

St. Lawrence Eastern Lake Ontario Partnership for Regional Invasive Species Management

SLELO-PRISM Hemlock Woolly Adelgid Survey

Winter 2019-2020 Field Survey conducted by Robert Smith and Brittney Rogers



Survey Methods and Observations

The Hemlock Woolly Adelgid (HWA) survey of the SLELO-PRISM region was conducted from November 2019 to February 2020. Several Highly Probable Areas (HPAs) within the 12 Priority Conservation Areas (PCAs) were surveyed by Brittney Rogers and Robert Smith for signs and symptoms of Hemlock Woolly Adelgid (HWA).

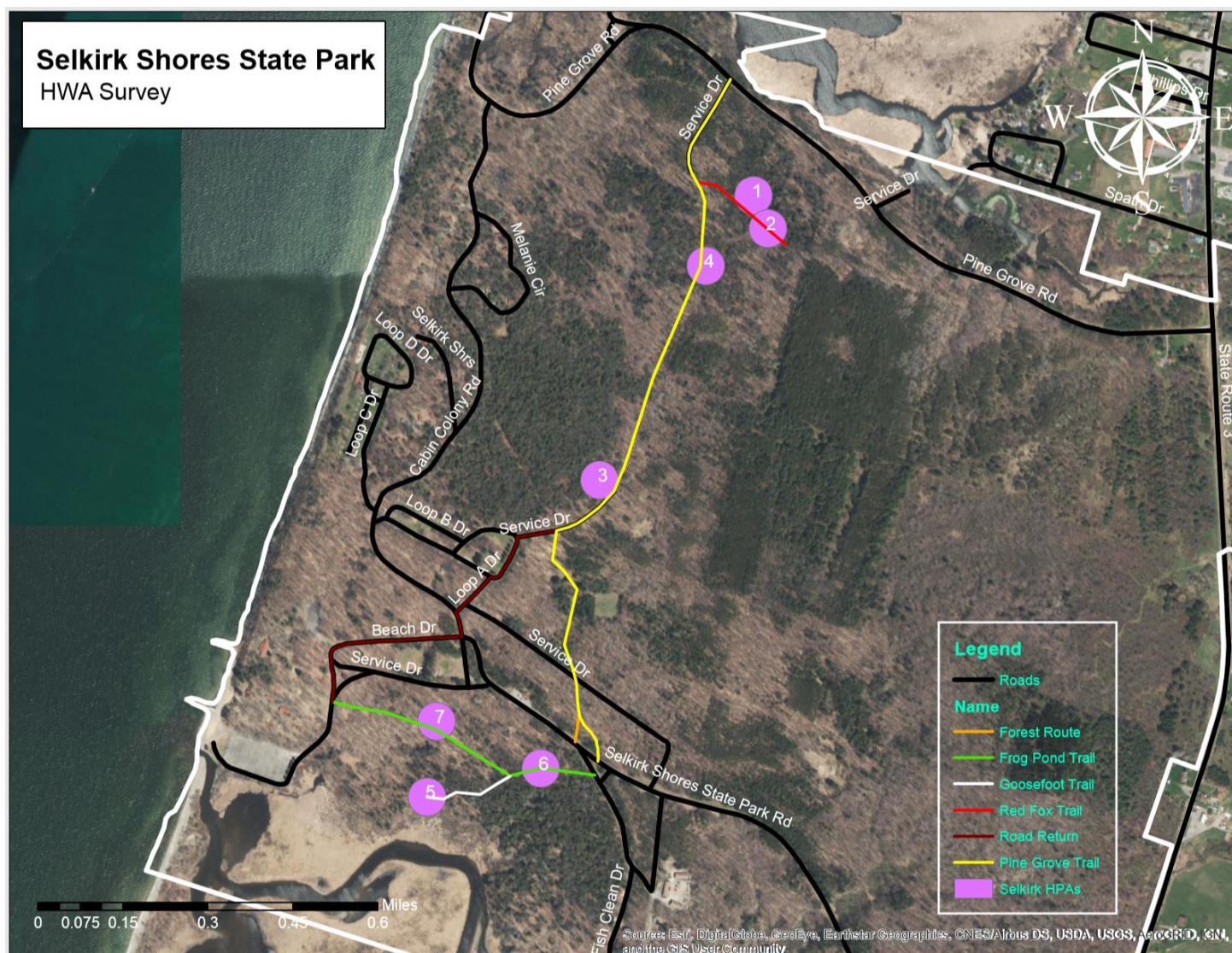
The following tables of the PCAs include the location of each HPA, age group of hemlock trees at these sites, canopy health, and whether hemlock needleminer (*Coleotechnites* spp.) or tip blight (*Sirococcus tsugae*) was found on these trees. The tables also indicate that no HWA was found at these sites. The age of the trees was divided into three groups by diameter at breast height (dbh) and are as follows: A (0-8"), B (8-16"), and C (> 16"). Canopy health was divided into three groups as follows: A (full canopy), B (some dieback in canopy), and C (major dieback in canopy). The first surveys did not include reporting of hemlock needleminer or tip blight and have asterisks in these columns to indicate this.

Be sure to also view our field season video summary on our [website](#).

Of the 57 HPA's searched, no Hemlock Woolly Adelgid were detected.

1. PCA-Selkirk Shores State Park

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Red Fox Trail	43.56243	-76.2003	C	N	*	*	A
2	Red Fox Trail	43.56168	-76.1994	B-C	N	*	*	A
3	Pine Grove Trail	43.55703	-76.2037	B-C	N	*	*	A
4	Pine Grove Trail	43.56139	-76.201	B-C	N	*	*	A
5	Goosefoot Trail	43.55117	-76.2081	B-C	N	*	*	A
6	Frog Pond Trail	43.5517	-76.2052	B-C	N	*	*	A
7	Frog Pond Trail	43.55257	-76.2079	A-B	N	*	*	A



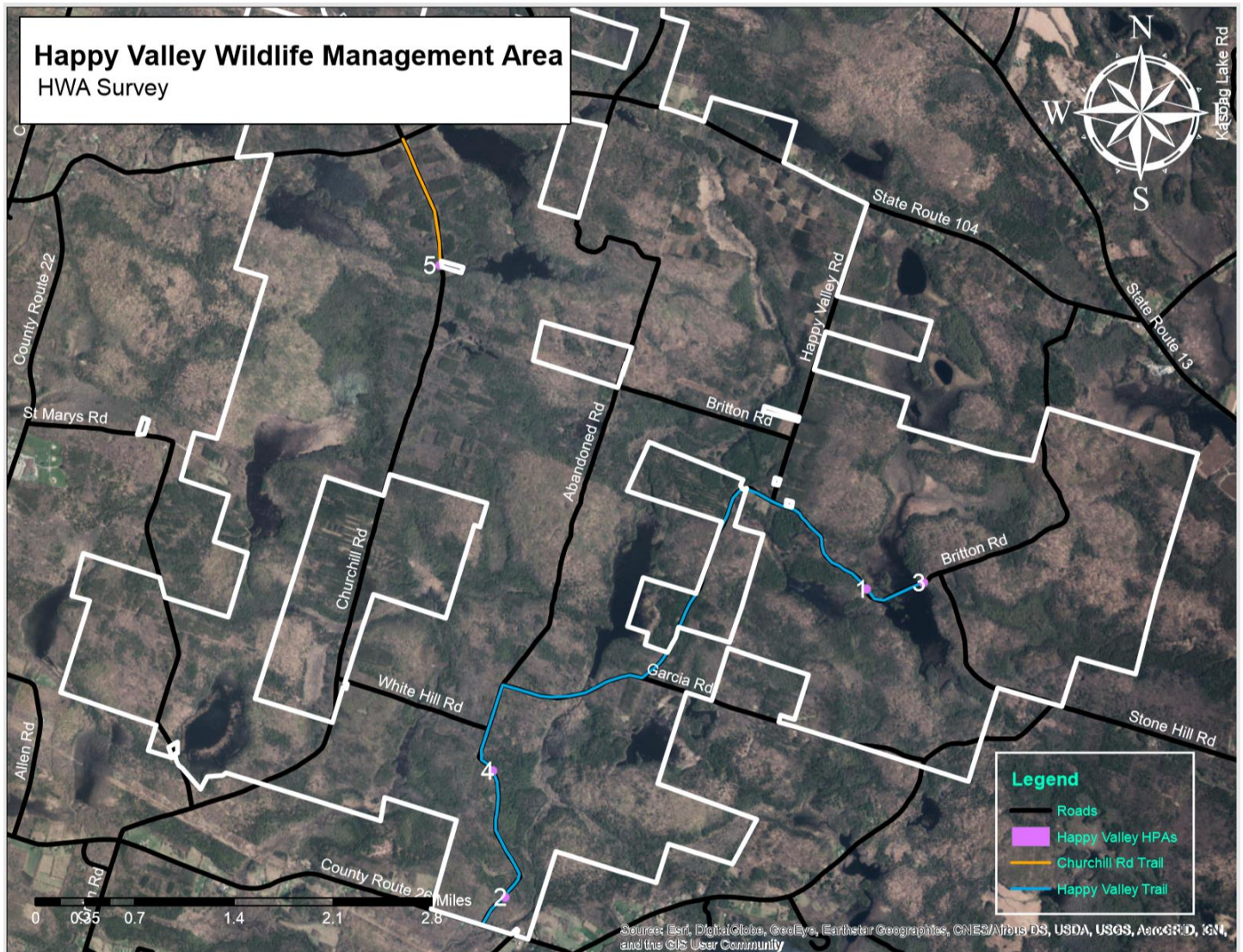
2. PCA-Mexico Point State Park

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Roops Loop	43.52245	-76.2592	A, C	N	*	*	A
2	Roops Loop	43.52174	-76.25925	A, C	N	*	*	A
3	Roops Loop	43.5206	-76.2586	A, C	N	*	*	A
4	Roops Loop	43.5198	-76.2573	C	N	*	*	A
5	Roops Loop	43.51964	-76.2562	B-C	N	*	*	A
6	Roops Loop	43.52064	-76.2568	C	N	*	*	A



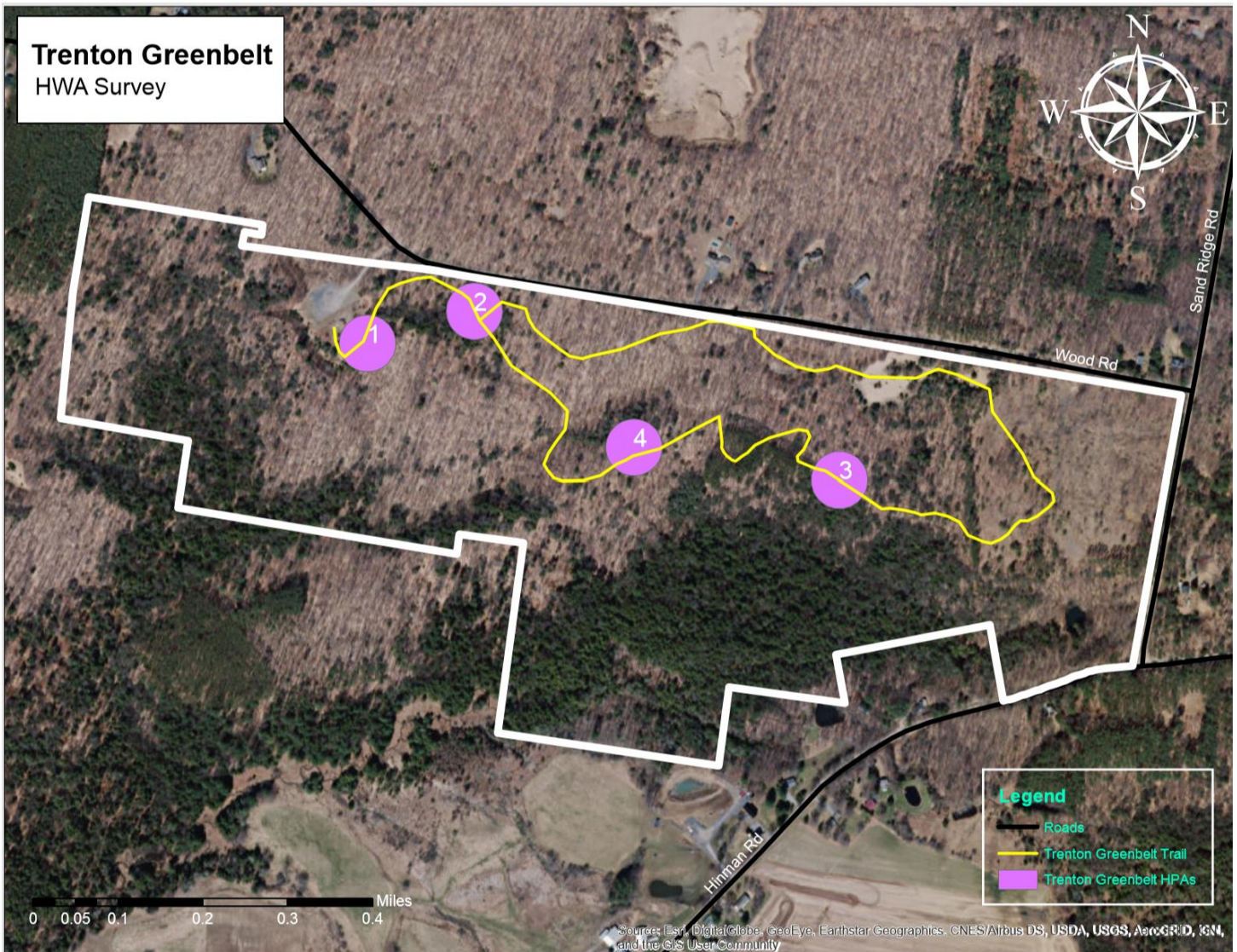
3. PCA-Happy Valley Wildlife Management Area

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Happy Valley Trail	43.43392	-75.96511	B	N	*	*	A
2	Happy Valley Trail	43.41106	-76.00191	B	N	*	*	A
3	Happy Valley Trail	43.43439	-75.95929	A	N	*	*	A
4	Happy Valley Trail	43.42044	-76.00319	A	N	*	*	A
5	Churchill Rd Trail	43.45791	-76.00859	A, C	N	*	*	A



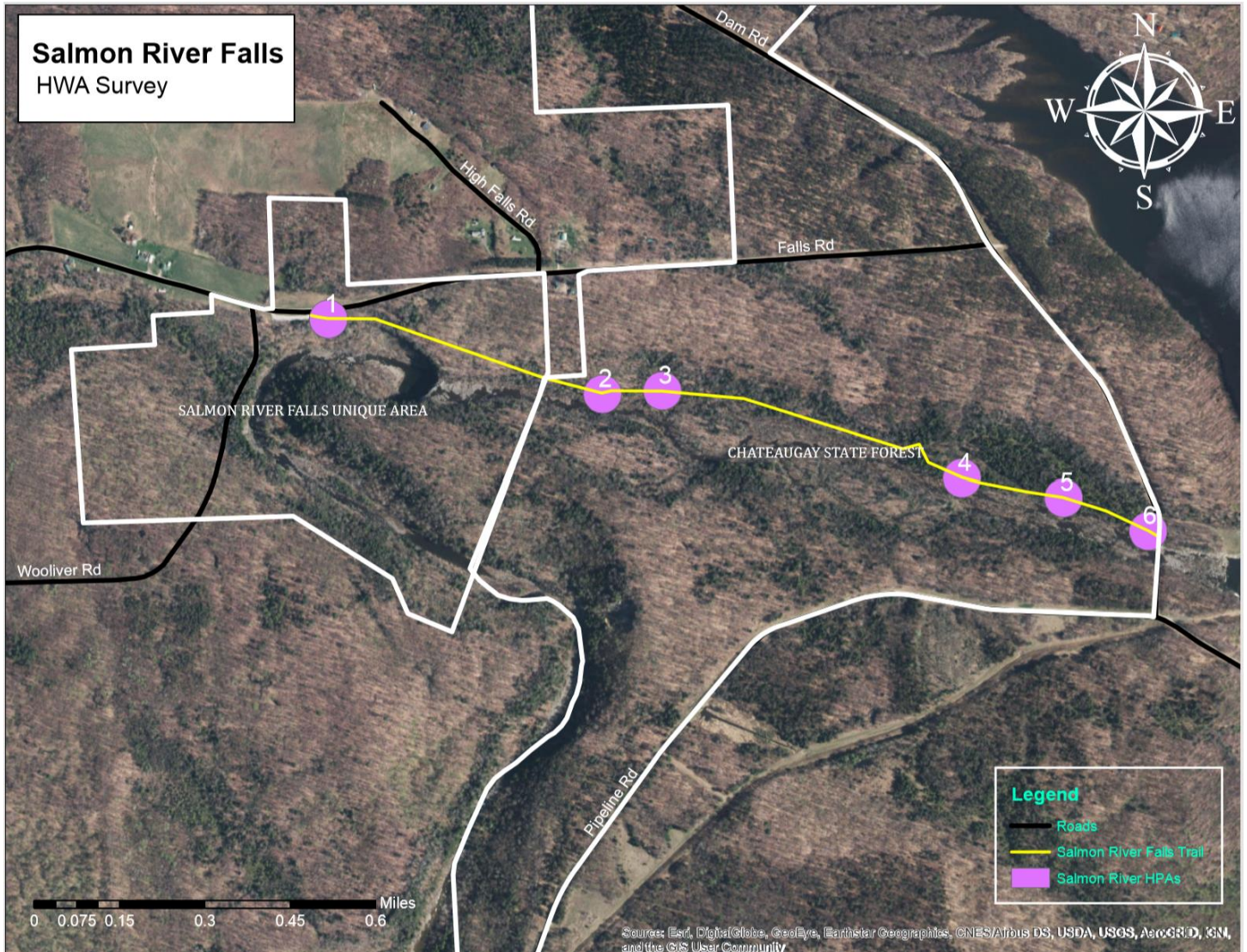
4. PCA-Trenton Greenbelt

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Trenton Greenbelt Trail	43.24519	-75.21046	B-C	N	N	Y	A
2	Trenton Greenbelt Trail	43.24559	-75.20864	B-C	N	Y	Y	A
3	Trenton Greenbelt Trail	43.2435	-75.20242	A-B	N	Y	N	A
4	Trenton Greenbelt Trail	43.2439	-75.20592	A-B	N	N	N	A



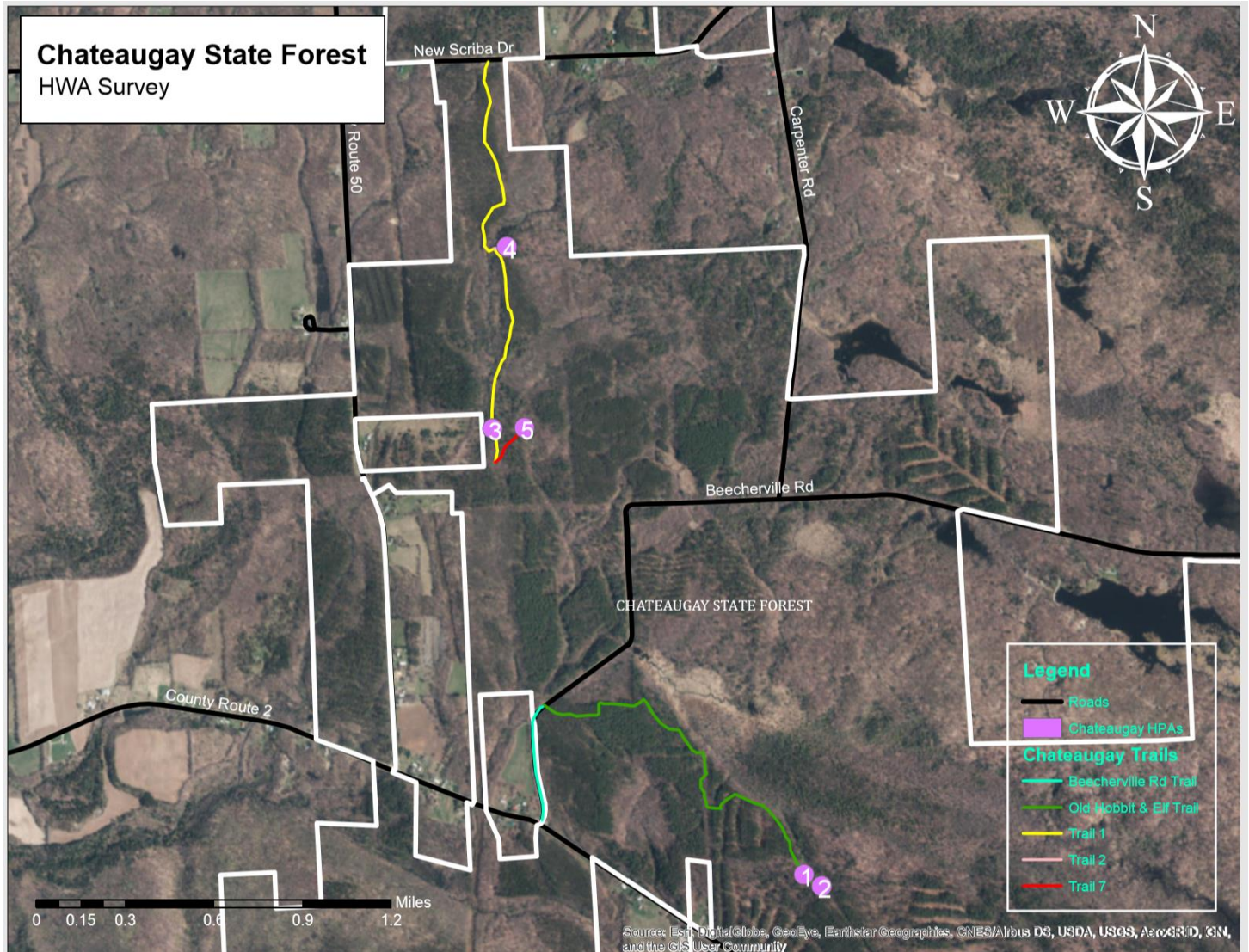
5. PCA-Salmon River Falls

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Salmon River Falls Trail	43.54902	-75.94275	B	N	Y	N	A
2	Salmon River Falls Trail	43.54764	-75.93579	A-B	N	N	N	A
3	Salmon River Falls Trail	43.5477	-75.93427	A-B	N	N	Y	A
4	Salmon River Falls Trail	43.5461	-75.92666	B-C	N	N	N	A
5	Salmon River Falls Trail	43.54574	-75.92408	B-C	N	Y	N	A
6	Salmon River Falls Trail	43.54513	-75.92193	A-B	N	Y	Y	A



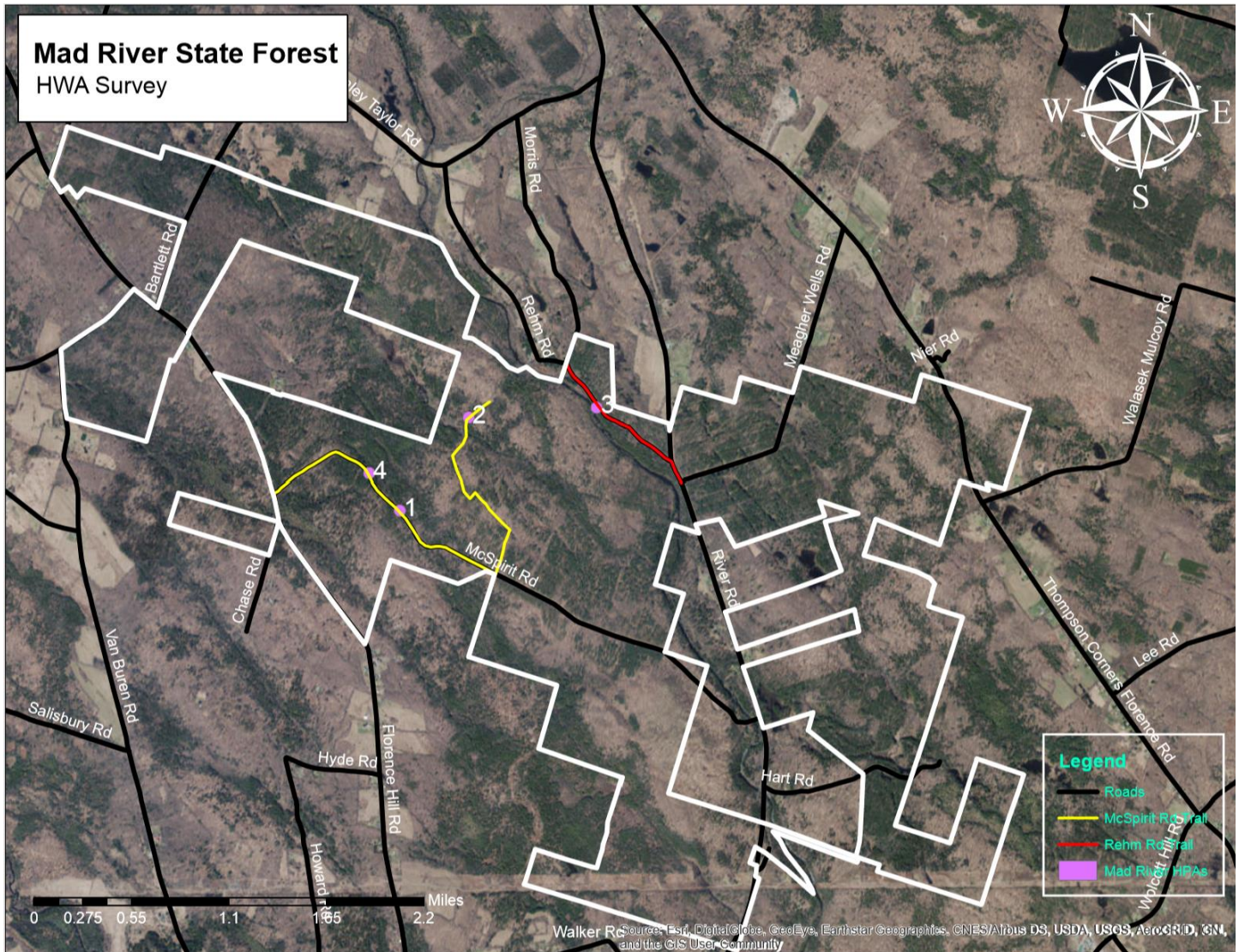
6. PCA-Chateaugay State Forest

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Old Hobbit & Elf Trail	43.57239	-75.94892	B-C	N	Y	Y	A
2	Old Hobbit & Elf Trail	43.57198	-75.94806	B	N	N	Y	A
3	Trail 1	43.58815	-75.96411	A-B	N	N	N	A
4	Trail 2	43.59459	-75.96341	A-C	N	Y	Y	A
5	Trail 7	43.58818	-75.96255	A-B	N	N	Y	A



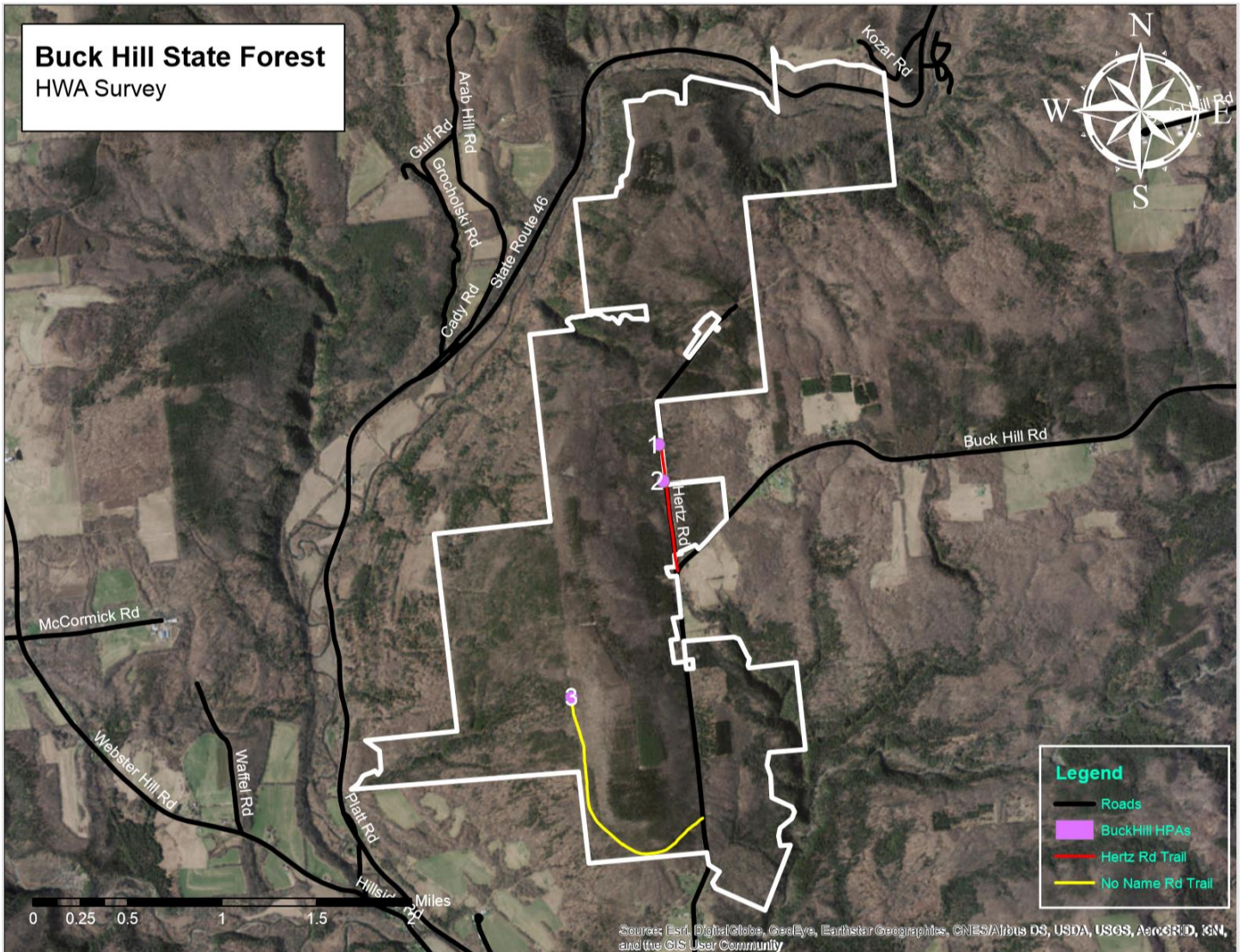
7. PCA-Mad River State Forest

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	McSprit Rd Trail	43.40336	-75.76483	C	N	*	*	A
2	McSprit Rd Trail	43.40884	-75.75922	A-B	N	*	*	A
3	Rehm Rd Trail	43.40942	-75.74877	C	N	*	*	A
4	McSprit Rd Trail	43.40554	-75.76733	C	N	*	*	A



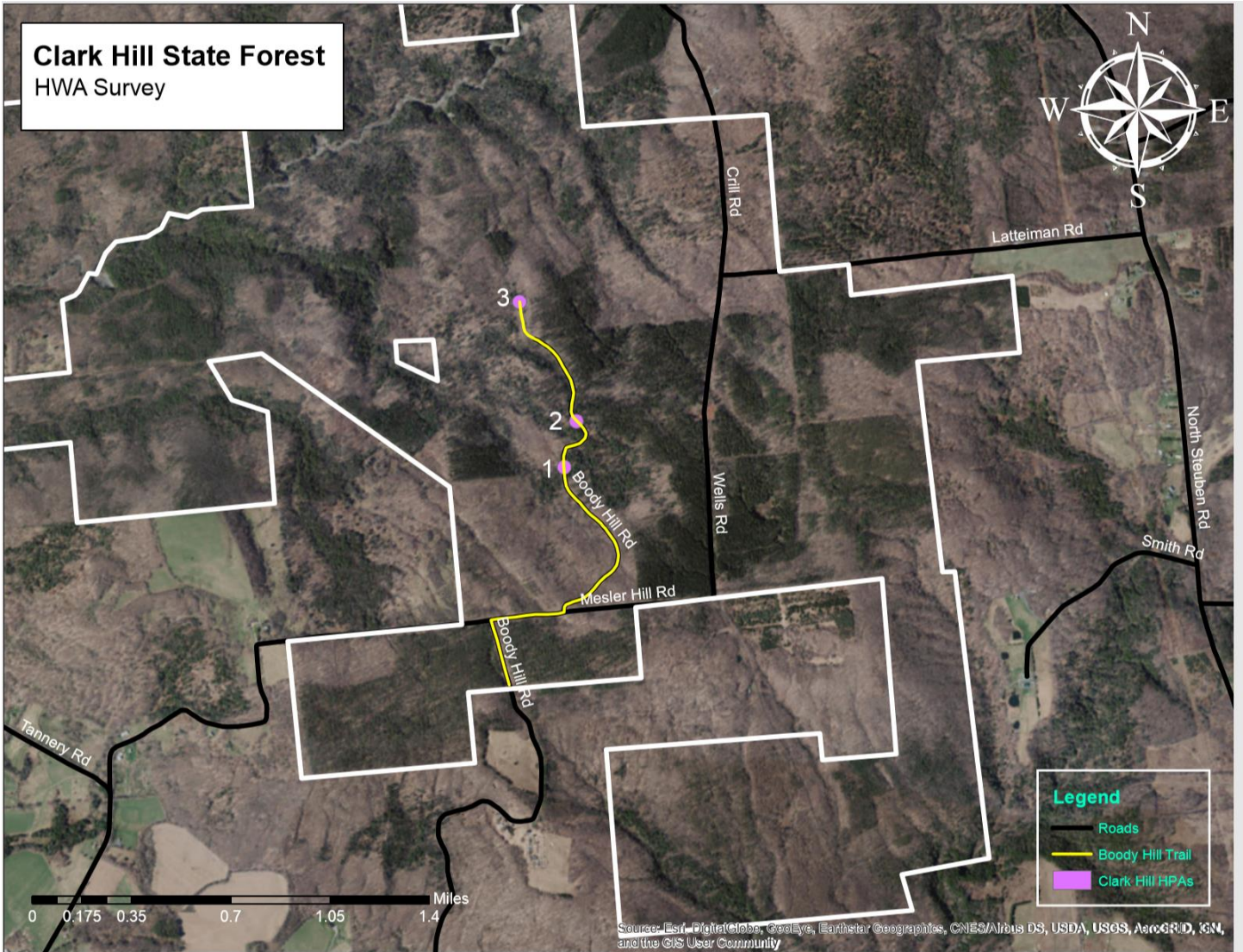
8. PCA-Buck Hill State Forest

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Hertz Rd Trail	43.38232	-75.36503	B-C	N	Y	Y	A
2	Hertz Rd Trail	43.38032	-75.36469	B-C	N	N	N	A
3	No Name Trail	43.36833	-75.37165	A-B	N	Y	Y	A



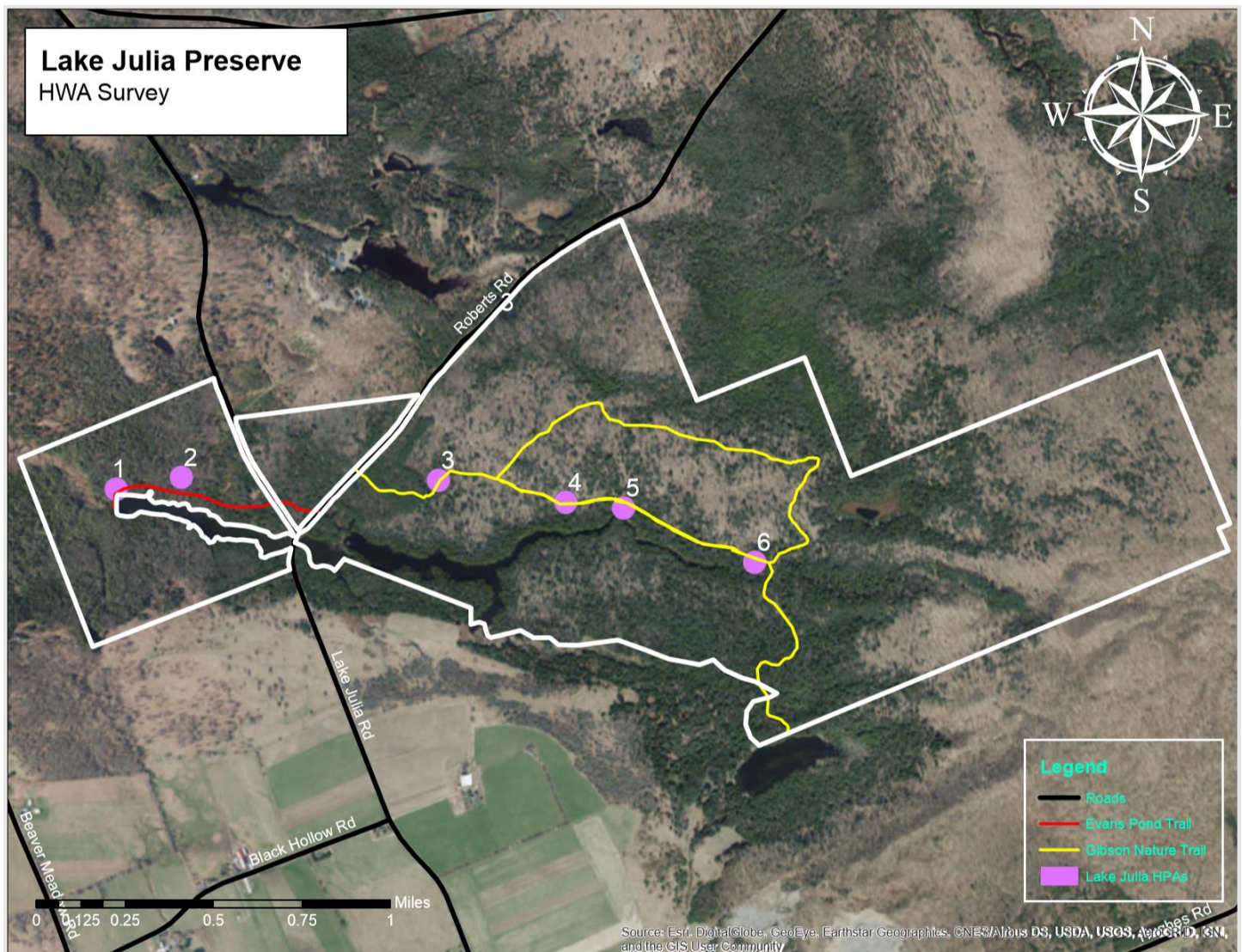
9. PCA-Clark Hill State Forest

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Boody Hill Rd Trail	43.35786	-75.311	B-C	N	Y	N	A
2	Boody Hill Rd Trail	43.35956	-75.31038	B-C	N	Y	Y	A
3	Boody Hill Rd Trail	43.36398	-75.31328	B-C	N	N	Y	A



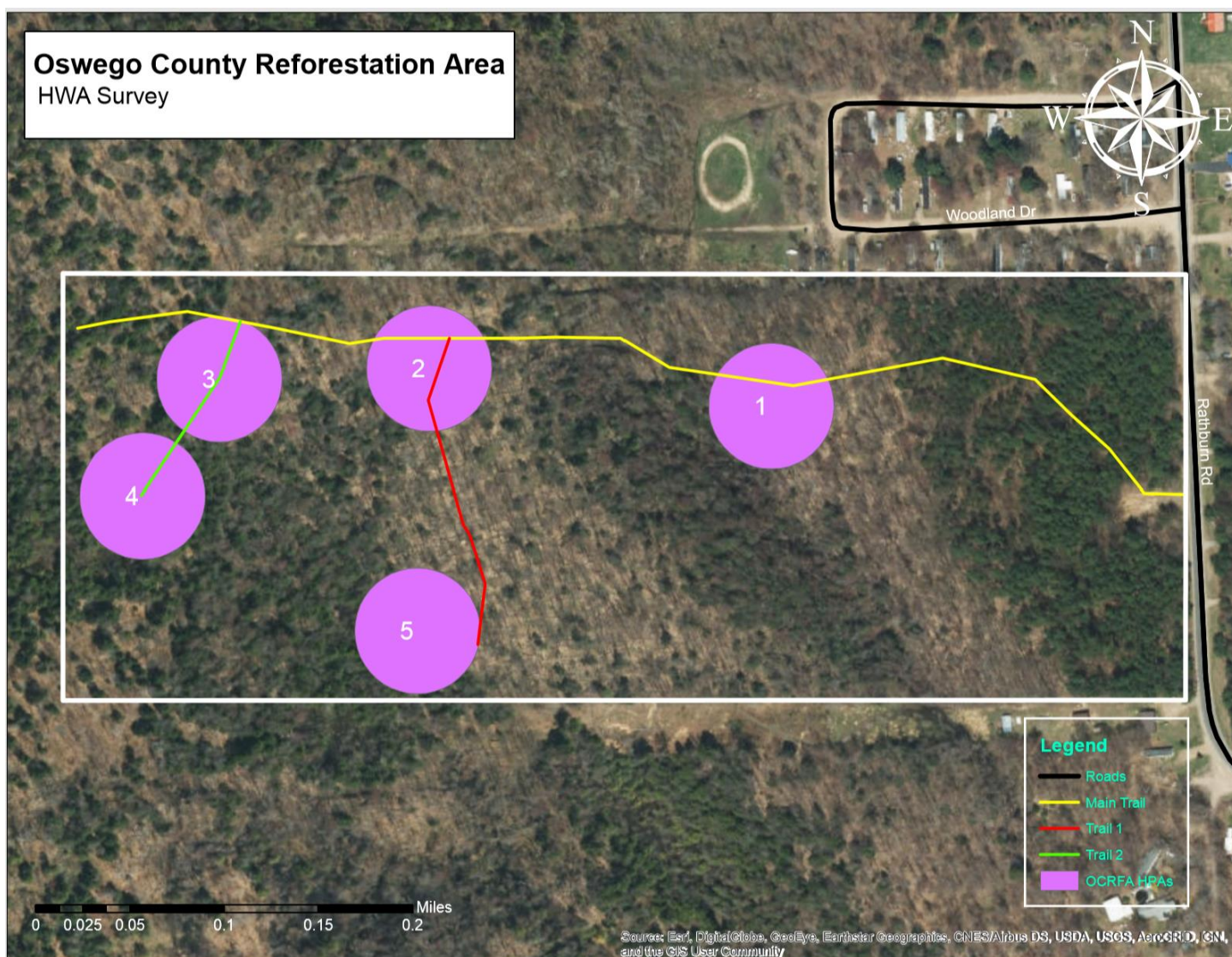
10. PCA-Lake Julia Preserve

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Evans Pond Trail	43.37188	-75.14541	A	N	*	*	A
2	Evans Pond Trail	43.37223	-75.14275	A-C	N	*	*	A
3	Gibson Nature Trail	43.37214	-75.13226	B-C	N	*	*	A
4	Gibson Nature Trail	43.37149	-75.12706	A-B	N	*	*	A
5	Gibson Nature Trail	43.37132	-75.1247	A-C	N	*	*	A
6	Gibson Nature Trail	43.36971	-75.11935	A-C	N	*	*	A



11. PCA-Oswego County Reforestation Area

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Main Trail	43.34481	-76.51298	A-C	N	Y	N	A
2	Intersection of Main Trail & Trail 1	43.34502	-76.5156	A-B	N	Y	N	A
3	Trail 2	43.34496	-76.51721	A-B	N	Y	N	A
4	Trail 2	43.34431	-76.5178	A-B	N	Y	N	A
5	Trail 1	43.34356	-76.51569	A-B	N	Y	N	A



12. PCA-Great Bear Recreation Area

HPA	Description	Latitude	Longitude	Age Group	HWA	Hemlock Needleminer	Tip Blight	Canopy Health
1	Highline Trail	43.26437	-76.35745	A-B	N	Y	N	A
2	Tom's Trail	43.26558	-76.35964	A-B	N	Y	N	A
3	Scotch Pines Trail	43.26693	-76.35988	A-B	N	Y	N	A

