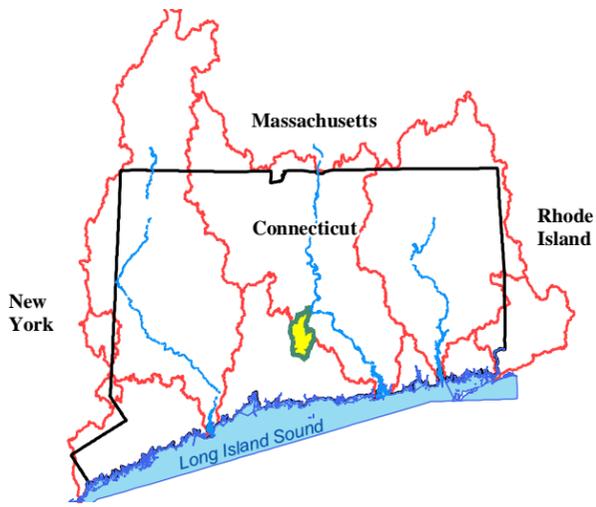


MAP 14: POTENTIAL FOR RUNOFF BASED ON SOIL PROPERTIES Coginchaug River Watershed



Runoff Potential Classes as a Percentage of the Watershed		
Runoff Potential		Total
Negligible, Very Low, Low	acres	10,539.90
	Percent of watershed	42.9%
Low*	acres	92.35
	Percent of watershed	0.4%
Medium	acres	10,471.30
	Percent of watershed	42.6%
Medium*	acres	238.95
	Percent of watershed	1.0%
High, Very High	acres	3,249.32
	Percent of watershed	13.2%
Total Acres		24,591.83

Runoff Potential Classes as a Percentage of Analysis Area			
Analysis Area	Runoff Potential	Total acres	Percent of Analysis Area
AA-1	Negligible, Very Low, Low	1,642.04	39.4%
	Low*	18.73	0.4%
	Medium	1,794.87	43.1%
	Medium*	212.62	5.1%
	High, Very High	494.51	11.9%
AA-1 Total		4,162.76	
AA-2	Negligible, Very Low, Low	1,622.53	35.3%
	Low*	73.62	1.6%
	Medium	2,508.41	54.6%
	Medium*	26.34	0.6%
	High, Very High	366.30	8.0%
AA-2 Total		4,597.20	
AA-3	Negligible, Very Low, Low	5,973.87	45.9%
	Medium	5,543.80	42.6%
	High, Very High	1,501.30	11.5%
AA-3 Total		13,018.97	
AA-4	Negligible, Very Low, Low	1,301.46	46.3%
	Medium	624.23	22.2%
	High, Very High	887.22	31.5%
AA-4 Total		2,812.91	
Grand Total		24,591.83	

Soils Interpretation: Runoff Potentials

Runoff Potentials

- Negligible; Very Low; Low
- Low *
- Medium
- Medium *
- High; Very High
- Water

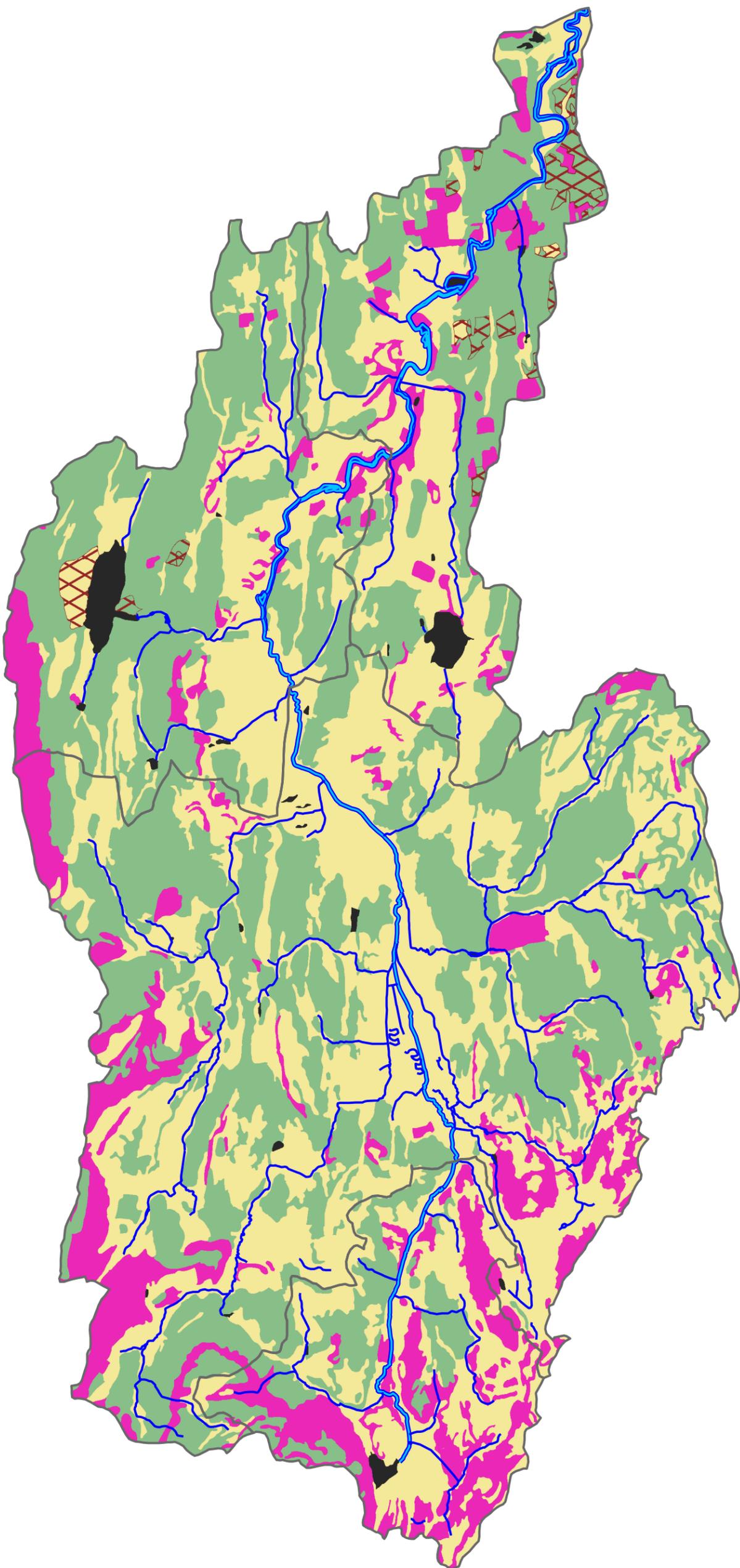
Analysis Areas

- Boundary

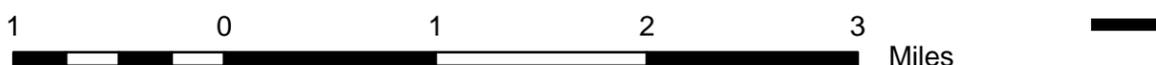
Streams

- Coginchaug River
- Other Streams

Low * and Medium * : About 35% of these mapunits may be in Urban Land, and have a Very High Runoff Potential



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**MAP 15: POTENTIAL FOR RUNOFF BASED ON LAND USE/
LAND COVER CLASSIFICATION
Coginchaug River Watershed**



Interpretation of Land Use/Land Cover

Runoff Potentials

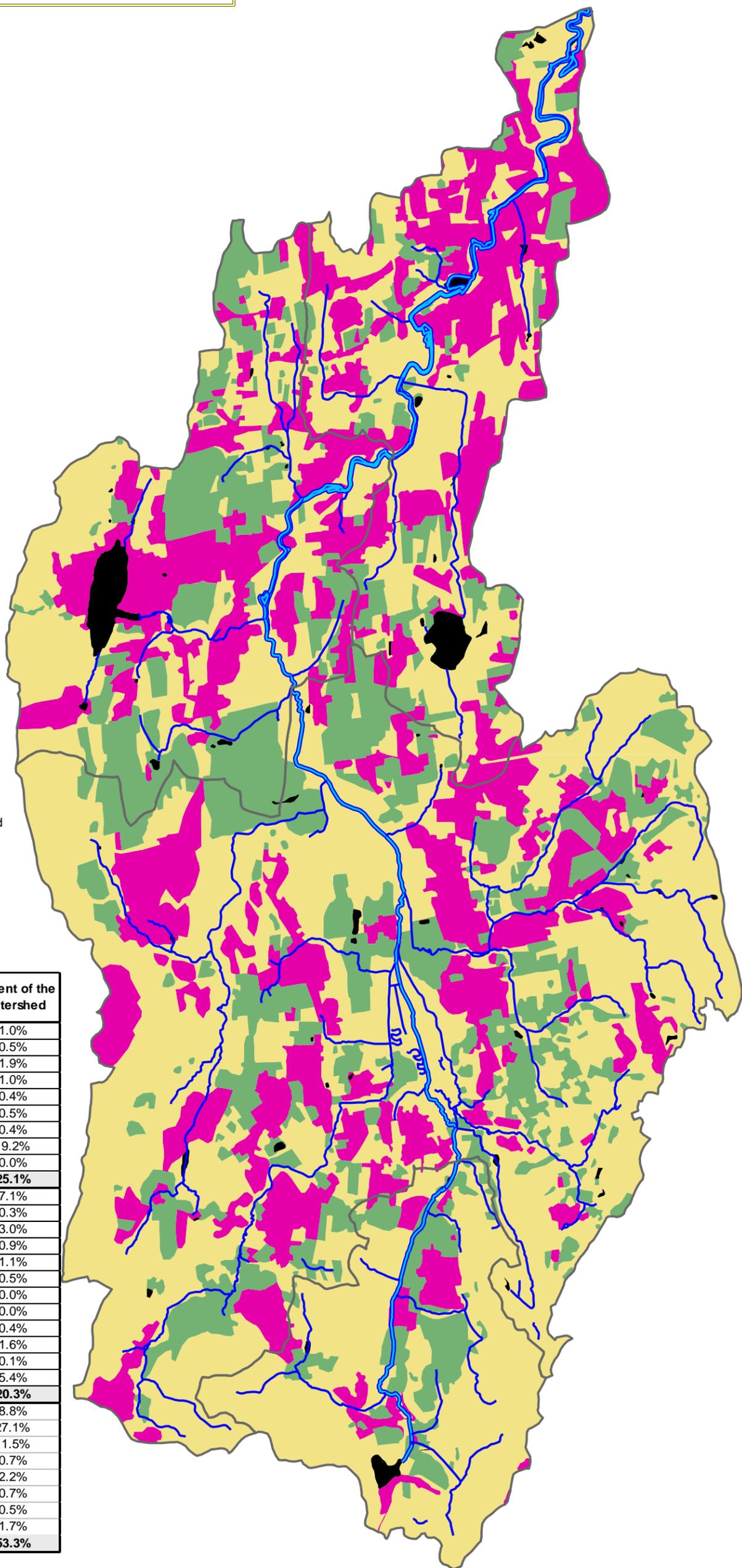
- Negligible; Very Low; Low
- Moderate
- High; Very High
- Water

Analysis Areas

- Boundary

Streams

- Coginchaug River
- Other Streams



This map was developed using the Land Use/ Land Cover classes delineated by CT NRCS. The classes were grouped based upon their perviousness. Low perviousness correlates to high potential for runoff; high perviousness correlates to low potential for runoff.

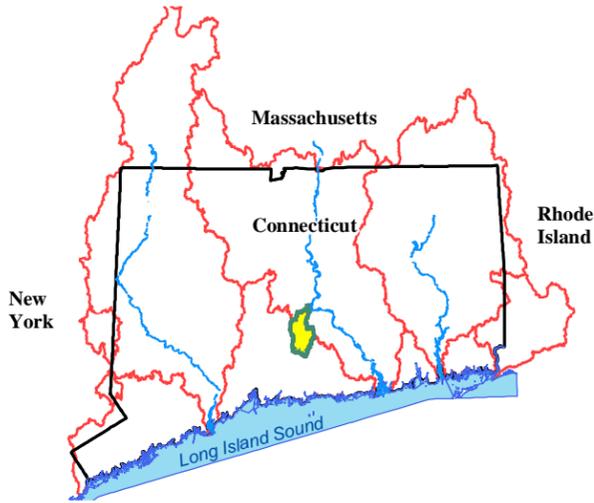
Land Use / Land Cover Runoff Potential	Label	Acres	Percent of the Watershed
High Potential for Runoff	Agriculture: farmstead	240.0	1.0%
	Barren: mines/quarries	127.6	0.5%
	Developed: commercial	484.9	1.9%
	Developed: industrial	257.2	1.0%
	Developed: mixed	95.4	0.4%
	Developed: other-ball fields	127.7	0.5%
	Developed: other-compact grasses	103.7	0.4%
	Developed: residential-high density	4,798.0	19.2%
	Developed: transportation	11.7	0.0%
Total		6,246.2	25.1%
Moderate Potential for Runoff	Agriculture: cultivated	1,782.3	7.1%
	Agriculture: pasture-grazed	65.4	0.3%
	Agriculture: non-cultivated	753.9	3.0%
	Agriculture: orchard	216.3	0.9%
	Agriculture: pasture-idle	264.3	1.1%
	Agriculture: nursery	124.7	0.5%
	Barren: beaches	1.7	0.0%
	Barren: rock	6.7	0.0%
	Developed: other-cemetery	93.8	0.4%
	Developed: other-golf courses	392.8	1.6%
	Developed: other-landfill	23.2	0.1%
	Developed: residential-low density	1,343.2	5.4%
Total		5,068.2	20.3%
Low Potential for Runoff	Forested: coniferous	2,196.0	8.8%
	Forested: deciduous	6,767.0	27.1%
	Forested: mixed	2,862.4	11.5%
	Other: herbaceous	183.8	0.7%
	Other: shrub	539.2	2.2%
	Other: utility row	173.8	0.7%
	Transitional: partial canopy	132.6	0.5%
	Transitional: mixed herbaceous	435.5	1.7%
Total		13,290.2	53.3%



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**MAP 16: POTENTIAL FOR RUNOFF BASED THE COMBINATION OF SOIL PROPERTIES & LAND USE/ LAND COVER CLASSIFICATION
Coginchaug River Watershed**



Runoff Potential Based on Soil Properties	Runoff Potential Based on Land Use/ Land Cover Groups	Acres
Very high	High	489.1
	Medium	99.3
	Low	1,483.9
High	High	84.5
	Medium	127.6
	Low	961.9
Medium	High	3,606.8
	Medium	2,459.4
	Low	4,632.5
Low - Negligible	High	2,054.0
	Medium	2,374.7
	Low	6,152.2
Mapped as water		401.6
Grand Total		24,927.6

Land Use/ Land Cover Groups

High Potential for Runoff: ballfields, compacted grass, high density residential, transportation, commercial areas, industrial areas, farmsteads, mixed-development, mines/quarries

Moderate Potential for Runoff: golf courses, low density residential, cemeteries, landfills, beaches, bare rock, agricultural areas (except farmsteads)

Low Potential for Runoff: forest lands, transitional areas, other areas

Soil Runoff Classes

Soil runoff classes are generated based on the slope and saturated hydraulic conductivity of a soil map unit. Slope refers to the overall steepness of the soil map unit. The saturated hydraulic conductivity is a measure of the rate of water movement in the soil.

Intersection of Soils and LULC

Soil Potential: Very High

- LULC Potential: High
- LULC Potential: Medium
- LULC Potential: Low

Soil Potential: Medium

- LULC Potential: High
- LULC Potential: Medium
- LULC Potential: Low

Soil Potential: High

- LULC Potential: High
- LULC Potential: Medium
- LULC Potential: Low

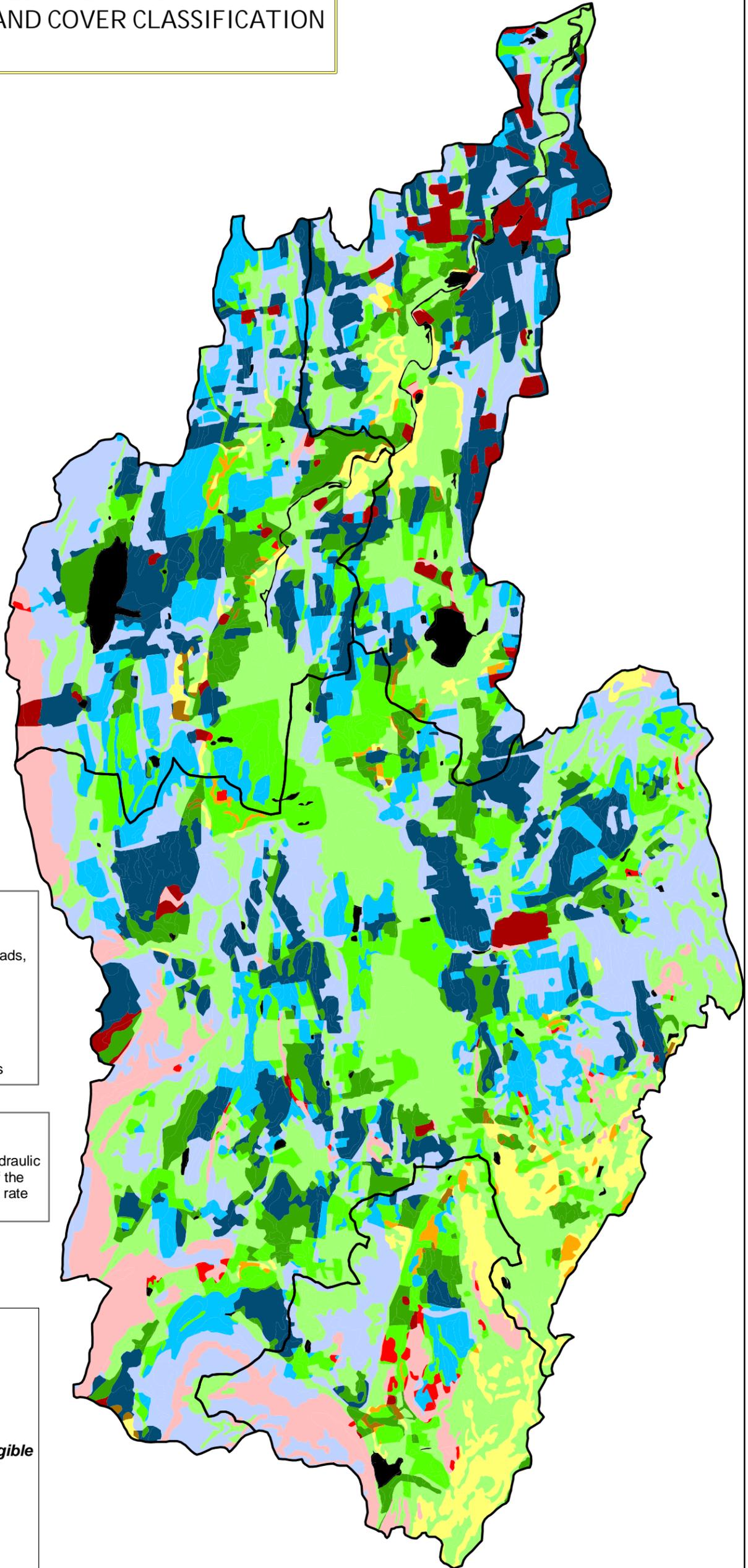
Soil Potential: Low - Negligible

- LULC Potential: High
- LULC Potential: Medium
- LULC Potential: Low

■ Mapped as Water

Analysis Areas

□ Boundary



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