

## Executive Summary

The STS project completed the 2016 trapping season with overall project compliance to the protocols established in 1999 and agreed upon by the cooperating agencies of the project. In summary, the database generated 63,344 trap sites within the STS project area for the 2016 season and traps were deployed at over 98% of the planned sites (62,095 traps were placed).

The trapping protocols are designed to ensure a high degree of data integrity, which is necessary because the data dictates all decisions made within the project. This year the project met or exceeded the standards on most measures. The protocol for trap location is that 90% of the traps will be placed within a defined distance (30% of the intertrap distance) of the grid node. This measure, known as the target circle, is intended to maintain the spatial integrity of the trapping. With 93.85% of traps within the target circle, the project met the target. In many cases, a choice must be made between omitting a site and placing the trap outside the target circle. It is usually better to place a trap outside the target than to omit that trap.

<b>Standard / Protocol</b>	<b>Measure</b>	<b>Target</b>	<b>2016</b>
Spatial integrity of the trapping grids	100% of the grid nodes are accounted for in the database as deleted, omitted or placed	100%	99.92
	% of the nodes with placed traps	> 95%	98.03
Trap location	% of the traps placed within a defined distance of the grid node	> 90%	93.85
Field inspections	% of the trap sites checked	> 10%	13.72
	% of the checked sites that passed	NA	99.14
Trap placement and removal dates	Evaluated against model predictions based on current year weather data	NA	99.74
Compliance with decision algorithm recommendations	DA recommends treatments	NA	78.57
	DA recommends delimits	NA	97.37

With the implementation of newer GPS technology and the goal of implementing the “trapper gadget” project wide in the future, the trapping data are becoming less of an issue each trapping season. The numbers in this report indicate that there is essentially no risk that faulty decisions will be made based upon data quality. This is particularly gratifying in a project that includes multiple government agencies covering a broad geographic range, and is the result of excellent cooperation among all parties involved.