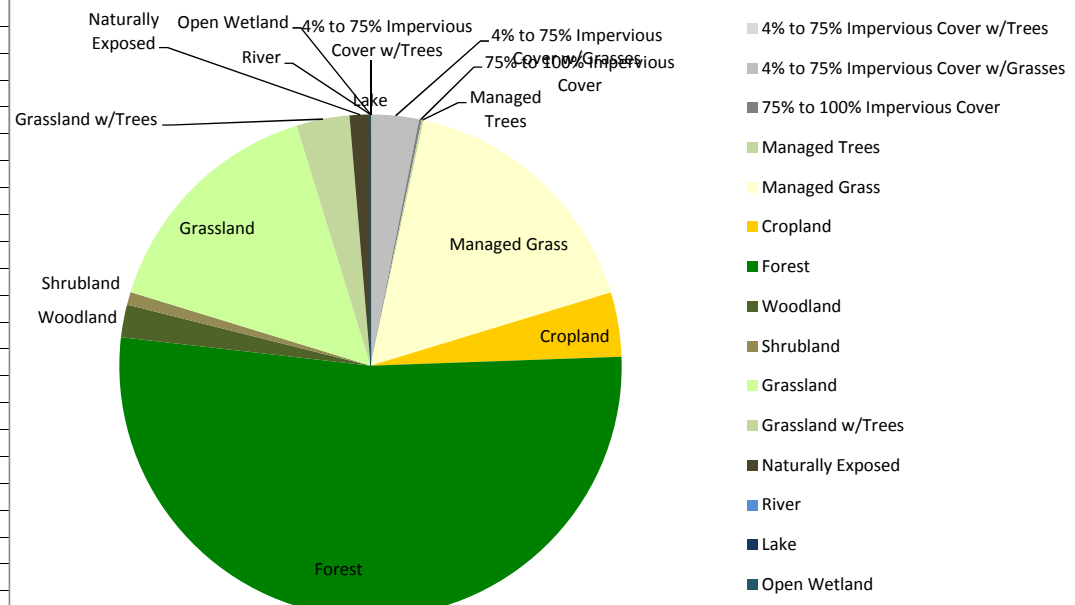
High Accuracy	[Level 1: <u>10000</u> - Impervious Surfaces
		Level 2: <u>11000</u> - Impervious Surfaces w/Tree Cover
Low Accuracy/ High Interpretation	[Level 3: <u>11200</u> - Impervious Surfaces w/Deciduous Tree Cover
		Level 4: <u>11210</u> - 4%-10% Impervious Cover w/Deciduous Tree Cover
		Level 5: <u>11213</u> - 4%-10% Impervious Cover w/Maple-Basswood Deciduous Tree Cover

MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	3	1036.16	0.26	0.01%	4% to 10% Impervious Cover w/Trees	11000	0.01%	4% to 75% Impervious Cover w/Trees						
11220	3	302.42	0.07	0.00%	11% to 25% Impervious Cover w/Trees	13000	2.45%	4% to 75% Impervious Cover w/Grasses						
11230	3	145.69	0.04	0.00%	26% to 50% Impervious Cover w/Trees	14000	0.15%	75% to 100% Impervious Cover						
13110	5	3532.30	0.87	0.03%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	21000	0.30%	Managed Trees						
13120	10	2355.88	0.58	0.02%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	23000	6.07%	Managed Grass						
13130	12	9466.06	2.34	0.08%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	24000	2.89%	Cropland						
13140	1	579.12	0.14	0.00%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	32000	44.41%	Forest						
13210	6	1128.50	0.28	0.01%	4% to 10% Impervious Cover w/Grasses	42000	1.96%	Woodland						
13220	22	9445.30	2.33	0.08%	11% to 25% Impervious Cover w/Grasses	52000	1.78%	Shrubland						
13230	218	272179.82	67.26	2.23%	26% to 50% Impervious Cover w/Grasses	61000	36.15%	Grassland						
13240	1	532.29	0.13	0.00%	51% to 75% Impervious Cover w/Grasses	62000	3.58%	Grassland w/Trees						
14110	5	1414.09	0.35	0.01%	76% to 90% Impervious Cover w/Buildings and Pavement	80000	0.11%	Naturally Exposed						
14120	36	15761.71	3.89	0.13%	91% to 100% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14210	1	21.16	0.01	0.00%	0% to 10% Impervious Cover w/Exposed Earth	92000	0.02%	Lake						
14220	1	666.07	0.16	0.01%	11% to 25% Impervious Cover w/Exposed Earth	93000	0.12%	Open Wetland						
21000	43	36464.90	9.01	0.30%	Planted, Maintained, or Cultivated Trees									
23200	261	741225.31	183.16	6.07%	Planted and Maintained Grasses									
24000	312	353623.39	87.38	2.89%	Cropland									
32100	534	5425211.94	1340.60	44.41%	Upland Deciduous Forest									
32200	1	124.97	0.03	0.00%	Wetland Forest									
42000	129	239492.46	59.18	1.96%	Woodland									
42200	1	90.37	0.02	0.00%	Wetland Woodland									
52100	167	216194.83	53.42	1.77%	Upland Deciduous Shrublands									
52300	2	797.01	0.20	0.01%	Wetland Deciduous Shrublands									
61200	497	4322769.39	1068.18	35.39%	Upland Grassland									
61300	6	86312.79	21.33	0.71%	Temporarily Flooded Grasslands									
61500	2	917.33	0.23	0.01%	Seasonally Flooded Grasslands									
61600	1	1912.67	0.47	0.02%	Semipermanently Flooded Grasslands									
61800	3	4360.36	1.08	0.04%	Permanently Flooded Grasslands									
62100	171	436947.09	107.97	3.58%	Grassland w/Sparse Trees									
83210	16	13506.60	3.34	0.11%	Sandy and Gravel Shores									
92000	1	2652.54	0.66	0.02%	Lake									
93000	18	14834.81	3.67	0.12%	Open Wetland									
TOTAL	2492	12216005.32	3018.64	100.00%										

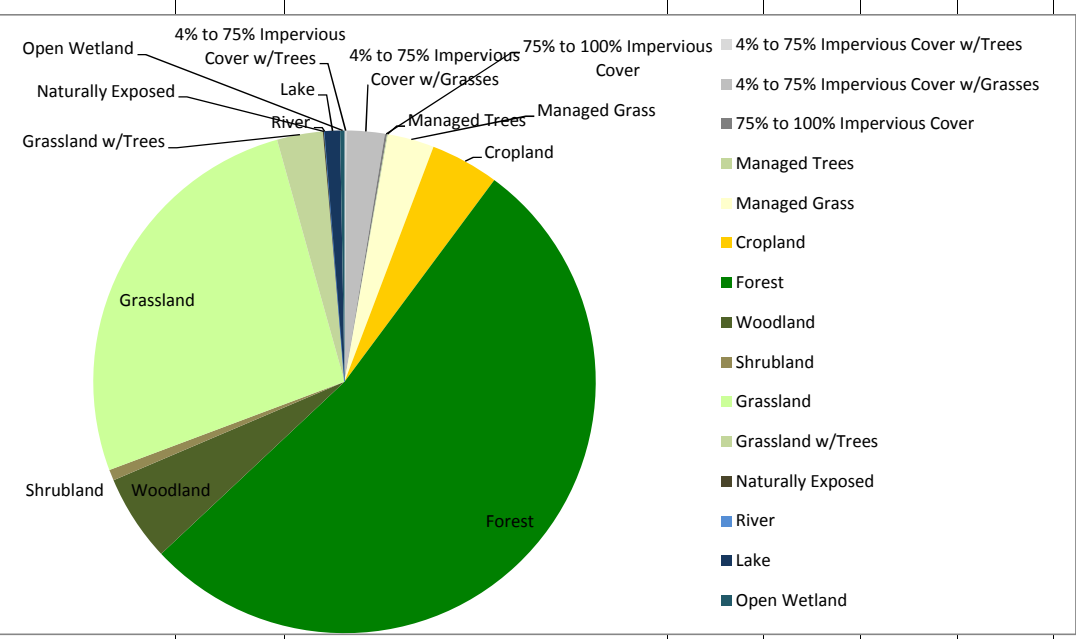


Fillmore

MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	14	16146.88	3.99	0.05%	4% to 10% Impervious Cover w/Trees	11000	0.05%	4% to 75% Impervious Cover w/Trees						
11220	3	1954.61	0.48	0.01%	11% to 25% Impervious Cover w/Trees	13000	3.06%	4% to 75% Impervious Cover w/Grasses						
11230	1	424.07	0.10	0.00%	26% to 50% Impervious Cover w/Trees	14000	0.16%	75% to 100% Impervious Cover						
13110	11	3517.05	0.87	0.01%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	21000	0.12%	Managed Trees						
13120	17	5115.54	1.26	0.02%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	23000	16.89%	Managed Grass						
13130	5	1672.59	0.41	0.01%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	24000	4.14%	Cropland						
13140	1	1719.52	0.42	0.01%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	32000	52.40%	Forest						
13210	21	8597.25	2.12	0.03%	4% to 10% Impervious Cover w/Grasses	42000	2.09%	Woodland						
13220	47	18046.79	4.46	0.06%	11% to 25% Impervious Cover w/Grasses	52000	0.83%	Shrubland						
13230	469	934605.97	230.95	2.93%	26% to 50% Impervious Cover w/Grasses	61000	15.51%	Grassland						
13240	7	2602.77	0.64	0.01%	51% to 75% Impervious Cover w/Grasses	62000	3.41%	Grassland w/Trees						
14110	4	1864.02	0.46	0.01%	76% to 90% Impervious Cover w/Buildings and Pavement	80000	1.33%	Naturally Exposed						
14120	61	29159.07	7.21	0.09%	91% to 100% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14210	17	20185.24	4.99	0.06%	0% to 10% Impervious Cover w/Exposed Earth	92000	0.00%	Lake						
21000	21	36768.39	9.09	0.12%	Planted, Maintained, or Cultivated Trees	93000	0.01%	Open Wetland						
23200	964	5392777.55	1332.58	16.89%	Planted and Maintained Grasses									
24000	716	1320612.84	326.33	4.14%	Cropland									
32100	1625	16729404.29	4133.93	52.40%	Upland Deciduous Forest									
42000	260	664614.78	164.23	2.08%	Woodland									
42200	3	3567.21	0.88	0.01%	Wetland Woodland									
52100	141	262064.20	64.76	0.82%	Upland Deciduous Shrublands									
52300	4	2593.86	0.64	0.01%	Wetland Deciduous Shrublands									
61200	956	4478629.37	1106.69	14.03%	Upland Grassland									
61300	286	463372.36	114.50	1.45%	Temporarily Flooded Grasslands									
61800	12	10263.72	2.54	0.03%	Permanently Flooded Grasslands									
62100	383	983543.02	243.04	3.08%	Grassland w/Sparse Trees									
62300	45	104392.28	25.80	0.33%	Temporarily Flooded Grassland w/Sparse Trees									
83210	278	423099.42	104.55	1.33%	Sandy and Gravel Shores									
93000	4	2526.01	0.62	0.01%	Open Wetland									
TOTAL	6376	31923840.66	7888.55	100.00%										

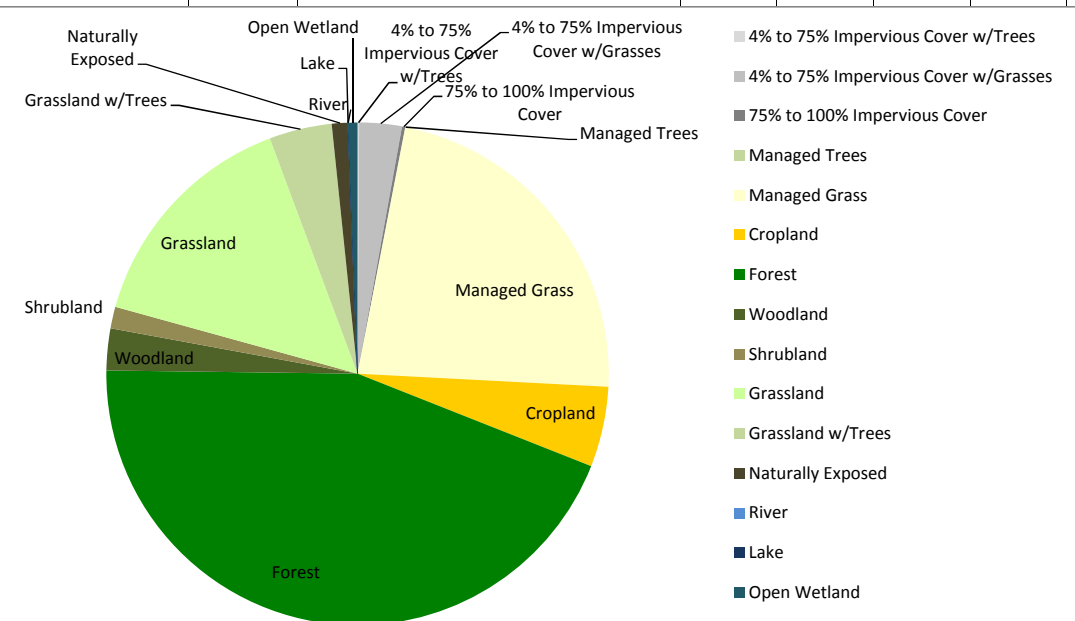


MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	14	15215.16	3.76	0.06%	4% to 10% Impervious Cover w/Trees	11000	0.11%	4% to 75% Impervious Cover w/Trees						
11220	18	10221.98	2.53	0.04%	11% to 25% Impervious Cover w/Trees	13000	2.46%	4% to 75% Impervious Cover w/Grasses						
11230	4	623.81	0.15	0.00%	26% to 50% Impervious Cover w/Trees	14000	0.13%	75% to 100% Impervious Cover						
11240	1	2896.11	0.72	0.01%	51% to 75% Impervious Cover w/Trees	21000	0.07%	Managed Trees						
13110	19	7218.55	1.78	0.03%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	23000	2.99%	Managed Grass						
13120	25	9967.80	2.46	0.04%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	24000	4.40%	Cropland						
13130	7	2347.15	0.58	0.01%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	32000	52.85%	Forest						
13140	2	3213.99	0.79	0.01%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	42000	5.57%	Woodland						
13210	14	4884.42	1.21	0.02%	4% to 10% Impervious Cover w/Grasses	52000	0.70%	Shrubland						
13220	36	18484.61	4.57	0.07%	11% to 25% Impervious Cover w/Grasses	61000	26.38%	Grassland						
13230	375	578531.07	142.96	2.28%	26% to 50% Impervious Cover w/Grasses	62000	2.95%	Grassland w/Trees						
13240	6	1600.29	0.40	0.01%	51% to 75% Impervious Cover w/Grasses	80000	0.11%	Naturally Exposed						
14110	5	3799.82	0.94	0.01%	76% to 90% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14120	44	29330.39	7.25	0.12%	91% to 100% Impervious Cover w/Buildings and Pavement	92000	1.00%	Lake						
14210	2	104.38	0.03	0.00%	0% to 10% Impervious Cover w/Exposed Earth	93000	0.28%	Open Wetland						
21000	17	18051.63	4.46	0.07%	Planted, Maintained, or Cultivated Trees									
23200	345	760059.16	187.81	2.99%	Planted and Maintained Grasses									
24000	802	1117625.48	276.17	4.40%	Cropland									
32100	768	13430885.77	3318.84	52.82%	Upland Deciduous Forest									
32200	6	6835.94	1.69	0.03%	Wetland Forest									
42000	354	1278283.21	315.87	5.03%	Woodland									
42200	10	138983.52	34.34	0.55%	Wetland Woodland									
52100	92	178141.00	44.02	0.70%	Upland Deciduous Shrublands									
52300	1	164.97	0.04	0.00%	Wetland Deciduous Shrublands									
61200	964	6275122.06	1550.62	24.68%	Upland Grassland									
61300	45	340319.88	84.09	1.34%	Temporarily Flooded Grasslands									
61400	6	15986.06	3.95	0.06%	Saturated Grasslands									
61600	8	40352.93	9.97	0.16%	Semipermanently Flooded Grasslands									
61700	4	20297.47	5.02	0.08%	Intermittently Exposed Grassland									
61800	6	16846.82	4.16	0.07%	Permanently Flooded Grasslands									
62100	213	648190.49	160.17	2.55%	Grassland w/Sparse Trees									
62300	11	100761.25	24.90	0.40%	Temporarily Flooded Grassland w/Sparse Trees									
83210	22	28363.73	7.01	0.11%	Sandy and Gravel Shores									
92000	3	253152.77	62.56	1.00%	Lake									
93000	8	70193.64	17.35	0.28%	Open Wetland									
TOTAL	4257	25427057.31	6283.16	100.00%										

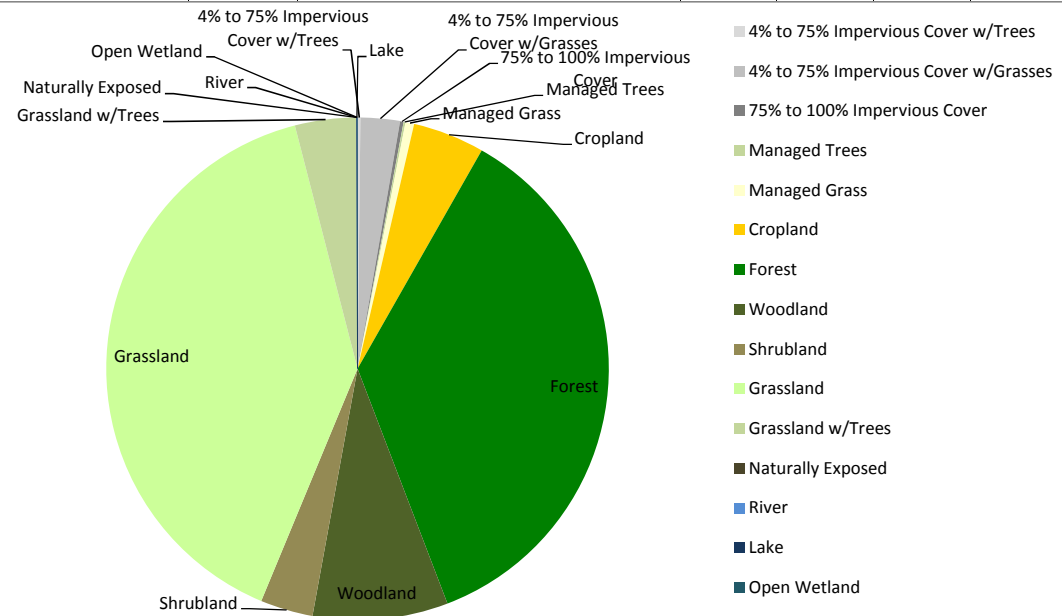


Houston

MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	6	14797.10	3.66	0.09%	4% to 10% Impervious Cover w/Trees	11000	0.10%	4% to 75% Impervious Cover w/Trees						
11220	2	275.47	0.07	0.00%	11% to 25% Impervious Cover w/Trees	13000	2.73%	4% to 75% Impervious Cover w/Grasses						
13110	8	6370.59	1.57	0.04%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	14000	0.20%	75% to 100% Impervious Cover						
13120	15	9058.82	2.24	0.06%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	21000	0.04%	Managed Trees						
13140	1	669.10	0.17	0.00%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	23000	22.76%	Managed Grass						
13210	25	16208.19	4.01	0.10%	4% to 10% Impervious Cover w/Grasses	24000	5.16%	Cropland						
13220	46	31259.63	7.72	0.20%	11% to 25% Impervious Cover w/Grasses	32000	44.22%	Forest						
13230	234	365916.02	90.42	2.32%	26% to 50% Impervious Cover w/Grasses	42000	2.70%	Woodland						
13240	2	1269.81	0.31	0.01%	51% to 75% Impervious Cover w/Grasses	52000	1.40%	Shrubland						
14120	45	23145.37	5.72	0.15%	91% to 100% Impervious Cover w/Buildings and Pavement	61000	15.02%	Grassland						
14210	9	8863.15	2.19	0.06%	0% to 10% Impervious Cover w/Exposed Earth	62000	4.05%	Grassland w/Trees						
21000	12	5992.12	1.48	0.04%	Planted, Maintained, or Cultivated Trees	80000	1.02%	Naturally Exposed						
23200	541	3589664.53	887.03	22.76%	Planted and Maintained Grasses	91000	0.00%	River						
24000	381	813005.06	200.90	5.16%	Cropland	92000	0.00%	Lake						
32100	1010	6813355.41	1683.62	43.21%	Upland Deciduous Forest	93000	0.61%	Open Wetland						
32200	18	159804.50	39.49	1.01%	Wetland Forest									
42000	184	391786.19	96.81	2.48%	Woodland									
42200	9	33230.47	8.21	0.21%	Wetland Woodland									
52100	112	211603.85	52.29	1.34%	Upland Deciduous Shrublands									
52300	8	8830.12	2.18	0.06%	Wetland Deciduous Shrublands									
61200	417	1883077.18	465.32	11.94%	Upland Grassland									
61300	71	189489.84	46.82	1.20%	Temporarily Flooded Grasslands									
61400	12	140909.61	34.82	0.89%	Saturated Grasslands									
61500	14	44003.90	10.87	0.28%	Seasonally Flooded Grasslands									
61600	5	5309.53	1.31	0.03%	Semipermanently Flooded Grasslands									
61700	6	81460.60	20.13	0.52%	Intermittently Exposed Grassland									
61800	8	24616.89	6.08	0.16%	Permanently Flooded Grasslands									
62100	222	563780.45	139.31	3.58%	Grassland w/Sparse Trees									
62300	25	74113.99	18.31	0.47%	Temporarily Flooded Grassland w/Sparse Trees									
81100	2	3377.15	0.83	0.02%	Cliffs									
83210	82	158154.13	39.08	1.00%	Sandy and Gravel Shores									
92000	1	37.63	0.01	0.00%	Lake									
93000	18	96155.74	23.76	0.61%	Open Wetland									
TOTAL	3551	15769592.16	3896.75	100.00%										

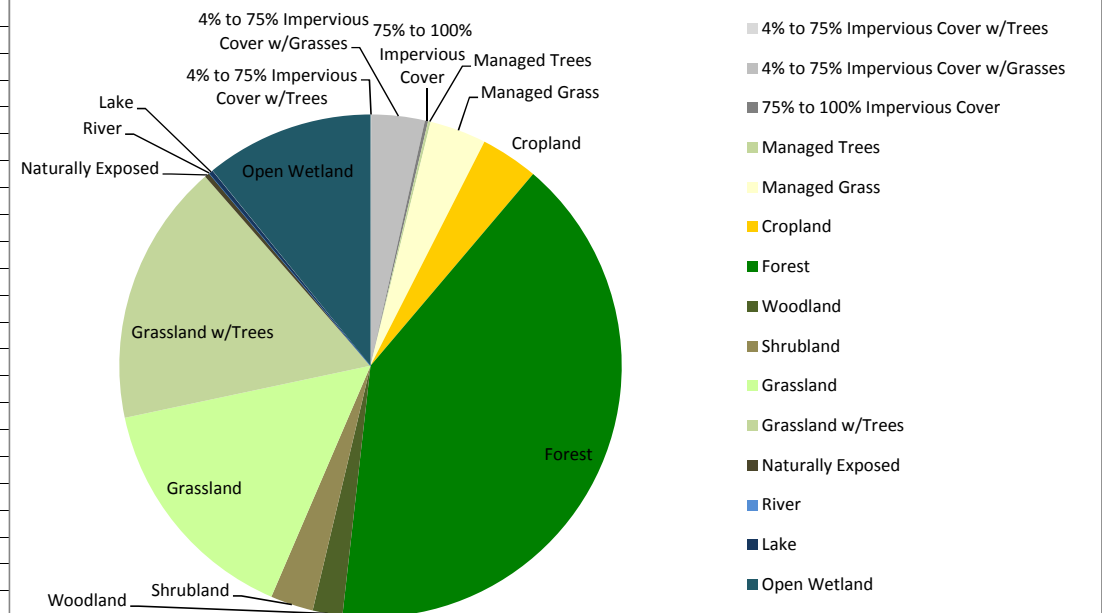


MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	14	4391.22	1.09	0.02%	4% to 10% Impervious Cover w/Trees	11000	0.19%	4% to 75% Impervious Cover w/Trees						
11220	17	13525.36	3.34	0.06%	11% to 25% Impervious Cover w/Trees	13000	2.51%	4% to 75% Impervious Cover w/Grasses						
11230	18	22325.25	5.52	0.11%	26% to 50% Impervious Cover w/Trees	14000	0.24%	75% to 100% Impervious Cover						
11240	1	12.21	0.00	0.00%	51% to 75% Impervious Cover w/Trees	21000	0.12%	Managed Trees						
13110	14	9091.92	2.25	0.04%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	23000	0.55%	Managed Grass						
13120	27	15884.67	3.93	0.08%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	24000	4.61%	Cropland						
13130	13	9311.49	2.30	0.04%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	32000	35.95%	Forest						
13140	3	4643.90	1.15	0.02%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	42000	8.69%	Woodland						
13210	15	12032.02	2.97	0.06%	4% to 10% Impervious Cover w/Grasses	52000	3.39%	Shrubland						
13220	26	37298.41	9.22	0.18%	11% to 25% Impervious Cover w/Grasses	61000	39.72%	Grassland						
13230	369	433438.83	107.11	2.08%	26% to 50% Impervious Cover w/Grasses	62000	3.96%	Grassland w/Trees						
13240	4	2108.11	0.52	0.01%	51% to 75% Impervious Cover w/Grasses	80000	0.01%	Naturally Exposed						
14110	9	8638.10	2.13	0.04%	76% to 90% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14120	37	33800.07	8.35	0.16%	91% to 100% Impervious Cover w/Buildings and Pavement	92000	0.00%	Lake						
14210	12	7679.35	1.90	0.04%	0% to 10% Impervious Cover w/Exposed Earth	93000	0.05%	Open Wetland						
21000	22	24412.32	6.03	0.12%	Planted, Maintained, or Cultivated Trees									
23200	132	115337.63	28.50	0.55%	Planted and Maintained Grasses									
24000	676	961644.99	237.63	4.61%	Cropland									
32100	480	5742487.59	1419.00	27.52%	Upland Deciduous Forest									
32200	125	1760228.83	434.96	8.44%	Wetland Forest									
42000	222	1399112.04	345.73	6.70%	Woodland									
42200	56	414446.56	102.41	1.99%	Wetland Woodland									
52100	266	661821.80	163.54	3.17%	Upland Deciduous Shrublands									
52300	21	46020.10	11.37	0.22%	Wetland Deciduous Shrublands									
61200	746	7234658.63	1787.72	34.67%	Upland Grassland									
61300	154	1015041.35	250.82	4.86%	Temporarily Flooded Grasslands									
61400	1	2333.69	0.58	0.01%	Saturated Grasslands									
61600	7	3732.97	0.92	0.02%	Semipermanently Flooded Grasslands									
61700	24	31122.68	7.69	0.15%	Intermittently Exposed Grassland									
61800	5	1830.20	0.45	0.01%	Permanently Flooded Grasslands									
62100	128	761882.49	188.27	3.65%	Grassland w/Sparse Trees									
62300	15	64411.21	15.92	0.31%	Temporarily Flooded Grassland w/Sparse Trees									
83210	2	2413.22	0.60	0.01%	Sandy and Gravel Shores									
93000	8	10289.36	2.54	0.05%	Open Wetland									
TOTAL	3669	20867408.54	5156.45	100.00%										

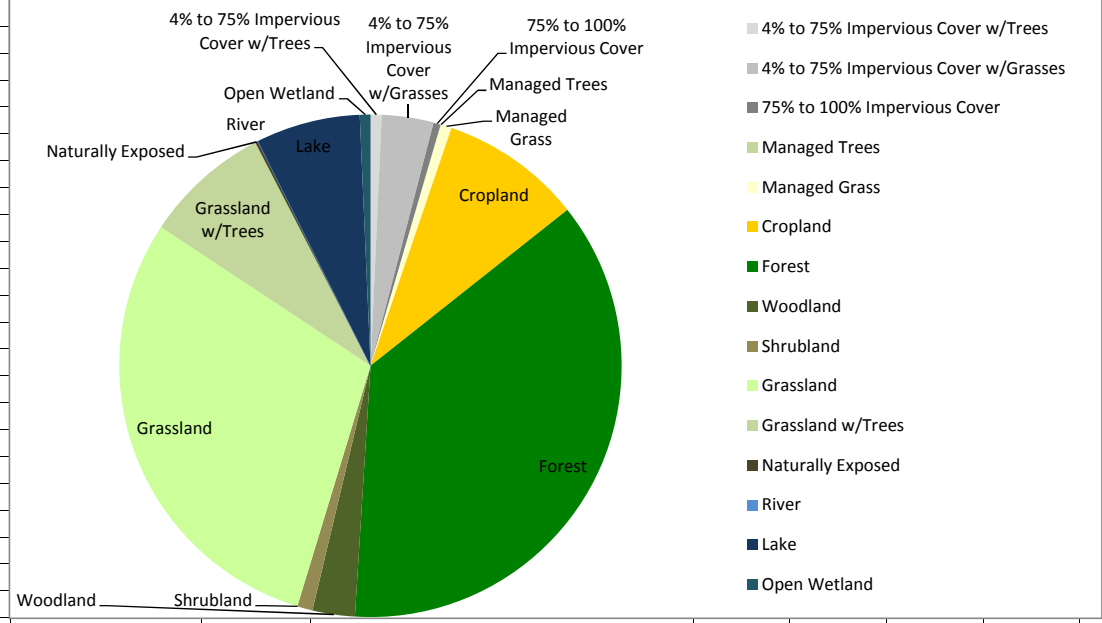


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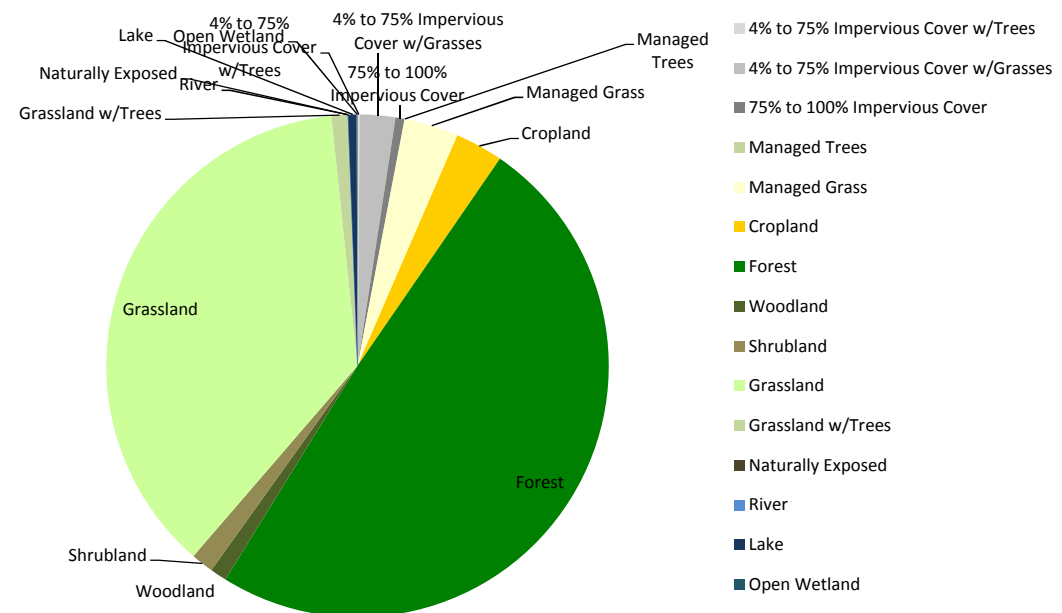
MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	2	360.39	0.09	0.00%	4% to 10% Impervious Cover w/Trees	11000	0.04%	4% to 75% Impervious Cover w/Trees						
11230	2	7728.37	1.91	0.03%	26% to 50% Impervious Cover w/Trees	13000	3.44%	4% to 75% Impervious Cover w/Grasses						
11240	1	13.55	0.00	0.00%	51% to 75% Impervious Cover w/Trees	14000	0.20%	75% to 100% Impervious Cover						
13110	59	57020.08	14.09	0.26%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	21000	0.16%	Managed Trees						
13120	117	219004.55	54.12	0.98%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	23000	3.64%	Managed Grass						
13130	13	9118.66	2.25	0.04%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	24000	3.70%	Cropland						
13140	8	10601.42	2.62	0.05%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	32000	40.60%	Forest						
13210	16	11158.86	2.76	0.05%	4% to 10% Impervious Cover w/Grasses	42000	1.91%	Woodland						
13220	18	42503.16	10.50	0.19%	11% to 25% Impervious Cover w/Grasses	52000	2.77%	Shrubland						
13230	277	419318.58	103.62	1.88%	26% to 50% Impervious Cover w/Grasses	61000	15.21%	Grassland						
14110	6	3734.48	0.92	0.02%	76% to 90% Impervious Cover w/Buildings and Pavement	62000	16.89%	Grassland w/Trees						
14120	12	11630.36	2.87	0.05%	91% to 100% Impervious Cover w/Buildings and Pavement	80000	0.34%	Naturally Exposed						
14210	12	16843.09	4.16	0.08%	0% to 10% Impervious Cover w/Exposed Earth	91000	0.00%	River						
14220	1	763.75	0.19	0.00%	11% to 25% Impervious Cover w/Exposed Earth	92000	0.25%	Lake						
14230	5	12490.53	3.09	0.06%	26% to 50% Impervious Cover w/Exposed Earth	93000	10.84%	Open Wetland						
21000	23	36090.90	8.92	0.16%	Planted, Maintained, or Cultivated Trees									
23200	178	813312.53	200.97	3.64%	Planted and Maintained Grasses									
24000	529	825506.03	203.99	3.70%	Cropland									
32100	883	7421147.75	1833.81	33.25%	Upland Deciduous Forest									
32200	138	1638848.41	404.97	7.34%	Wetland Forest									
42000	77	414890.41	102.52	1.86%	Woodland									
42200	6	10602.30	2.62	0.05%	Wetland Woodland									
52100	119	516028.62	127.51	2.31%	Upland Deciduous Shrublands									
52300	26	102885.46	25.42	0.46%	Wetland Deciduous Shrublands									
61200	441	2659910.08	657.28	11.92%	Upland Grassland									
61300	38	250373.54	61.87	1.12%	Temporarily Flooded Grasslands									
61400	45	348723.66	86.17	1.56%	Saturated Grasslands									
61500	20	129309.47	31.95	0.58%	Seasonally Flooded Grasslands									
61600	3	1244.93	0.31	0.01%	Semipermanently Flooded Grasslands									
61800	8	5286.85	1.31	0.02%	Permanently Flooded Grasslands									
62100	410	3688106.33	911.35	16.53%	Grassland w/Sparse Trees									
62300	7	80558.79	19.91	0.36%	Temporarily Flooded Grassland w/Sparse Trees									
81100	17	76025.73	18.79	0.34%	Cliffs									
83210	2	128.42	0.03	0.00%	Sandy and Gravel Shores									
92000	3	56758.22	14.03	0.25%	Lake									
93000	34	2418522.87	597.63	10.84%	Open Wetland									
TOTAL	3556	22316551.17	5514.54	100.00%										



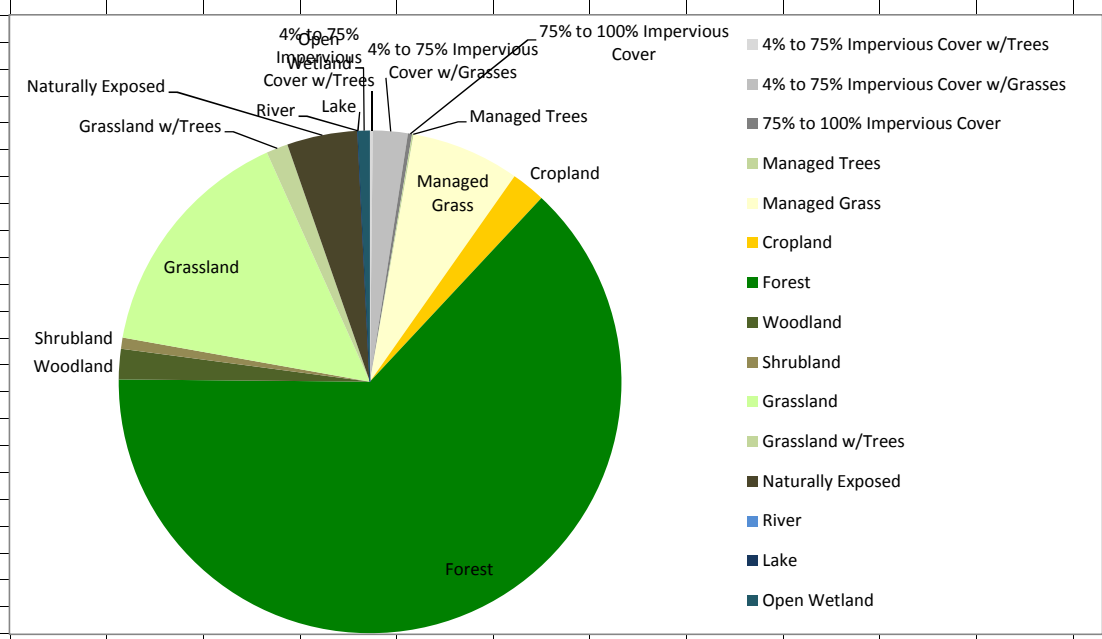
MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	11	20135.25	4.98	0.11%	4% to 10% Impervious Cover w/Trees	11000	0.71%	4% to 75% Impervious Cover w/Trees						
11220	22	40034.05	9.89	0.22%	11% to 25% Impervious Cover w/Trees	13000	3.33%	4% to 75% Impervious Cover w/Grasses						
11230	20	36220.34	8.95	0.20%	26% to 50% Impervious Cover w/Trees	14000	0.45%	75% to 100% Impervious Cover						
11240	21	30699.48	7.59	0.17%	51% to 75% Impervious Cover w/Trees	21000	0.05%	Managed Trees						
13110	10	16161.08	3.99	0.09%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	23000	0.68%	Managed Grass						
13120	38	54888.15	13.56	0.31%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	24000	9.11%	Cropland						
13130	3	4905.63	1.21	0.03%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	32000	36.65%	Forest						
13210	37	53654.60	13.26	0.30%	4% to 10% Impervious Cover w/Grasses	42000	2.73%	Woodland						
13220	54	48880.81	12.08	0.27%	11% to 25% Impervious Cover w/Grasses	52000	0.99%	Shrubland						
13230	234	368126.89	90.97	2.06%	26% to 50% Impervious Cover w/Grasses	61000	29.60%	Grassland						
13240	28	49003.50	12.11	0.27%	51% to 75% Impervious Cover w/Grasses	62000	8.13%	Grassland w/Trees						
14110	15	17846.77	4.41	0.10%	76% to 90% Impervious Cover w/Buildings and Pavement	80000	0.18%	Naturally Exposed						
14120	41	50281.96	12.42	0.28%	91% to 100% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14210	1	256.65	0.06	0.00%	0% to 10% Impervious Cover w/Exposed Earth	92000	6.70%	Lake						
14220	3	11519.52	2.85	0.06%	11% to 25% Impervious Cover w/Exposed Earth	93000	0.69%	Open Wetland						
21000	9	9113.06	2.25	0.05%	Planted, Maintained, or Cultivated Trees									
23200	84	121326.72	29.98	0.68%	Planted and Maintained Grasses									
24000	612	1628603.01	402.44	9.11%	Cropland									
32100	574	6539649.91	1615.98	36.60%	Upland Deciduous Forest									
32200	3	8809.03	2.18	0.05%	Wetland Forest									
42000	86	487589.55	120.49	2.73%	Woodland									
52100	85	176591.84	43.64	0.99%	Upland Deciduous Shrublands									
61200	497	4322100.31	1068.01	24.19%	Upland Grassland									
61400	72	708641.76	175.11	3.97%	Saturated Grasslands									
61500	13	182130.83	45.01	1.02%	Seasonally Flooded Grasslands									
61600	11	76296.41	18.85	0.43%	Semipermanently Flooded Grasslands									
62100	174	1439319.67	355.66	8.06%	Grassland w/Sparse Trees									
62300	1	12862.84	3.18	0.07%	Temporarily Flooded Grassland w/Sparse Trees									
83210	25	32553.85	8.04	0.18%	Sandy and Gravel Shores									
92000	20	1197296.57	295.86	6.70%	Lake									
93000	27	122938.13	30.38	0.69%	Open Wetland									
TOTAL	2831	17868438.17	4415.39	100.00%										



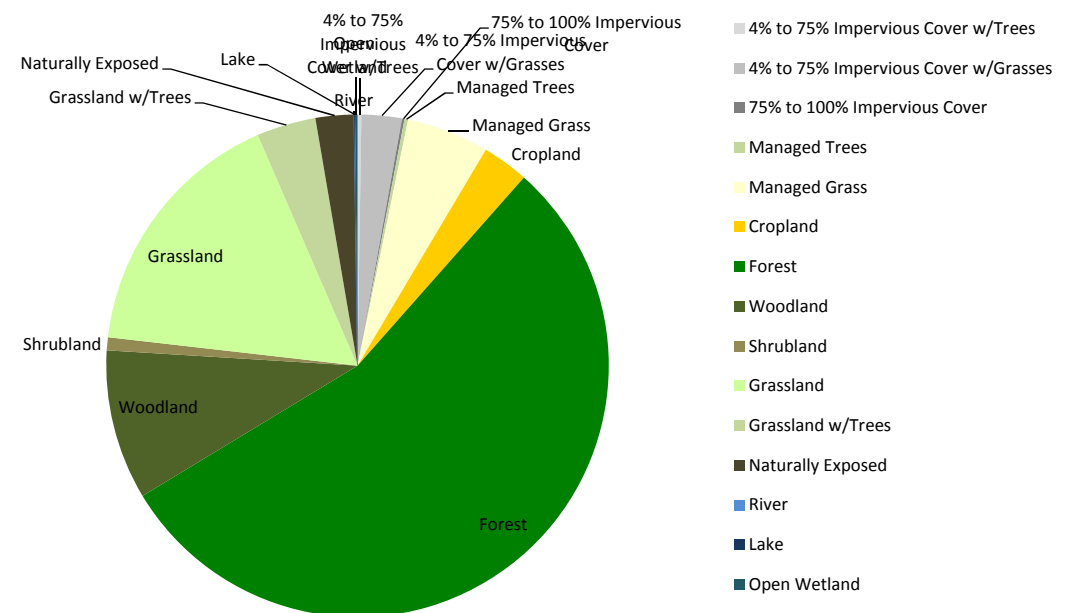
MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	4	774.78	0.19	0.01%	4% to 10% Impervious Cover w/Trees	11000	0.15%	4% to 75% Impervious Cover w/Trees						
11220	8	6272.55	1.55	0.11%	11% to 25% Impervious Cover w/Trees	13000	2.27%	4% to 75% Impervious Cover w/Grasses						
11230	2	1497.47	0.37	0.03%	26% to 50% Impervious Cover w/Trees	14000	0.58%	75% to 100% Impervious Cover						
13110	1	846.49	0.21	0.01%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	21000	0.02%	Managed Trees						
13120	12	6588.52	1.63	0.11%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	23000	3.50%	Managed Grass						
13130	5	5680.36	1.40	0.10%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	24000	3.08%	Cropland						
13140	1	560.43	0.14	0.01%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	32000	49.23%	Forest						
13210	1	0.68	0.00	0.00%	4% to 10% Impervious Cover w/Grasses	42000	1.07%	Woodland						
13220	24	22602.35	5.59	0.39%	11% to 25% Impervious Cover w/Grasses	52000	1.45%	Shrubland						
13230	95	95860.46	23.69	1.64%	26% to 50% Impervious Cover w/Grasses	61000	37.01%	Grassland						
13240	1	594.01	0.15	0.01%	51% to 75% Impervious Cover w/Grasses	62000	1.04%	Grassland w/Trees						
14110	4	530.63	0.13	0.01%	76% to 90% Impervious Cover w/Buildings and Pavement	80000	0.04%	Naturally Exposed						
14120	45	33191.58	8.20	0.57%	91% to 100% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14210	5	242.95	0.06	0.00%	0% to 10% Impervious Cover w/Exposed Earth	92000	0.53%	Lake						
21000	8	1088.12	0.27	0.02%	Planted, Maintained, or Cultivated Trees	93000	0.05%	Open Wetland						
23200	127	204702.92	50.58	3.50%	Planted and Maintained Grasses									
24000	128	180292.54	44.55	3.08%	Cropland									
32100	301	2858432.01	706.33	48.81%	Upland Deciduous Forest									
32200	8	24500.82	6.05	0.42%	Wetland Forest									
42000	26	62390.03	15.42	1.07%	Woodland									
52100	88	80380.69	19.86	1.37%	Upland Deciduous Shrublands									
52300	5	4391.42	1.09	0.07%	Wetland Deciduous Shrublands									
61200	195	1960927.36	484.56	33.49%	Upland Grassland									
61300	48	187125.09	46.24	3.20%	Temporarily Flooded Grasslands									
61400	6	15707.15	3.88	0.27%	Saturated Grasslands									
61500	3	481.85	0.12	0.01%	Seasonally Flooded Grasslands									
61600	4	1988.24	0.49	0.03%	Semipermanently Flooded Grasslands									
61800	1	1141.19	0.28	0.02%	Permanently Flooded Grasslands									
62100	34	60769.38	15.02	1.04%	Grassland w/Sparse Trees									
83210	4	2231.40	0.55	0.04%	Sandy and Gravel Shores									
92000	2	31149.96	7.70	0.53%	Lake									
93000	12	2996.32	0.74	0.05%	Open Wetland									
TOTAL	1208	5855939.72	1447.03	100.00%										



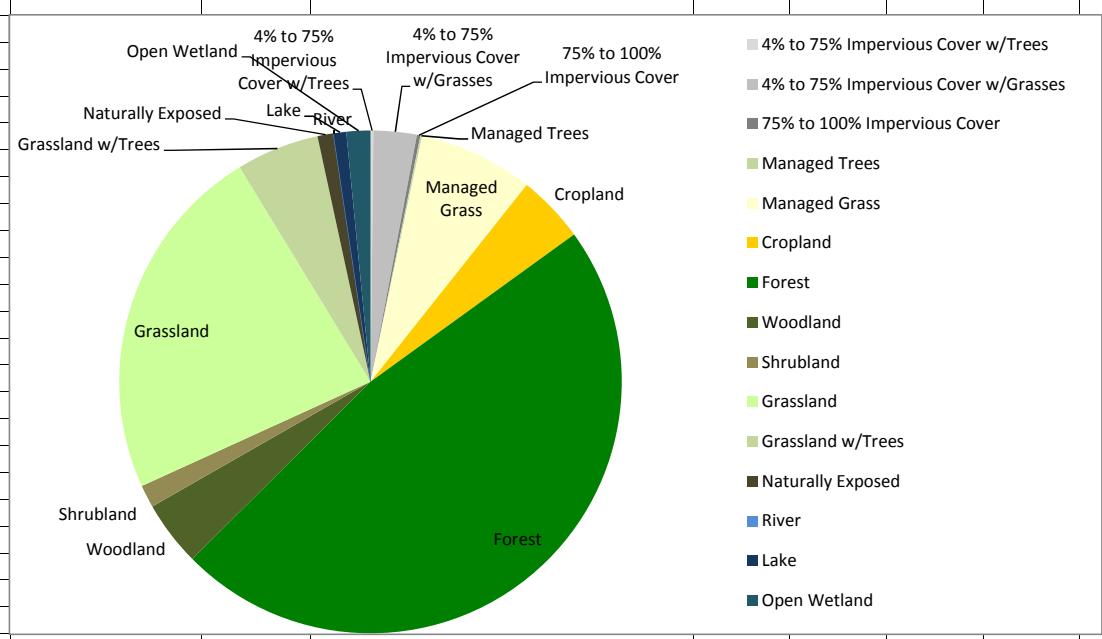
MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Tab	Table Data	Label												
11210	13	25838.31	6.38	0.18%	4% to 10% Impervious Cover w/Trees	11000	0.18%	4% to 75% Impervious Cover w/Trees												
11230	3	750.61	0.19	0.01%	26% to 50% Impervious Cover w/Trees	13000	2.23%	4% to 75% Impervious Cover w/Grasses												
13110	9	11666.30	2.88	0.08%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	14000	0.27%	75% to 100% Impervious Cover												
13120	20	27091.14	6.69	0.19%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	21000	0.09%	Managed Trees												
13130	4	5459.22	1.35	0.04%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	23000	6.97%	Managed Grass												
13140	1	1743.33	0.43	0.01%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	24000	2.20%	Cropland												
13210	8	5649.34	1.40	0.04%	4% to 10% Impervious Cover w/Grasses	32000	63.22%	Forest												
13220	16	9182.23	2.27	0.06%	11% to 25% Impervious Cover w/Grasses	42000	1.95%	Woodland												
13230	152	263605.94	65.14	1.81%	26% to 50% Impervious Cover w/Grasses	52000	0.72%	Shrubland												
13240	1	19.28	0.00	0.00%	51% to 75% Impervious Cover w/Grasses	61000	15.44%	Grassland												
14110	3	4065.43	1.00	0.03%	76% to 90% Impervious Cover w/Buildings and Pavement	62000	1.40%	Grassland w/Trees												
14120	27	29408.01	7.27	0.20%	91% to 100% Impervious Cover w/Buildings and Pavement	80000	4.55%	Naturally Exposed												
14210	9	5968.92	1.48	0.04%	0% to 10% Impervious Cover w/Exposed Earth	91000	0.00%	River												
21000	12	13235.24	3.27	0.09%	Planted, Maintained, or Cultivated Trees	92000	0.00%	Lake												
23200	273	1015275.82	250.88	6.97%	Planted and Maintained Grasses	93000	0.79%	Open Wetland												
24000	256	319635.82	78.98	2.20%	Cropland															
32100	537	9030667.28	2231.53	62.02%	Upland Deciduous Forest															
32200	26	174085.83	43.02	1.20%	Wetland Forest															
42000	141	278741.36	68.88	1.91%	Woodland															
42200	8	4851.05	1.20	0.03%	Wetland Woodland															
52100	63	94948.01	23.46	0.65%	Upland Deciduous Shrublands															
52300	4	10443.09	2.58	0.07%	Wetland Deciduous Shrublands															
61200	709	1736125.96	429.01	11.92%	Upland Grassland															
61300	39	110196.97	27.23	0.76%	Temporarily Flooded Grasslands															
61400	12	89763.85	22.18	0.62%	Saturated Grasslands															
61500	21	96916.23	23.95	0.67%	Seasonally Flooded Grasslands															
61600	16	61205.57	15.12	0.42%	Semipermanently Flooded Grasslands															
61700	14	56714.24	14.01	0.39%	Intermittently Exposed Grassland															
61800	18	97376.44	24.06	0.67%	Permanently Flooded Grasslands															
62100	105	189223.88	46.76	1.30%	Grassland w/Sparse Trees															
62300	2	14702.93	3.63	0.10%	Temporarily Flooded Grassland w/Sparse Trees															
83210	273	661997.09	163.58	4.55%	Sandy and Gravel Shores															
93000	12	114470.46	28.29	0.79%	Open Wetland															
TOTAL	2807	14561025.21	3598.11	100.00%																



MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	25	29747.71	7.35	0.14%	4% to 10% Impervious Cover w/Trees	11000	0.25%	4% to 75% Impervious Cover w/Trees						
11220	18	18095.36	4.47	0.09%	11% to 25% Impervious Cover w/Trees	13000	2.58%	4% to 75% Impervious Cover w/Grasses						
11230	5	4633.41	1.14	0.02%	26% to 50% Impervious Cover w/Trees	14000	0.17%	75% to 100% Impervious Cover						
13110	18	34069.56	8.42	0.16%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	21000	0.23%	Managed Trees						
13120	25	32314.67	7.99	0.15%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	23000	5.31%	Managed Grass						
13130	11	2806.92	0.69	0.01%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	24000	2.97%	Cropland						
13210	36	37561.80	9.28	0.18%	4% to 10% Impervious Cover w/Grasses	32000	54.82%	Forest						
13220	23	15164.14	3.75	0.07%	11% to 25% Impervious Cover w/Grasses	42000	9.64%	Woodland						
13230	212	421538.15	104.16	2.00%	26% to 50% Impervious Cover w/Grasses	52000	0.85%	Shrubland						
13240	4	1533.84	0.38	0.01%	51% to 75% Impervious Cover w/Grasses	61000	16.69%	Grassland						
14110	3	4920.82	1.22	0.02%	76% to 90% Impervious Cover w/Buildings and Pavement	62000	3.80%	Grassland w/Trees						
14120	17	16187.49	4.00	0.08%	91% to 100% Impervious Cover w/Buildings and Pavement	80000	2.46%	Naturally Exposed						
14210	10	13848.02	3.42	0.07%	0% to 10% Impervious Cover w/Exposed Earth	91000	0.00%	River						
21000	21	47777.04	11.81	0.23%	Planted, Maintained, or Cultivated Trees	92000	0.06%	Lake						
23200	335	1121060.88	277.02	5.31%	Planted and Maintained Grasses	93000	0.17%	Open Wetland						
24000	330	626787.76	154.88	2.97%	Cropland									
32100	587	11357976.52	2806.62	53.84%	Upland Deciduous Forest									
32200	19	206582.17	51.05	0.98%	Wetland Forest									
42000	335	2033905.81	502.59	9.64%	Woodland									
42200	2	345.31	0.09	0.00%	Wetland Woodland									
52100	93	178404.72	44.08	0.85%	Upland Deciduous Shrublands									
61200	688	3344512.87	826.45	15.86%	Upland Grassland									
61300	16	63549.16	15.70	0.30%	Temporarily Flooded Grasslands									
61400	1	5294.46	1.31	0.03%	Saturated Grasslands									
61500	2	1928.10	0.48	0.01%	Seasonally Flooded Grasslands									
61600	12	33845.17	8.36	0.16%	Semipermanently Flooded Grasslands									
61700	9	53113.30	13.12	0.25%	Intermittently Exposed Grassland									
61800	9	17738.29	4.38	0.08%	Permanently Flooded Grasslands									
62100	251	783576.35	193.63	3.71%	Grassland w/Sparse Trees									
62300	4	18163.39	4.49	0.09%	Temporarily Flooded Grassland w/Sparse Trees									
83210	177	518781.23	128.19	2.46%	Sandy and Gravel Shores									
92000	1	12957.32	3.20	0.06%	Lake									
93000	5	35567.81	8.79	0.17%	Open Wetland									
TOTAL	3304	21094289.57	5212.51	100.00%										



MLCCS Code	Polygon Count	Area (meters)	Area (acres)	Percentage	Landuse Description	MLCCS Table Value	Table Data	Label						
11210	106	128442.96	31.74	0.07%	4% to 10% Impervious Cover w/Trees	11000	0.17%	4% to 75% Impervious Cover w/Trees						
11220	91	90681.81	22.41	0.05%	11% to 25% Impervious Cover w/Trees	13000	2.78%	4% to 75% Impervious Cover w/Grasses						
11230	58	74349.02	18.37	0.04%	26% to 50% Impervious Cover w/Trees	14000	0.22%	75% to 100% Impervious Cover						
11240	24	33621.36	8.31	0.02%	51% to 75% Impervious Cover w/Trees	21000	0.12%	Managed Trees						
13110	154	149493.93	36.94	0.08%	4% to 10% Impervious Cover w/Grasses and Sparse Trees	23000	7.38%	Managed Grass						
13120	306	382269.76	94.46	0.20%	11% to 25% Impervious Cover w/Grasses and Sparse Trees	24000	4.34%	Cropland						
13130	73	50768.08	12.55	0.03%	26% to 50% Impervious Cover w/Grasses and Sparse Trees	32000	47.54%	Forest						
13140	18	23730.81	5.86	0.01%	51% to 75% Impervious Cover w/Grasses and Sparse Trees	42000	4.18%	Woodland						
13210	179	150875.66	37.28	0.08%	4% to 10% Impervious Cover w/Grasses	52000	1.46%	Shrubland						
13220	312	252867.42	62.48	0.13%	11% to 25% Impervious Cover w/Grasses	61000	23.07%	Grassland						
13230	2635	4153121.75	1026.26	2.21%	26% to 50% Impervious Cover w/Grasses	62000	5.34%	Grassland w/Trees						
13240	54	59263.91	14.64	0.03%	51% to 75% Impervious Cover w/Grasses	80000	1.02%	Naturally Exposed						
14110	54	46814.16	11.57	0.02%	76% to 90% Impervious Cover w/Buildings and Pavement	91000	0.00%	River						
14120	365	271896.01	67.19	0.14%	91% to 100% Impervious Cover w/Buildings and Pavement	92000	0.83%	Lake						
14210	78	74012.91	18.29	0.04%	0% to 10% Impervious Cover w/Exposed Earth	93000	1.54%	Open Wetland						
14220	5	12949.33	3.20	0.01%	11% to 25% Impervious Cover w/Exposed Earth									
14230	5	12490.53	3.09	0.01%	26% to 50% Impervious Cover w/Exposed Earth									
21000	188	228993.71	56.59	0.12%	Planted, Maintained, or Cultivated Trees									
23200	3240	13874743.06	3428.52	7.38%	Planted and Maintained Grasses									
24000	4742	8147336.91	2013.25	4.34%	Cropland									
32100	7299	85349218.47	21090.25	45.42%	Upland Deciduous Forest									
32200	344	3979820.51	983.44	2.12%	Wetland Forest									
42000	1814	7250805.83	1791.71	3.86%	Woodland									
42200	95	606116.80	149.77	0.32%	Wetland Woodland									
52100	1226	2576179.55	636.59	1.37%	Upland Deciduous Shrublands									
52300	71	176126.04	43.52	0.09%	Wetland Deciduous Shrublands									
61200	6110	38217833.20	9443.83	20.34%	Upland Grassland									
61300	703	2705780.98	668.61	1.44%	Temporarily Flooded Grasslands									
61400	155	1327360.23	328.00	0.71%	Saturated Grasslands									
61500	75	455687.71	112.60	0.24%	Seasonally Flooded Grasslands									
61600	67	225888.42	55.82	0.12%	Semipermanently Flooded Grasslands									
61700	57	242708.29	59.97	0.13%	Intermittently Exposed Grassland									
61800	70	179460.76	44.35	0.10%	Permanently Flooded Grasslands									
62100	2091	9555339.14	2361.18	5.09%	Grassland w/Sparse Trees									
62300	110	469966.68	116.13	0.25%	Temporarily Flooded Grassland w/Sparse Trees									
81100	19	79402.88	19.62	0.04%	Cliffs									
83210	881	1841229.08	454.98	0.98%	Sandy and Gravel Shores									
92000	31	1554005.01	384.00	0.83%	Lake									
93000	146	2888495.14	713.76	1.54%	Open Wetland									
TOTAL	34051	187900147.84	46431.14	100.00%										



MLCCS

MLCCS code	Code Description
0	Unknown
10000	Artificial surfaces
11000	Artificial Surfaces w/Tree Cover
11210	4% to 10% Impervious Cover w/Trees
11220	11% to 25% Impervious Cover w/Trees
11230	26% to 50% Impervious Cover w/Trees
11240	51% to 75% Impervious Cover w/Trees
13000	Artificial Surfaces w/Grass Cover
13110	4% to 10% Impervious Cover w/Grasses and Sparse Trees
13120	11% to 25% Impervious Cover w/Grasses and Sparse Trees
13130	26% to 50% Impervious Cover w/Grasses and Sparse Trees
13140	51% to 75% Impervious Cover w/Grasses and Sparse Trees
13210	4% to 10% Impervious Cover w/Grasses
13220	11% to 25% Impervious Cover w/Grasses
13230	26% to 50% Impervious Cover w/Grasses
13240	51% to 75% Impervious Cover w/Grasses
14000	Artificial Surfaces w/Buildings and Pavement
14110	76% to 90% Impervious Cover w/Buildings and Pavement
14120	91% to 100% Impervious Cover w/Buildings and Pavement
14200	Artificially Exposed Earth
14210	0% to 10% Impervious Cover w/Exposed Earth
14220	11% to 25% Impervious Cover w/Exposed Earth
14230	26% to 50% Impervious Cover w/Exposed Earth
20000	Planted or Cultivated Vegetation
21000	Planted, Maintained, or Cultivated Trees
21100	Planted, Maintained, or Cultivated Coniferous Trees
21200	Planted, Maintained, or Cultivated Deciduous Trees
21300	Planted, Maintained, or Cultivated Mixed Trees
23200	Planted and Maintained Grasses
23211	Planted and Maintained Short Grasses
23212	Planted and Maintained Long Grasses
24000	Cropland
24110	Cropland on Upland Soils
24120	Cropland on Hydric Soils
30000	Forests
31100	Upland Coniferous Forest
31200	Wetland Coniferous Forest
32100	Upland Forest
32100	Upland Deciduous Forest
32200	Wetland Forest
32200	Wetland Deciduous Forest
32200	Wetland Forest
33100	Upland Mixed Forest
42000	Woodland
42200	Wetland Woodland
50000	Shrublands
51100	Wetland Coniferous/Evergreen Shrublands
52100	Upland Shrublands
52100	Upland Deciduous Shrublands
52300	Wetland Shrublands
52300	Wetland Deciduous Shrublands
60000	Herbaceous
61200	Upland Grassland
61300	Temporarily Flooded Grasslands
61400	Saturated Grasslands
61500	Seasonally Flooded Grasslands
61600	Semipermanently Flooded Grasslands
61700	Intermittently Exposed Grassland
61800	Permanently Flooded Grasslands
62100	Grassland w/Sparse Trees
62300	Temporarily Flooded Grassland w/Sparse Trees
80000	Sparse Vegetation
81100	Cliffs
81200	Upland Sparse Vegetation
82000	Upland Naturally Exposed Earth
83200	Wetland Sparse Vegetation
83210	Sandy and Gravel Shores
83310	Mud Flats
90000	Water
91000	River
92000	Lake
93000	Open Wetland