

3DGeomatics Committee Acquisition Working Group

Northeast Forested Lidar Acquisition Area (LAA) Update: Expansion in the Rainy Lake Lidar Acquisition Block (LAB), Remaining Area and Funding Needs in the Lake Superior LAB

Partnerships are the cornerstone of funding the collection of high density lidar. The US Geological Survey (USGS) provides matching fund grants for partners acquiring lidar through its 3DEP BAA program (3D Elevation Program, Broad Agency Announcement).

The following provides updates and details about the entire Northeastern Forested LAA of the Minnesota State Lidar Plan. In 2019, the 3DGeomatics Committee (3DGeo) and several partner organizations successfully received a USGS 3DEP BAA grant for the Rainy Lake LAB, kicking off the first phase of the State Lidar Plan (Table 1). Recently, the USGS and NRCS contributed additional funds to expand the area of the Rainy Lake LAB, capturing part of the Lake Superior LAB (highlighted in Table 1 and shown in Figure 1). An area of 5,024 sq mi remains in the Lake Superior LAB with no partner contributions identified at this time (Table 2).

Table 1 - Rainy Lake LAB partner organizations and the relative contributions per entity. Highlighted changes reflect new contributions for the expanded area in the Rainy Lake LAB.

Partner Organization	Contribution
USGS 3DEP (up from \$2.5M)	\$3,311,440
US Forest Service	\$488,561
DNR Forestry	\$415,000
Office of School Trust Lands	\$100,000
NRCS (up from \$70K)	\$89,000
DNR Fish and Wildlife	\$50,000
DOT	\$40,000
St Louis County	\$40,000
MnGeo	\$30,000
Lake County	\$10,000
Koochiching County	\$10,000

Partners are highly encouraged to promptly express their interests in investing in high density lidar to 3DGeo. In early fall 2020, 3DGeo will apply for a 3DEP BAA for the remaining area of the Lake Superior LAB. Partners may have guaranteed or pending contributions on the application, but funding must be in place by early 2021. In addition, partners may express their lidar acquisition areas of interest by submitting to the USGS’s web mapping application, SeaSketch (contact 3DGeo for an instructions sheet).

Table 2 - Northeastern Forested LAB, broken down also by LAB, showing total cost, USGS 3DEP and partner contributions.

LAA/LAB	Total Cost (QL1, \$400/sq mi)	USGS 3DEP Contribution	Partner Contribution
Rainy Lake LAB (11,460 sq mi)	\$4,584,000	\$3,311,440	\$1,272,560
Lake Superior LAB (5,024 sq mi)	\$2,009,600	\$803,840*	(\$1,205,760)*
NE Forested LAA (16,484 sq mi)	\$6,593,600	\$4,115,280*	\$2,478,320*

*These numbers assume the average 40% contribution by USGS with a successful 3DEP application. Note: The expanded Rainy Lake Block had contribution from the USGS at an unusually high 74%.

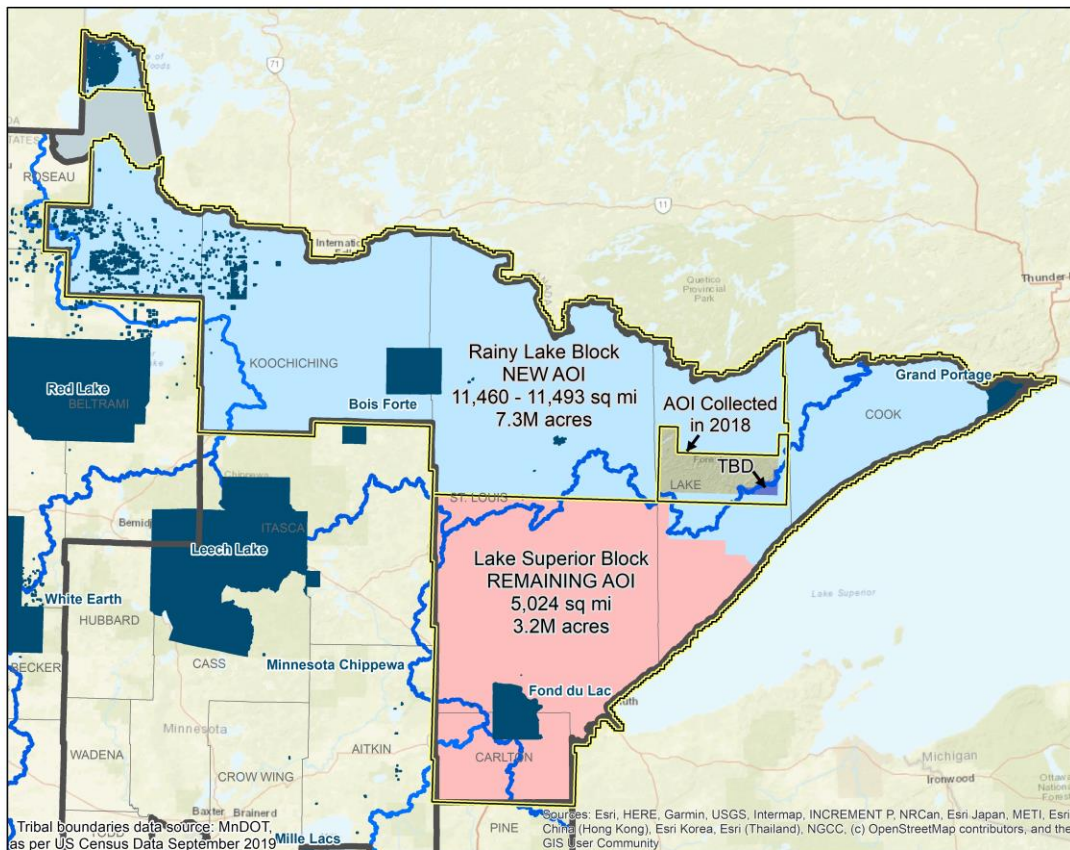


Figure 1 - Map showing the Rainy Lake Lidar Acquisition Block (LAB) and the Lake Superior LAB. The map depicts the expanded area of the Rainy Lake LAB (light blue), the remaining area of the Lake Superior LAB (pink) and Tribal Boundaries (dark blue).

At your soonest convenience, please contact 3DGeo to share your interest in, and any contribution to, the Lake Superior LAB! Thank you!

Contact the 3DGeomatics Committee at lidar@state.mn.us

Visit our website at <http://www.mngeo.state.mn.us/committee/3dgeo/>