

# Microirrigation System: Table 1 Summary of Effects to Atlantic Salmon

## Practice Information

Microirrigation systems may be installed as part of a Conservation Management System to efficiently and uniformly apply irrigation water and/or chemicals directly to the plant root zone to maintain soil moisture for optimum plant growth, without excessive water loss, erosion, reduction in water quality, or salt accumulation.

Microirrigation is suited to orchards, vineyards, row crops, windbreaks, greenhouse crops, residential and commercial landscape systems. These systems can be used on steep slopes where other methods would cause excessive erosion or on areas where other application devices interfere with cultural operations.

Microirrigation can influence runoff and deep percolation by raising the soil moisture level and decreasing available soil water storage capacity. The movement of dissolved substances below the root zone may affect groundwater quality. As with all irrigation, there may be effects to downstream flows or aquifers and the amount of water available for other water uses.



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 use	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: decrease in surface or groundwater due to increased use of water for irrigation	Water Supply Control Measures: Irrigation Water Management applied as needed for site specific conditions	No adverse effect
D.2 Increase in water delivery to crop	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect

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I.1 Decrease in water for other downstream uses	Eggs & Larvae, Juveniles, Adults, Spawning Adults	May adversely affect: decrease in surface or groundwater due to increased use of water for irrigation	Water Supply Control Measures: Irrigation Water Management applied as needed for site specific conditions	No adverse effect
I.8 Increase in agrichemical use efficiency	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
I.10 Increase in targeted application, decrease in residual pesticides	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect
C.1 Decrease and increase in habitat suitability, health 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
C.3 Increase in water quality and aquatic habitats	Eggs & Larvae, Juveniles, Adults, Spawning Adults	No effect	None	No adverse effect