

# Master Plan for Grand Traverse County

## Appendix D: 2010 Grand Traverse County and Local Units Land Use/Land Cover

Grand Traverse County  
Acme Township  
Blair Township  
East Bay Charter Township  
Fife Lake Township  
Fife Lake Village  
Garfield Charter Township  
Grant Township  
Green Lake Township  
Kingsley Village  
Long Lake Township  
Mayfield Township  
Paradise Township  
Peninsula Township  
Traverse City  
Union Township  
Whitewater Township



Prepared by:  
Grand Traverse County  
GIS Department and  
Planning & Development Department

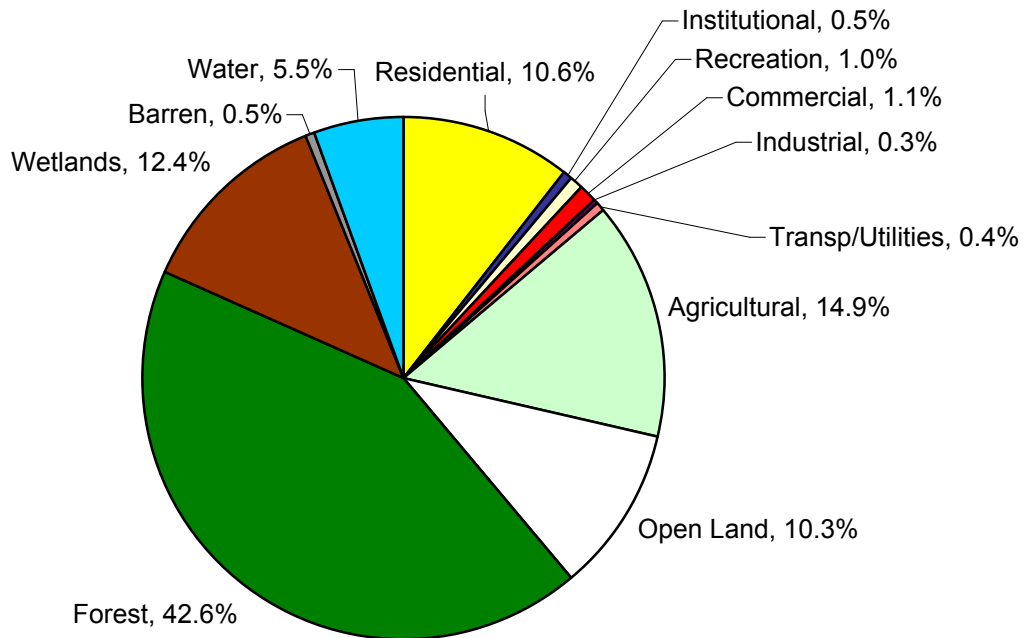
# Grand Traverse County Land Use/Land Cover 2010

Michigan				
CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	33,265	10.6%	<b>Residential</b>	<b>33,265</b>
Institutional	1,589	0.5%	<i>Single Family/Duplex Residential</i>	32,246
Recreation	3,025	1.0%	<i>Multiple Family Residential (Low Rise)</i>	522
Commercial	3,440	1.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	23
Industrial	901	0.3%	<i>Manufactured Home Park</i>	436
Transp/Utilities	1,347	0.4%	<i>Group/Transient Quarters</i>	38
Agricultural	46,805	14.9%	<b>Institutional</b>	<b>1,589</b>
Open Land	32,421	10.3%	<b>Recreation</b>	<b>3,025</b>
Forest	133,966	42.6%	<i>Indoor Cultural/Assembly/Recreation</i>	38
Wetlands	39,037	12.4%	<i>Open Land Recreation</i>	2,987
Barren	1,568	0.5%	<b>Commercial</b>	<b>3,440</b>
Water	17,336	5.5%	<b>Industrial</b>	<b>901</b>
<b>TOTAL ACREAGE</b>	<b>314,700</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>1,347</b>

<b>Agricultural</b>	<b>46,805</b>
<i>Cropland</i>	36,358
<i>Orchards/Vineyards</i>	9,007
<i>Confined Feeding Operations</i>	35
<i>Permanent Pasture Lands</i>	1,139
<i>Other Agricultural Lands</i>	267
<b>Grass/Shrublands</b>	<b>32,241</b>
<b>Forest</b>	<b>133,966</b>
<i>Broadleaved Forest</i>	55,204
<i>Coniferous Forest</i>	55,281
<i>Mixed Conifer/Broadleaved Forest</i>	23,481
<b>Wetlands</b>	<b>39,037</b>
<i>Wooded Wetlands</i>	33,190
<i>Non-Wooded Wetlands</i>	5,847
<b>Barren</b>	<b>1,568</b>
<i>Beach/Riverbank</i>	355
<i>Sand Dune/Exposed Bluff</i>	216
<i>Extractive</i>	996
<b>Water</b>	<b>17,336</b>
<b>TOTAL ACREAGE</b>	<b>314,700</b>



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# Acme Township Land Use/Land Cover 2010

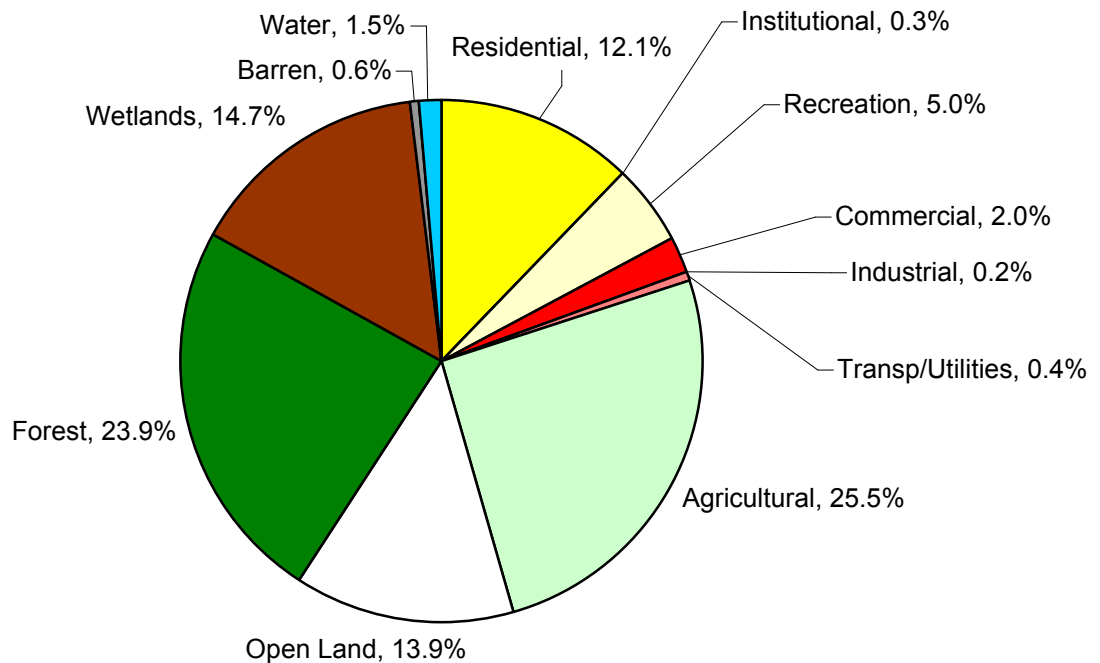
Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	1,876	12.1%	<b>Residential</b>	<b>1,876</b>
Institutional	41	0.3%	<i>Single Family/Duplex Residential</i>	1,795
Recreation	772	5.0%	<i>Multiple Family Residential (Low Rise)</i>	35
Commercial	310	2.0%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	33	0.2%	<i>Manufactured Home Park</i>	46
Transp/Utilities	60	0.4%	<i>Group/Transient Quarters</i>	0
Agricultural	3,960	25.5%	<b>Institutional</b>	<b>41</b>
Open Land	2,151	13.9%	<b>Recreation</b>	<b>772</b>
Forest	3,708	23.9%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	2,288	14.7%	<i>Open Land Recreation</i>	772
Barren	90	0.6%	<b>Commercial</b>	<b>310</b>
Water	233	1.5%	<b>Industrial</b>	<b>33</b>
<b>TOTAL ACREAGE</b>	<b>15,523</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>60</b>

<b>Agricultural</b>	<b>3,960</b>
<i>Cropland</i>	2,142
<i>Orchards/Vineyards</i>	1,632
<i>Confined Feeding Operations</i>	0
<i>Permanent Pasture Lands</i>	115
<i>Other Agricultural Lands</i>	71
<b>Grass/Shrublands</b>	<b>2,151</b>
<b>Forest</b>	<b>3,708</b>
<i>Broadleaved Forest</i>	1,248
<i>Coniferous Forest</i>	1,553
<i>Mixed Conifer/Broadleaved Forest</i>	907
<b>Wetlands</b>	<b>2,288</b>
<i>Wooded Wetlands</i>	1,667
<i>Non-Wooded Wetlands</i>	621
<b>Barren</b>	<b>90</b>
<i>Beach/Riverbank</i>	76
<i>Sand Dune/Exposed Bluff</i>	0
<i>Extractive</i>	14
<b>Water</b>	<b>233</b>
<b>TOTAL ACREAGE</b>	<b>15,523</b>



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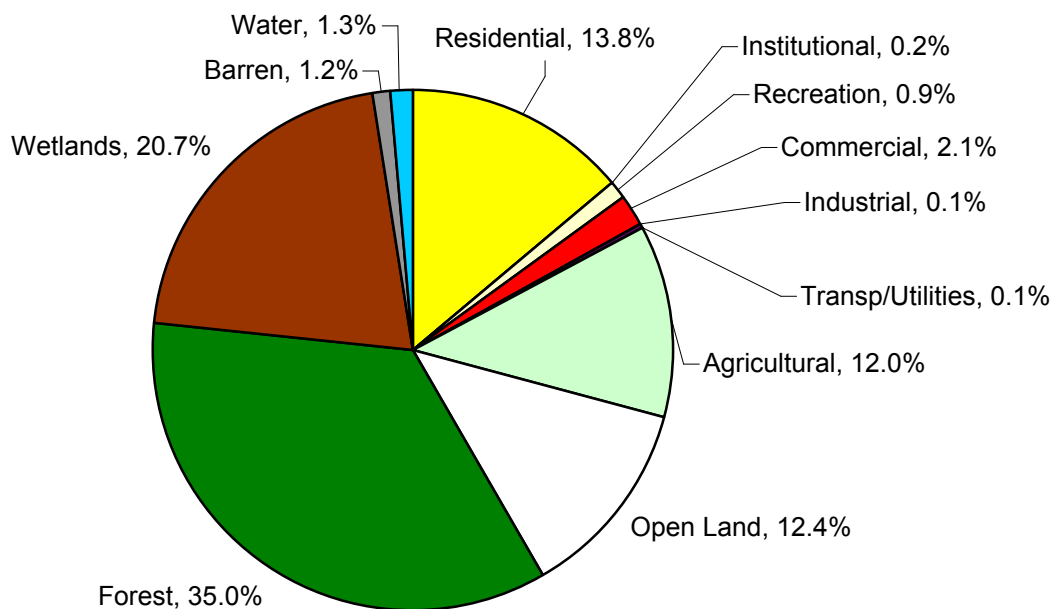
# Blair Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	3,177	13.8%	<b>Residential</b>	<b>3,177</b>
Institutional	53	0.2%	<i>Single Family/Duplex Residential</i>	3,138
Recreation	199	0.9%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	492	2.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	33	0.1%	<i>Manufactured Home Park</i>	39
Transp/Utilities	22	0.1%	<i>Group/Transient Quarters</i>	0
Agricultural	2,775	12.0%	<b>Institutional</b>	<b>53</b>
Open Land	2,868	12.4%	<b>Recreation</b>	<b>199</b>
Forest	8,068	35.0%	<i>Indoor Cultural/Assembly/Recreation</i>	1
Wetlands	4,784	20.7%	<i>Open Land Recreation</i>	198
Barren	288	1.2%	<b>Commercial</b>	<b>492</b>
Water	297	1.3%	<b>Industrial</b>	<b>33</b>
<b>TOTAL ACREAGE</b>	<b>23,056</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>22</b>
			<b>Agricultural</b>	<b>2,775</b>
			<i>Cropland</i>	2,511
			<i>Orchards/Vineyards</i>	230
			<i>Confined Feeding Operations</i>	8
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	26
			<b>Grass/Shrublands</b>	<b>2,868</b>
			<b>Forest</b>	<b>8,068</b>
			<i>Broadleaved Forest</i>	4,907
			<i>Coniferous Forest</i>	2,742
			<i>Mixed Conifer/Broadleaved Forest</i>	419
			<b>Wetlands</b>	<b>4,784</b>
			<i>Wooded Wetlands</i>	4,667
			<i>Non-Wooded Wetlands</i>	117
			<b>Barren</b>	<b>288</b>
			<i>Beach/Riverbank</i>	6
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	282
			<b>Water</b>	<b>297</b>
			<b>TOTAL ACREAGE</b>	<b>23,056</b>



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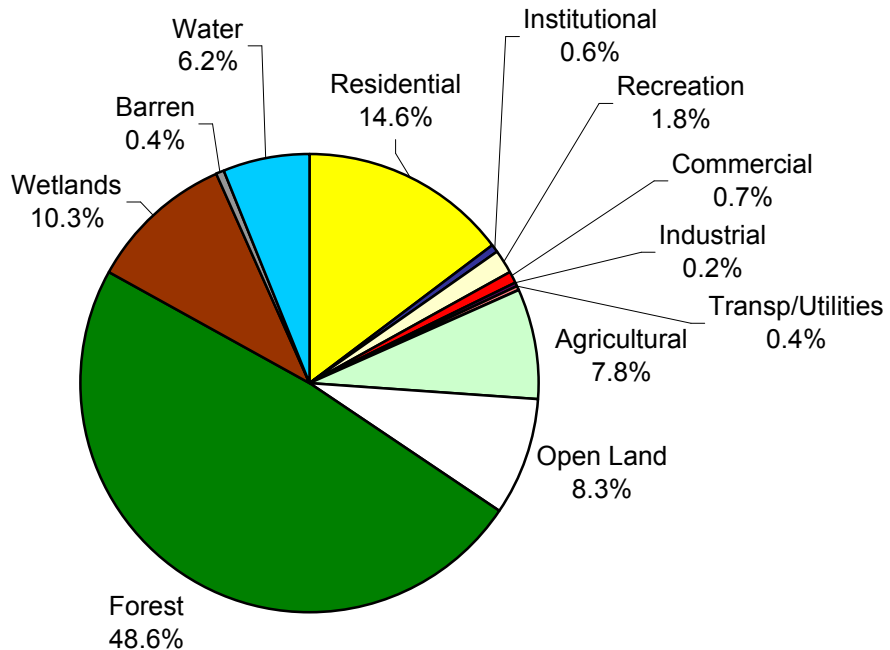
# East Bay Charter Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	4,011	14.6%	<b>Residential</b>	<b>4,011</b>
Institutional	163	0.6%	<i>Single Family/Duplex Residential</i>	3,840
Recreation	491	1.8%	<i>Multiple Family Residential (Low Rise)</i>	102
Commercial	205	0.7%	<i>Multiple Family Residential (Med/Hi Rise)</i>	7
Industrial	51	0.2%	<i>Manufactured Home Park</i>	40
Transp/Utilities	101	0.4%	<i>Group/Transient Quarters</i>	22
Agricultural	2,132	7.8%	<b>Institutional</b>	<b>163</b>
Open Land	2,290	8.3%	<b>Recreation</b>	<b>491</b>
Forest	13,335	48.6%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	2,827	10.3%	<i>Open Land Recreation</i>	491
Barren	121	0.4%	<b>Commercial</b>	<b>205</b>
Water	1,703	6.2%	<b>Industrial</b>	<b>51</b>
<b>TOTAL ACREAGE</b>	<b>27,430</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>101</b>
			<b>Agricultural</b>	<b>2,132</b>
			<i>Cropland</i>	1,619
			<i>Orchards/Vineyards</i>	502
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	11
			<b>Grass/Shrublands</b>	<b>2,290</b>
			<b>Forest</b>	<b>13,335</b>
			<i>Broadleaved Forest</i>	4,663
			<i>Coniferous Forest</i>	6,880
			<i>Mixed Conifer/Broadleaved Forest</i>	1,792
			<b>Wetlands</b>	<b>2,827</b>
			<i>Wooded Wetlands</i>	2,519
			<i>Non-Wooded Wetlands</i>	308
			<b>Barren</b>	<b>121</b>
			<i>Beach/Riverbank</i>	52
			<i>Sand Dune/Exposed Bluff</i>	26
			<i>Extractive</i>	43
			<b>Water</b>	<b>1,703</b>
			<b>TOTAL ACREAGE</b>	<b>27,430</b>



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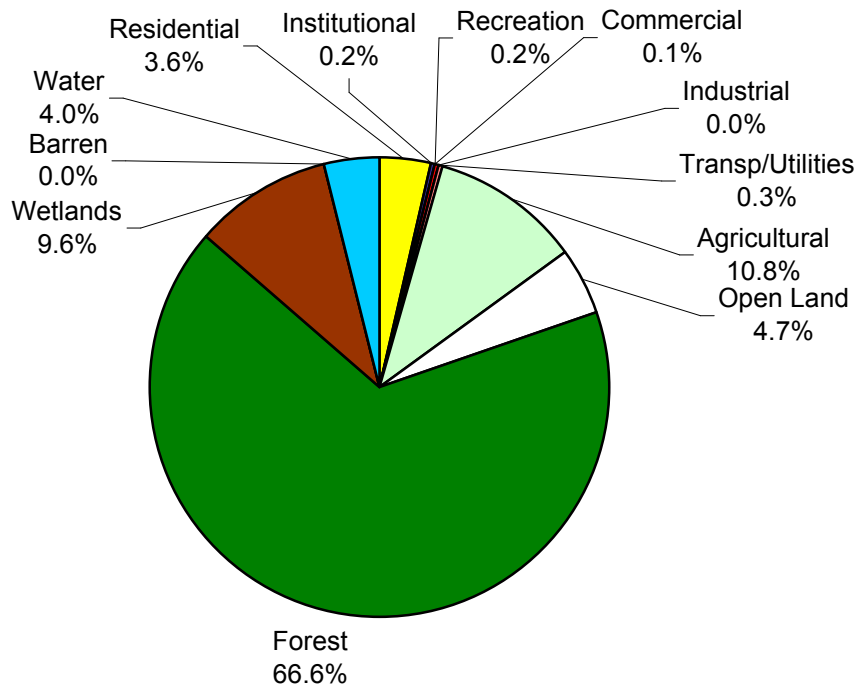
### Fife Lake Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	811	3.6%	<b>Residential</b>	<b>811</b>
Institutional	49	0.2%	<i>Single Family/Duplex Residential</i>	809
Recreation	37	0.2%	<i>Multiple Family Residential (Low Rise)</i>	2
Commercial	33	0.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	6	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	59	0.3%	<i>Group/Transient Quarters</i>	0
Agricultural	2,452	10.8%	<b>Institutional</b>	<b>49</b>
Open Land	1,075	4.7%	<b>Recreation</b>	<b>37</b>
Forest	15,158	66.6%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	2,181	9.6%	<i>Open Land Recreation</i>	37
Barren	0	0.0%	<b>Commercial</b>	<b>33</b>
Water	912	4.0%	<b>Industrial</b>	<b>6</b>
<b>TOTAL ACREAGE</b>	<b>22,773</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>59</b>
			<b>Agricultural</b>	<b>2,452</b>
			<i>Cropland</i>	2,452
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>1,075</b>
			<b>Forest</b>	<b>15,158</b>
			<i>Broadleaved Forest</i>	4,574
			<i>Coniferous Forest</i>	8,779
			<i>Mixed Conifer/Broadleaved Forest</i>	1,805
			<b>Wetlands</b>	<b>2,181</b>
			<i>Wooded Wetlands</i>	1,372
			<i>Non-Wooded Wetlands</i>	809
			<b>Barren</b>	<b>0</b>
			<i>Beach/Riverbank</i>	0
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	0
			<b>Water</b>	<b>912</b>
			<b>TOTAL ACREAGE</b>	<b>22,773</b>



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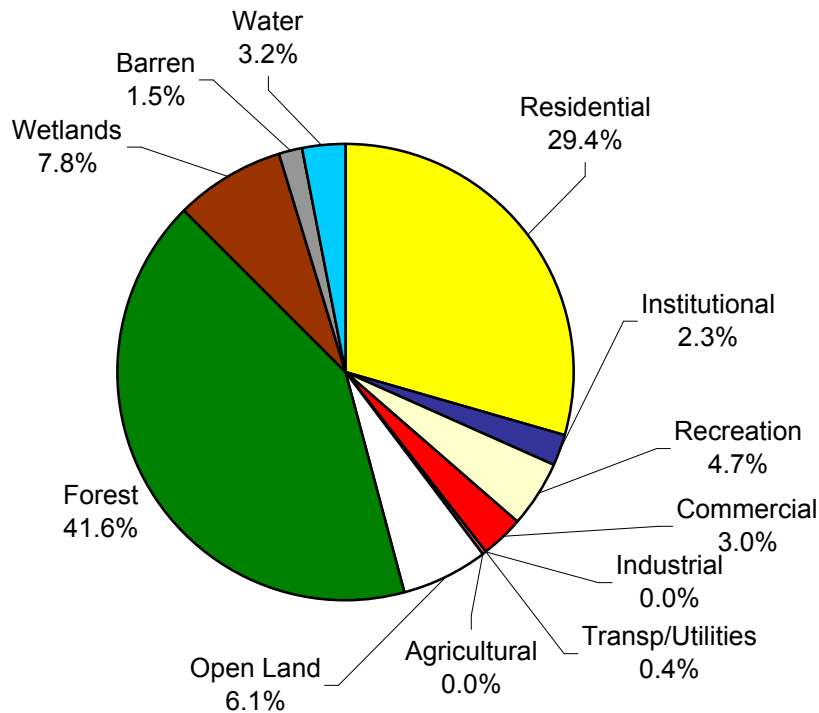
### Fife Lake Village Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	139	29.4%	<b>Residential</b>	<b>139</b>
Institutional	11	2.3%	<i>Single Family/Duplex Residential</i>	139
Recreation	22	4.7%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	14	3.0%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	2	0.4%	<i>Group/Transient Quarters</i>	0
Agricultural	0	0.0%	<b>Institutional</b>	<b>11</b>
Open Land	29	6.1%	<b>Recreation</b>	<b>22</b>
Forest	197	41.6%	<i>Indoor Cultural/Assembly/Recreation</i>	3
Wetlands	37	7.8%	<i>Open Land Recreation</i>	19
Barren	7	1.5%	<b>Commercial</b>	<b>14</b>
Water	15	3.2%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>473</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>2</b>
			<b>Agricultural</b>	<b>0</b>
			<i>Cropland</i>	0
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>29</b>
			<b>Forest</b>	<b>197</b>
			<i>Broadleaved Forest</i>	55
			<i>Coniferous Forest</i>	93
			<i>Mixed Conifer/Broadleaved Forest</i>	49
			<b>Wetlands</b>	<b>37</b>
			<i>Wooded Wetlands</i>	8
			<i>Non-Wooded Wetlands</i>	29
			<b>Barren</b>	<b>7</b>
			<i>Beach/Riverbank</i>	1
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	6
			<b>Water</b>	<b>15</b>
			<b>TOTAL ACREAGE</b>	<b>473</b>



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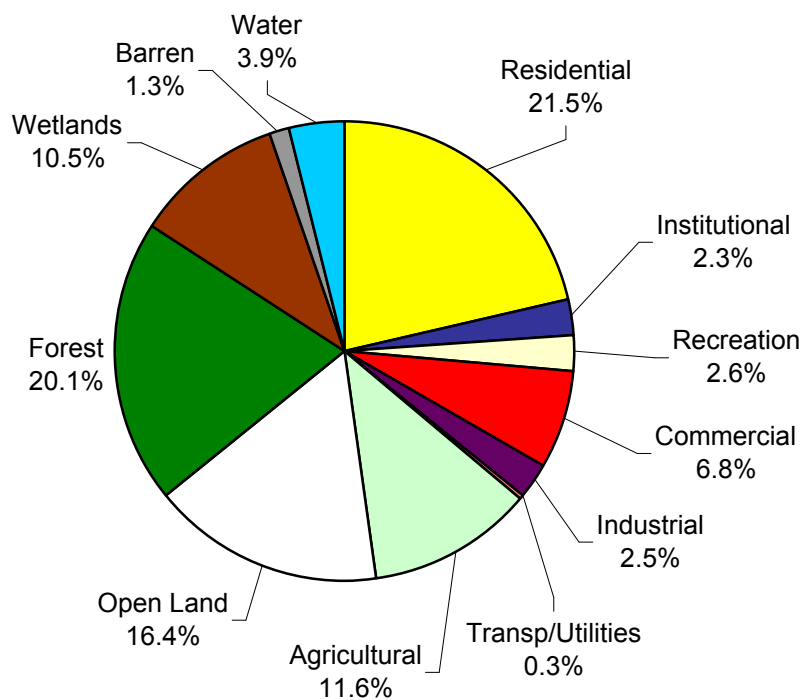
# Garfield Charter Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	3,823	21.5%	<b>Residential</b>	<b>3,823</b>
Institutional	409	2.3%	<i>Single Family/Duplex Residential</i>	3,341
Recreation	470	2.6%	<i>Multiple Family Residential (Low Rise)</i>	213
Commercial	1,216	6.8%	<i>Multiple Family Residential (Med/Hi Rise)</i>	1
Industrial	451	2.5%	<i>Manufactured Home Park</i>	255
Transp/Utilities	58	0.3%	<i>Group/Transient Quarters</i>	13
Agricultural	2,060	11.6%	<b>Institutional</b>	<b>409</b>
Open Land	2,927	16.4%	<b>Recreation</b>	<b>470</b>
Forest	3,576	20.1%	<i>Indoor Cultural/Assembly/Recreation</i>	3
Wetlands	1,873	10.5%	<i>Open Land Recreation</i>	467
Barren	235	1.3%	<b>Commercial</b>	<b>1,216</b>
Water	701	3.9%	<b>Industrial</b>	<b>451</b>
<b>TOTAL ACREAGE</b>	<b>17,799</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>58</b>
			<b>Agricultural</b>	<b>2,060</b>
			<i>Cropland</i>	1,496
			<i>Orchards/Vineyards</i>	95
			<i>Confined Feeding Operations</i>	10
			<i>Permanent Pasture Lands</i>	355
			<i>Other Agricultural Lands</i>	104
			<b>Grass/Shrublands</b>	<b>2,927</b>
			<b>Forest</b>	<b>3,576</b>
			<i>Broadleaved Forest</i>	1,761
			<i>Coniferous Forest</i>	1,074
			<i>Mixed Conifer/Broadleaved Forest</i>	741
			<b>Wetlands</b>	<b>1,873</b>
			<i>Wooded Wetlands</i>	1,742
			<i>Non-Wooded Wetlands</i>	131
			<b>Barren</b>	<b>235</b>
			<i>Beach/Riverbank</i>	37
			<i>Sand Dune/Exposed Bluff</i>	36
			<i>Extractive</i>	162
			<b>Water</b>	<b>701</b>
			<b>TOTAL ACREAGE</b>	<b>17,799</b>



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### Green Lake Township Land Use/Land Cover 2010

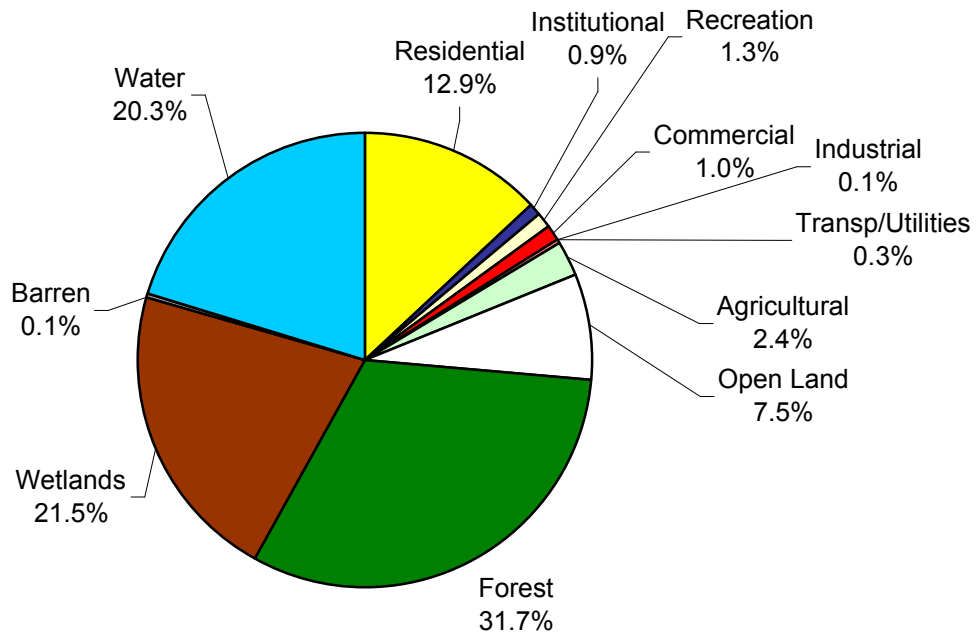
Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	3,013	12.9%	<b>Residential</b>	<b>3,013</b>
Institutional	204	0.9%	<i>Single Family/Duplex Residential</i>	3,011
Recreation	295	1.3%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	224	1.0%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	28	0.1%	<i>Manufactured Home Park</i>	2
Transp/Utilities	75	0.3%	<i>Group/Transient Quarters</i>	0
Agricultural	551	2.4%	<b>Institutional</b>	<b>204</b>
Open Land	1,749	7.5%	<b>Recreation</b>	<b>295</b>
Forest	7,388	31.7%	<i>Indoor Cultural/Assembly/Recreation</i>	2
Wetlands	5,008	21.5%	<i>Open Land Recreation</i>	293
Barren	28	0.1%	<b>Commercial</b>	<b>224</b>
Water	4,732	20.3%	<b>Industrial</b>	<b>28</b>
<b>TOTAL ACREAGE</b>	<b>23,295</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>75</b>

<b>Agricultural</b>	<b>551</b>
<i>Cropland</i>	509
<i>Orchards/Vineyards</i>	4
<i>Confined Feeding Operations</i>	0
<i>Permanent Pasture Lands</i>	31
<i>Other Agricultural Lands</i>	7
<b>Grass/Shrublands</b>	<b>1,749</b>
<b>Forest</b>	<b>7,388</b>
<i>Broadleaved Forest</i>	2,519
<i>Coniferous Forest</i>	2,597
<i>Mixed Conifer/Broadleaved Forest</i>	2,272
<b>Wetlands</b>	<b>5,008</b>
<i>Wooded Wetlands</i>	4,570
<i>Non-Wooded Wetlands</i>	438
<b>Barren</b>	<b>28</b>
<i>Beach/Riverbank</i>	0
<i>Sand Dune/Exposed Bluff</i>	0
<i>Extractive</i>	28
<b>Water</b>	<b>4,732</b>
<b>TOTAL ACREAGE</b>	<b>23,295</b>



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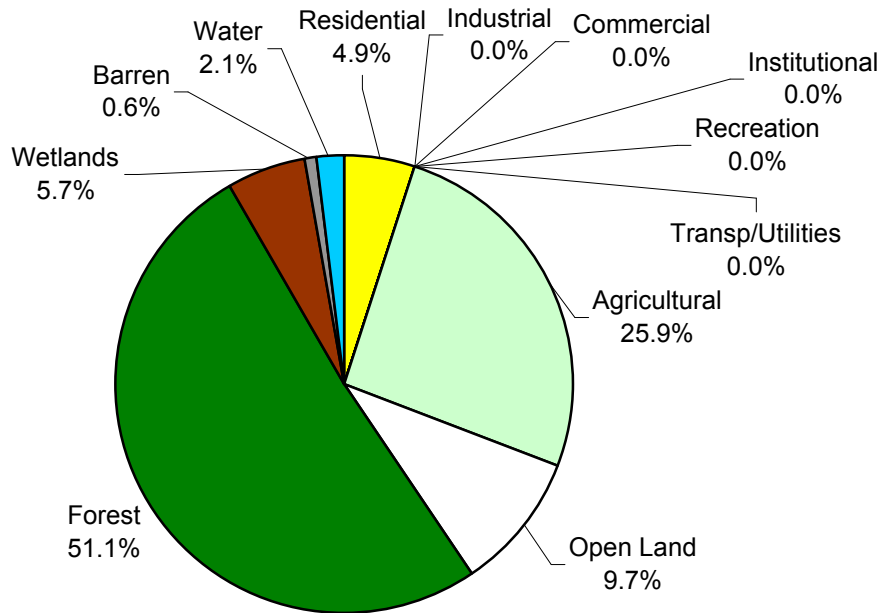
### Grant Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	1,130	4.9%	<b>Residential</b>	<b>1,130</b>
Institutional	1	0.0%	<i>Single Family/Duplex Residential</i>	1,130
Recreation	11	0.0%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	10	0.0%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	1	0.0%	<i>Group/Transient Quarters</i>	0
Agricultural	5,947	25.9%	<b>Institutional</b>	<b>1</b>
Open Land	2,224	9.7%	<b>Recreation</b>	<b>11</b>
Forest	11,750	51.1%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	1,304	5.7%	<i>Open Land Recreation</i>	11
Barren	140	0.6%	<b>Commercial</b>	<b>10</b>
Water	479	2.1%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>22,997</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>1</b>
			<b>Agricultural</b>	<b>5,947</b>
			<i>Cropland</i>	5,867
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	6
			<i>Permanent Pasture Lands</i>	68
			<i>Other Agricultural Lands</i>	6
			<b>Grass/Shrublands</b>	<b>2,224</b>
			<b>Forest</b>	<b>11,750</b>
			<i>Broadleaved Forest</i>	7,639
			<i>Coniferous Forest</i>	2,155
			<i>Mixed Conifer/Broadleaved Forest</i>	1,956
			<b>Wetlands</b>	<b>1,304</b>
			<i>Wooded Wetlands</i>	1,022
			<i>Non-Wooded Wetlands</i>	282
			<b>Barren</b>	<b>140</b>
			<i>Beach/Riverbank</i>	22
			<i>Sand Dune/Exposed Bluff</i>	7
			<i>Extractive</i>	111
			<b>Water</b>	<b>479</b>
			<b>TOTAL ACREAGE</b>	<b>22,997</b>



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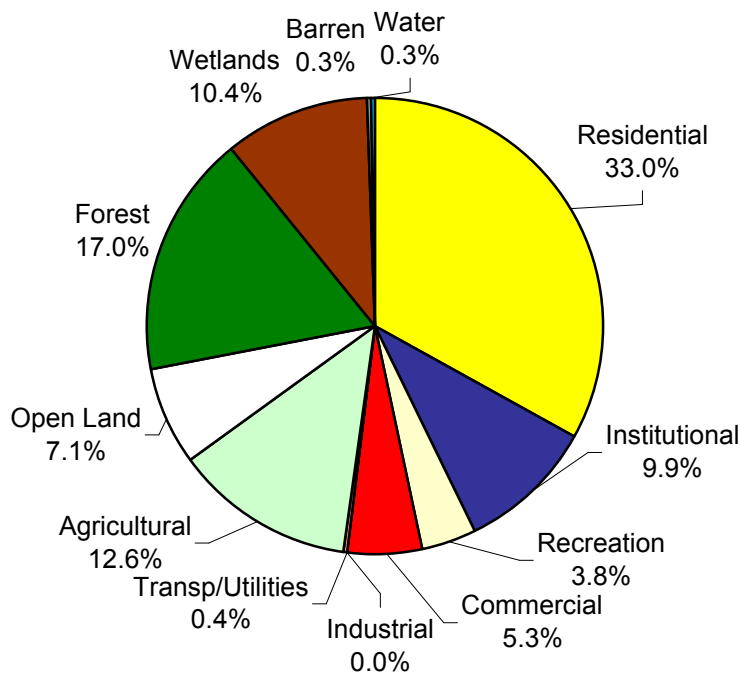
# Kingsley Village Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	254	33.0%	<b>Residential</b>	<b>254</b>
Institutional	76	9.9%	<i>Single Family/Duplex Residential</i>	210
Recreation	29	3.8%	<i>Multiple Family Residential (Low Rise)</i>	3
Commercial	41	5.3%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	41
Transp/Utilities	3	0.4%	<i>Group/Transient Quarters</i>	0
Agricultural	97	12.6%	<b>Institutional</b>	<b>76</b>
Open Land	55	7.1%	<b>Recreation</b>	<b>29</b>
Forest	131	17.0%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	80	10.4%	<i>Open Land Recreation</i>	29
Barren	2	0.3%	<b>Commercial</b>	<b>41</b>
Water	2	0.3%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>770</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>3</b>
			<b>Agricultural</b>	<b>97</b>
			<i>Cropland</i>	97
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>55</b>
			<b>Forest</b>	<b>131</b>
			<i>Broadleaved Forest</i>	69
			<i>Coniferous Forest</i>	60
			<i>Mixed Conifer/Broadleaved Forest</i>	2
			<b>Wetlands</b>	<b>80</b>
			<i>Wooded Wetlands</i>	74
			<i>Non-Wooded Wetlands</i>	6
			<b>Barren</b>	<b>2</b>
			<i>Beach/Riverbank</i>	0
			<i>Sand Dune/Exposed Bluff</i>	1
			<i>Extractive</i>	1
			<b>Water</b>	<b>2</b>
			<b>TOTAL ACREAGE</b>	<b>770</b>



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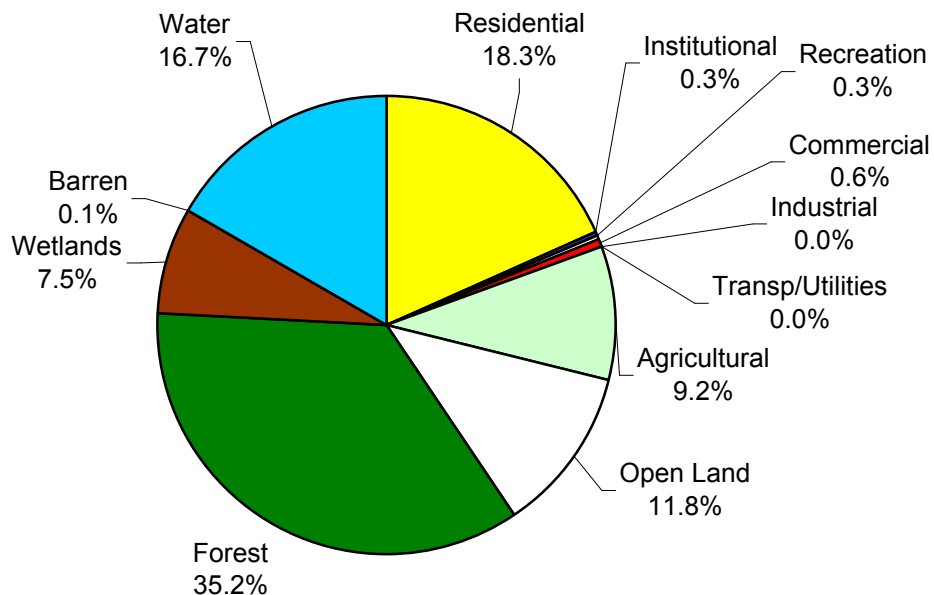
# Long Lake Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	4,195	18.3%	<b>Residential</b>	<b>4,195</b>
Institutional	59	0.3%	<i>Single Family/Duplex Residential</i>	4,156
Recreation	71	0.3%	<i>Multiple Family Residential (Low Rise)</i>	26
Commercial	141	0.6%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	13
Transp/Utilities	7	0.0%	<i>Group/Transient Quarters</i>	0
Agricultural	2,108	9.2%	<b>Institutional</b>	<b>59</b>
Open Land	2,698	11.8%	<b>Recreation</b>	<b>71</b>
Forest	8,060	35.2%	<i>Indoor Cultural/Assembly/Recreation</i>	7
Wetlands	1,706	7.5%	<i>Open Land Recreation</i>	64
Barren	15	0.1%	<b>Commercial</b>	<b>141</b>
Water	3,827	16.7%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>22,887</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>7</b>
			<b>Agricultural</b>	<b>2,108</b>
			<i>Cropland</i>	1,760
			<i>Orchards/Vineyards</i>	161
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	177
			<i>Other Agricultural Lands</i>	10
			<b>Grass/Shrublands</b>	<b>2,698</b>
			<b>Forest</b>	<b>8,060</b>
			<i>Broadleaved Forest</i>	4,011
			<i>Coniferous Forest</i>	3,275
			<i>Mixed Conifer/Broadleaved Forest</i>	774
			<b>Wetlands</b>	<b>1,706</b>
			<i>Wooded Wetlands</i>	1,372
			<i>Non-Wooded Wetlands</i>	334
			<b>Barren</b>	<b>15</b>
			<i>Beach/Riverbank</i>	0
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	15
			<b>Water</b>	<b>3,827</b>
			<b>TOTAL ACREAGE</b>	<b>22,887</b>



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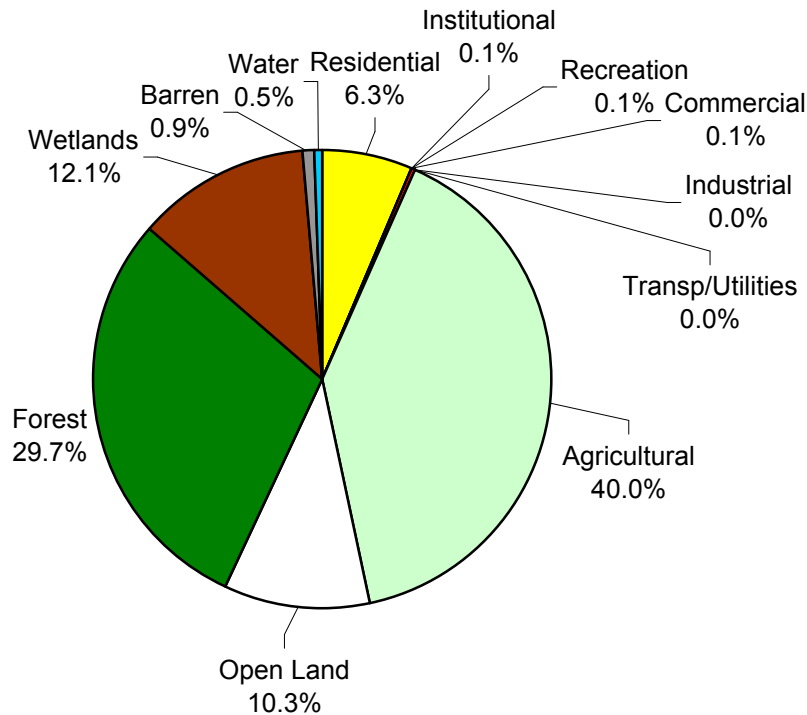
### Mayfield Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	1,462	6.3%	<b>Residential</b>	<b>1,462</b>
Institutional	15	0.1%	<i>Single Family/Duplex Residential</i>	1,456
Recreation	25	0.1%	<i>Multiple Family Residential (Low Rise)</i>	6
Commercial	21	0.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	1	0.0%	<i>Group/Transient Quarters</i>	0
Agricultural	9,224	40.0%	<b>Institutional</b>	<b>15</b>
Open Land	2,368	10.3%	<b>Recreation</b>	<b>25</b>
Forest	6,851	29.7%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	2,788	12.1%	<i>Open Land Recreation</i>	25
Barren	209	0.9%	<b>Commercial</b>	<b>21</b>
Water	116	0.5%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>23,080</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>1</b>
			<b>Agricultural</b>	<b>9,224</b>
			<i>Cropland</i>	9,172
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	4
			<i>Permanent Pasture Lands</i>	45
			<i>Other Agricultural Lands</i>	3
			<b>Grass/Shrublands</b>	<b>2,368</b>
			<b>Forest</b>	<b>6,851</b>
			<i>Broadleaved Forest</i>	4,345
			<i>Coniferous Forest</i>	2,179
			<i>Mixed Conifer/Broadleaved Forest</i>	327
			<b>Wetlands</b>	<b>2,788</b>
			<i>Wooded Wetlands</i>	2,255
			<i>Non-Wooded Wetlands</i>	533
			<b>Barren</b>	<b>209</b>
			<i>Beach/Riverbank</i>	6
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	203
			<b>Water</b>	<b>116</b>
			<b>TOTAL ACREAGE</b>	<b>23,080</b>



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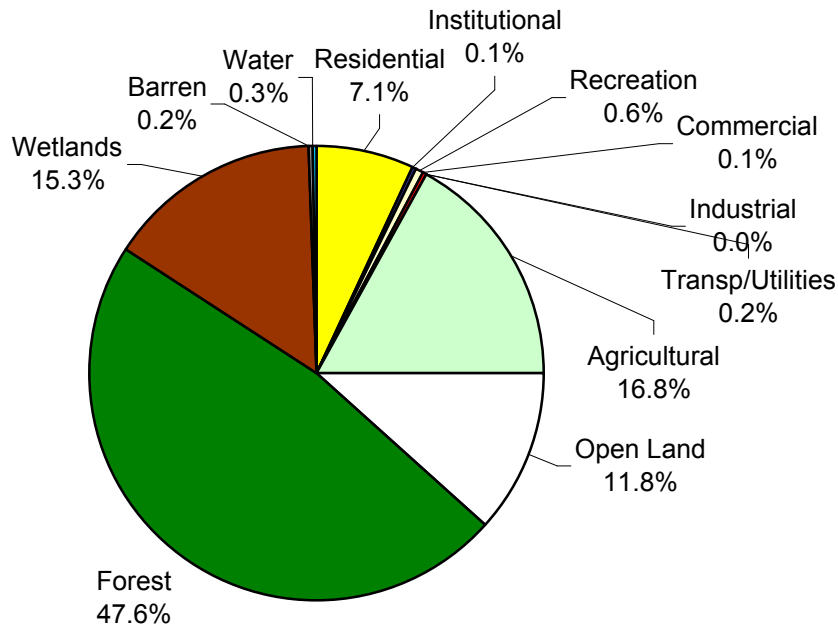
**Paradise Township Land Use/Land Cover 2010**

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	2,342	7.1%	<b>Residential</b>	<b>2,342</b>
Institutional	37	0.1%	<i>Single Family/Duplex Residential</i>	2,342
Recreation	213	0.6%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	46	0.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	52	0.2%	<i>Group/Transient Quarters</i>	0
Agricultural	5,584	16.8%	<b>Institutional</b>	<b>37</b>
Open Land	3,907	11.8%	<b>Recreation</b>	<b>213</b>
Forest	15,781	47.6%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	5,071	15.3%	<i>Open Land Recreation</i>	213
Barren	61	0.2%	<b>Commercial</b>	<b>46</b>
Water	94	0.3%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>33,188</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>52</b>
			<b>Agricultural</b>	<b>5,584</b>
			<i>Cropland</i>	5,369
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	7
			<i>Permanent Pasture Lands</i>	208
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>3,907</b>
			<b>Forest</b>	<b>15,781</b>
			<i>Broadleaved Forest</i>	5,958
			<i>Coniferous Forest</i>	7,548
			<i>Mixed Conifer/Broadleaved Forest</i>	2,275
			<b>Wetlands</b>	<b>5,071</b>
			<i>Wooded Wetlands</i>	4,154
			<i>Non-Wooded Wetlands</i>	917
			<b>Barren</b>	<b>61</b>
			<i>Beach/Riverbank</i>	0
			<i>Sand Dune/Exposed Bluff</i>	18
			<i>Extractive</i>	43
			<b>Water</b>	<b>94</b>
			<b>TOTAL ACREAGE</b>	<b>33,188</b>



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**Peninsula Township Land Use/Land Cover 2010**

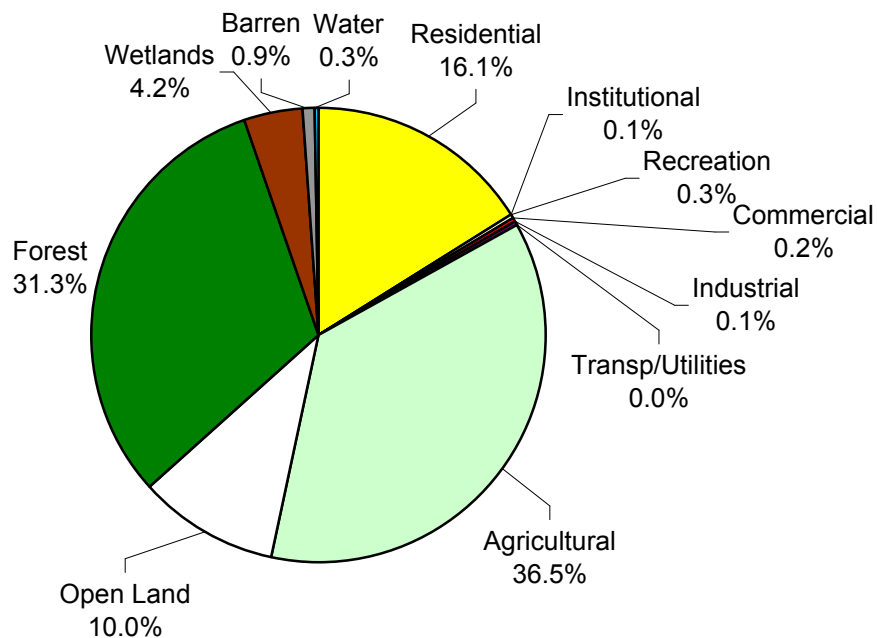
Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	2,876	16.1%	<b>Residential</b>	<b>2,876</b>
Institutional	23	0.1%	<i>Single Family/Duplex Residential</i>	2,870
Recreation	55	0.3%	<i>Multiple Family Residential (Low Rise)</i>	6
Commercial	43	0.2%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	17	0.1%	<i>Manufactured Home Park</i>	0
Transp/Utilities	4	0.0%	<i>Group/Transient Quarters</i>	0
Agricultural	6,529	36.5%	<b>Institutional</b>	<b>23</b>
Open Land	1,796	10.0%	<b>Recreation</b>	<b>55</b>
Forest	5,598	31.3%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	746	4.2%	<i>Open Land Recreation</i>	55
Barren	155	0.9%	<b>Commercial</b>	<b>43</b>
Water	50	0.3%	<b>Industrial</b>	<b>17</b>
<b>TOTAL ACREAGE</b>	<b>17,892</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>4</b>

<b>Agricultural</b>	<b>6,529</b>
<i>Cropland</i>	1,865
<i>Orchards/Vineyards</i>	4,591
<i>Confined Feeding Operations</i>	0
<i>Permanent Pasture Lands</i>	44
<i>Other Agricultural Lands</i>	29
<b>Grass/Shrublands</b>	<b>1,796</b>
<b>Forest</b>	<b>5,598</b>
<i>Broadleaved Forest</i>	3,590
<i>Coniferous Forest</i>	976
<i>Mixed Conifer/Broadleaved Forest</i>	1,032
<b>Wetlands</b>	<b>746</b>
<i>Wooded Wetlands</i>	618
<i>Non-Wooded Wetlands</i>	128
<b>Barren</b>	<b>155</b>
<i>Beach/Riverbank</i>	147
<i>Sand Dune/Exposed Bluff</i>	0
<i>Extractive</i>	8
<b>Water</b>	<b>50</b>
<b>TOTAL ACREAGE</b>	<b>17,892</b>



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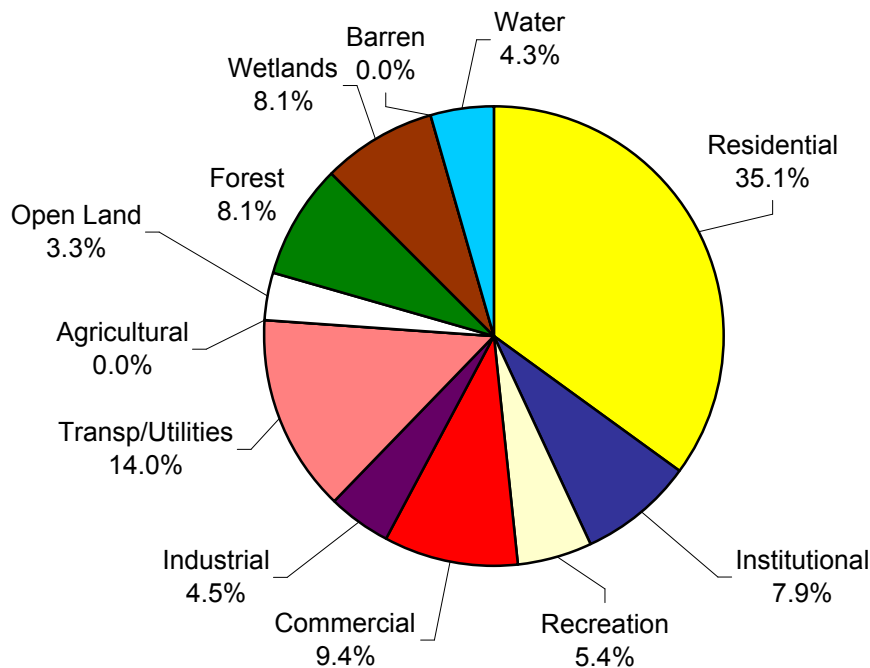
### Traverse City Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	1,859	35.1%	<b>Residential</b>	<b>1,859</b>
Institutional	418	7.9%	<i>Single Family/Duplex Residential</i>	1,712
Recreation	284	5.4%	<i>Multiple Family Residential (Low Rise)</i>	130
Commercial	498	9.4%	<i>Multiple Family Residential (Med/Hi Rise)</i>	14
Industrial	240	4.5%	<i>Manufactured Home Park</i>	1
Transp/Utilities	741	14.0%	<i>Group/Transient Quarters</i>	2
Agricultural	0	0.0%	<b>Institutional</b>	<b>418</b>
Open Land	175	3.3%	<b>Recreation</b>	<b>284</b>
Forest	427	8.1%	<i>Indoor Cultural/Assembly/Recreation</i>	22
Wetlands	428	8.1%	<i>Open Land Recreation</i>	262
Barren	2	0.0%	<b>Commercial</b>	<b>498</b>
Water	229	4.3%	<b>Industrial</b>	<b>240</b>
<b>TOTAL ACREAGE</b>	<b>5,301</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>741</b>
			<b>Agricultural</b>	<b>0</b>
			<i>Cropland</i>	0
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	0
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>175</b>
			<b>Forest</b>	<b>427</b>
			<i>Broadleaved Forest</i>	293
			<i>Coniferous Forest</i>	69
			<i>Mixed Conifer/Broadleaved Forest</i>	65
			<b>Wetlands</b>	<b>428</b>
			<i>Wooded Wetlands</i>	264
			<i>Non-Wooded Wetlands</i>	164
			<b>Barren</b>	<b>2</b>
			<i>Beach/Riverbank</i>	2
			<i>Sand Dune/Exposed Bluff</i>	0
			<i>Extractive</i>	0
			<b>Water</b>	<b>229</b>
			<b>TOTAL ACREAGE</b>	<b>5,301</b>



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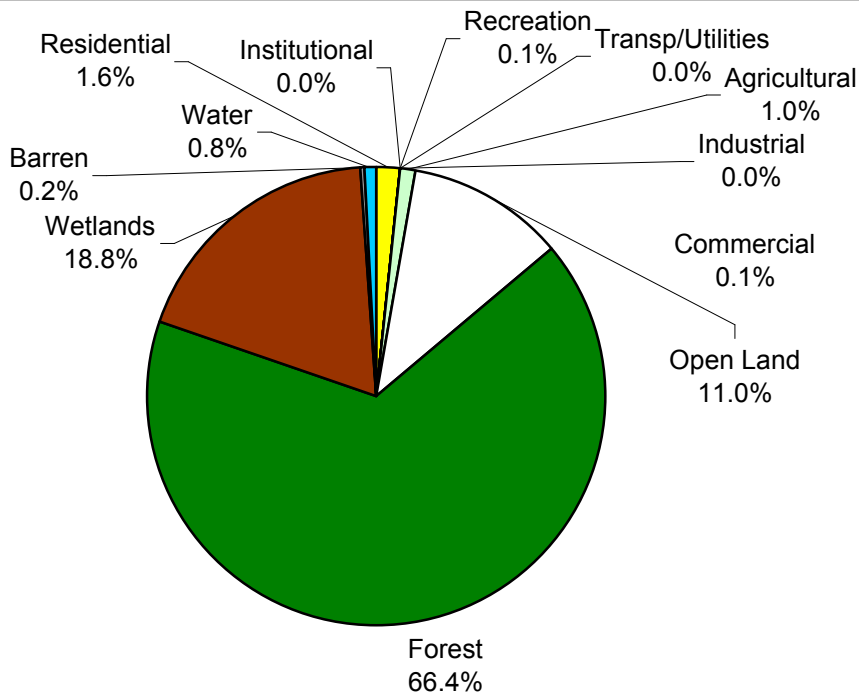
# Union Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	368	1.6%	<b>Residential</b>	<b>368</b>
Institutional	2	0.0%	<i>Single Family/Duplex Residential</i>	368
Recreation	13	0.1%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	15	0.1%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	0	0.0%	<i>Manufactured Home Park</i>	0
Transp/Utilities	4	0.0%	<i>Group/Transient Quarters</i>	0
Agricultural	230	1.0%	<b>Institutional</b>	<b>2</b>
Open Land	2,547	11.0%	<b>Recreation</b>	<b>13</b>
Forest	15,356	66.4%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	4,334	18.8%	<i>Open Land Recreation</i>	13
Barren	53	0.2%	<b>Commercial</b>	<b>15</b>
Water	192	0.8%	<b>Industrial</b>	<b>0</b>
<b>TOTAL ACREAGE</b>	<b>23,114</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>4</b>
			<b>Agricultural</b>	<b>230</b>
			<i>Cropland</i>	170
			<i>Orchards/Vineyards</i>	0
			<i>Confined Feeding Operations</i>	0
			<i>Permanent Pasture Lands</i>	60
			<i>Other Agricultural Lands</i>	0
			<b>Grass/Shrublands</b>	<b>2,547</b>
			<b>Forest</b>	<b>15,356</b>
			<i>Broadleaved Forest</i>	2,702
			<i>Coniferous Forest</i>	7,294
			<i>Mixed Conifer/Broadleaved Forest</i>	5,360
			<b>Wetlands</b>	<b>4,334</b>
			<i>Wooded Wetlands</i>	3,713
			<i>Non-Wooded Wetlands</i>	621
			<b>Barren</b>	<b>53</b>
			<i>Beach/Riverbank</i>	0
			<i>Sand Dune/Exposed Bluff</i>	15
			<i>Extractive</i>	38
			<b>Water</b>	<b>192</b>
			<b>TOTAL ACREAGE</b>	<b>23,114</b>



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# Whitewater Township Land Use/Land Cover 2010

Grand Traverse County, Michigan

CLASSIFICATION	ACRES	PERCENT	SUB CLASSIFICATION	ACRES
Residential	1,929	5.5%	<b>Residential</b>	<b>1,929</b>
Institutional	29	0.1%	<i>Single Family/Duplex Residential</i>	1,929
Recreation	38	0.1%	<i>Multiple Family Residential (Low Rise)</i>	0
Commercial	130	0.4%	<i>Multiple Family Residential (Med/Hi Rise)</i>	0
Industrial	41	0.1%	<i>Manufactured Home Park</i>	0
Transp/Utilities	155	0.4%	<i>Group/Transient Quarters</i>	0
Agricultural	3,154	9.0%	<b>Institutional</b>	<b>29</b>
Open Land	3,383	9.7%	<b>Recreation</b>	<b>38</b>
Forest	18,584	53.2%	<i>Indoor Cultural/Assembly/Recreation</i>	0
Wetlands	3,583	10.3%	<i>Open Land Recreation</i>	38
Barren	164	0.5%	<b>Commercial</b>	<b>130</b>
Water	3,752	10.7%	<b>Industrial</b>	<b>41</b>
<b>TOTAL ACREAGE</b>	<b>34,942</b>	<b>100.0%</b>	<b>Transportation/Communication/Utilities</b>	<b>155</b>

<b>Agricultural</b>	<b>3,154</b>
<i>Cropland</i>	1,328
<i>Orchards/Vineyards</i>	1,792
<i>Confined Feeding Operations</i>	0
<i>Permanent Pasture Lands</i>	34
<i>Other Agricultural Lands</i>	0
<b>Grass/Shrublands</b>	<b>3,383</b>
<b>Forest</b>	<b>18,584</b>
<i>Broadleaved Forest</i>	6,870
<i>Coniferous Forest</i>	8,008
<i>Mixed Conifer/Broadleaved Forest</i>	3,706
<b>Wetlands</b>	<b>3,583</b>
<i>Wooded Wetlands</i>	3,173
<i>Non-Wooded Wetlands</i>	410
<b>Barren</b>	<b>164</b>
<i>Beach/Riverbank</i>	7
<i>Sand Dune/Exposed Bluff</i>	114
<i>Extractive</i>	43
<b>Water</b>	<b>3,752</b>
<b>TOTAL ACREAGE</b>	<b>34,942</b>



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