

# Deep Tillage: Table 1 Summary of Effects to Atlantic Salmon

## Practice Information

Deep tillage is conducted on land having adverse soil conditions that inhibit plant growth, such as compacted layers formed by field operations, restrictive layers such as claypans, overwash, or deposits from wind and water erosion or flooding, or contaminants in the root zone.

The soil moisture content is very important factor to consider when performing deep tillage operations. Soil moisture should be less than 30 percent of field capacity at the maximum depth of tillage.



Network Diagram Effect Number	Life cycle affected:	Effect on Essential Fish Habitat (EFH):	Essential Fish Habitat Conservation Measures (CMs):	Effect on EFH (with CMs):
D.1 Increase in water infiltration	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
D.7 Increase in the adsorption of pesticides	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
I.1 Decrease in runoff	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect

## Deep Tillage: Table 1 Summary of Effects to Atlantic Salmon

<b>Network Diagram Effect Number</b>	<b>Life cycle affected:</b>	<b>Effect on Essential Fish Habitat (EFH):</b>	<b>Essential Fish Habitat Conservation Measures (CMs):</b>	<b>Effect on EFH (with CMs):</b>
I.2 Decrease in sheet and rill erosion	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
I.4 Increase in the quality of surface waters and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	None	None	No adverse effect
I.6 Increase and decrease in contaminants, pathogens, and sediments to receiving waters	Eggs & Larvae, Juveniles, Adults, Spawning Adults	Long-term potential for groundwater pollution from applied agrichemical on coarse textured or shallow soils.	Groundwater Pollution Control Measures: Nutrient Management and Pest Management of agrichemical use and application to reduce to minimize adverse impacts by evaluation of runoff/infiltration hazards from agrichemicals.	No adverse effect
C.1 Increase in fishable and swimmable waters; health and safety issues for humans, domestic and wild animals	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect due to full mitigation of all adverse effects	None	No adverse effect