Headwater Hydrology, Climate Change and Forest Management

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A Warming Future

Source: NOAA – accessed June 2018

+0.7°F/Decade

↑ 4.5°F

61°F
WARMER TEMPS = RISK FOR TREES

Allen and others 2010 Forest Ecology and Management
Warm and Wet Future

Thorne and others, 2017 Climatic Change

Photo: Sierra Star/USFS

Hot and Dry Future

Thorne and others, 2017 Climatic Change
SHIFT FROM SNOW TO RAIN

Liang, Hurteau and Westerling, 2017 Scientific Reports

Snow Cover by 20–84%
SNOW/SWE IS DECREASING AND MOVING UPSLOPE

Source: Cal Adapt accessed June 2018
Navigating data and resources for appropriate responses to climate change and extreme events is challenging.
STAY IN TOUCH

https://www.climatehubs.oce.usda.gov/