Changes to Summer Stream Flow 2011-2040

Forecasted Change in Summer Flow
Mean Summer Pat Chng 2011-2040
-81.7% - -44.9%
-44.8% - -34.4%
-34.3% - -23.4%
-23.3% - -13.7%
-13.6% - -0.8%

Highways
Lakes
Incorporated City
UGA
County Boundaries

This map is for information purposes only. It does not indicate organizational priorities or projects.

VIC (Variable Infiltration Capacity) model produced by USFS Rocky Mountain Research station
Changes to Winter Stream Flow 1995-2040

This map is for information purposes only. It does not indicate organizational priorities or projects.
Changes to Stream Temperature 2011-2040

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NorWeST model produced by USFS Rocky Mountain Research station.
According to the Climate Impacts Group, by 2100 under the High (RCP 8.5) greenhouse gas scenario, there is a 2% chance the amount of relative sea level rise will meet or exceed 4’ by 2100 at this location; storm surge and king tides may add another 2’ of inundation under this scenario.

*Inundation data from NOAA ‘bathtub’ model*
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Heat is one of the largest drivers changing the niche of human habitability. Rhodium Group researchers estimate that under the RCP 8.5 scenario, between 2040 and 2060 extreme temperatures will become commonplace in the South and Southwest, with some counties in Arizona experiencing temperatures above 95 degrees for half the year.

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Climate resilience is determined based on the spatial relationships between elevation, slope, soil order, microclimate, and landscape permeability.

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The area in green represents the top two quintiles of resilience density. This map is for information purposes only. It does not indicate organizational priorities or projects.
The Western Association of Fish and Wildlife Agencies (WAFWA) uses 1 sq mi hexagons for their Crucial Habitat Assessment Tool (CHAT) which is used by the WDFW. This map is for information purposes only. It does not indicate organizational priorities or projects.
Percentage of Each Hex Covered by Resilient Lands

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While this information is helpful in Land Trust planning for future projects, it’s not the only criteria we use, and we only work with willing landowners.

Blue circles indicate shorelines that are:

- Private
- Undeveloped/low % modification
- Contain important marine habitats
- Are adjacent to resilient lands

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Thorndyke Bay

This is an area of Salt Marsh that has high resilience, is privately owned, and is forecasted to maintain tidal wetland conditions and expand northward as a consequence of sea level rise.

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Changes to Tidal Wetlands and Nearshore Habitats Due to Sea Level Rise

Year 2100, 1.4 m SLR

- **Blue**: Loss To Open Water
- **Yellow**: Tidal Wetland Persistence
- **Orange**: Tidal Wetland Conversion
- **Green**: Transgressive Migration
- **White**: Delta Process Unit
- **Green Tiq** current shoreline

Maps showing changes in habitat types under different scenarios due to sea level rise.
Number of Bird Species That are Highly Susceptible to Climate Change, Summer

These data were produced by the Audubon Society as part of their Survival by Degrees project.

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Number of Bird Species That are Highly Susceptible to Climate Change, Winter

These data were produced by the Audubon Society as part of their Survival by Degrees project.

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Terrestrial Species of Concern (WDFW CHAT)

The Crucial Habitat Assessment Tool ranks hexagons based on the number of terrestrial species of concern. Data are current as of February, 2019.

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Terrestrial Species of Concern (WDFW CHAT)

The Crucial Habitat Assessment Tool ranks hexagons based on the number of terrestrial species of concern. Data are current as of February, 2019.

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Aquatic Species of Concern (WDFW CHAT)

The Crucial Habitat Assessment Tool ranks hexagons based on the number of aquatic species of concern.

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Crucial Habitat Rank (WDFW CHAT)

Combined terrestrial and freshwater analysis, assigning the highest crucial habitat value from both terrestrial and aquatic crucial habitat layer to the hexagon.

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What is the Distribution of Public Lands?

GAP Status 1, 2, 3 lands

This map is for information purposes only. It does not indicate organizational priorities or projects.
What is the Protection Level of Public Lands?

This map is for information purposes only. It does not indicate organizational priorities or projects.
What is Already in Public Ownership?

Limiting public lands to GAP Status 1, 2, 3 lands

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Percentage Resilient Lands in Hexes < 100% Public

Where are the hexagons that are not currently 100% in public ownership?

This map is for information purposes only. It does not indicate organizational priorities or projects.
Percentage Resilient Lands in Hexes < 100% Public, > 50%

Resilient Lands

Where are the hexagons that are not currently 100% in public ownership, which are also 50% or more covered by resilient lands?

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What is the resilience density within hexagons that are less than 100% in public ownership and covered 50% or more by resilient lands?

This map is for information purposes only. It does not indicate organizational priorities or projects.
Where are hexagons that are less than 100% in public ownership and covered 50% or more by resilient lands that have a resilience density of 80 or higher?

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Hexes that Also Have High Crucial Habitat Ranking

< 100% Public
>= 50% Resilient
>= 80 Resilience

Mapped by WDFW
CHAT Crucial Habitat Rank

This map is for information purposes only. It does not indicate organizational priorities or projects.
How Does it Relate to Existing Public Land?

This map is for information purposes only. It does not indicate organizational priorities or projects.
Where Have the Land Trusts Already Conserved Land?

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Where Have the Land Trusts Already Conserved Land?

This map is for information purposes only. It does not indicate organizational priorities or projects.
Where are Areas Important for Habitat Connectivity and Migration?

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Where are Areas Important for Habitat Connectivity and Migration?

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What is the Development Probability Within High Value Hexes?

The methodology used to map development likelihood will be explained under the Community Conservation Pillar.

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These are blocks of contiguous private ownership located within forest zoning, and parcels located outside current forest zoning that intersect FPAs. This map is for information purposes only. It does not indicate organizational priorities or projects.
Working forests are divided into Designated Forestland and Not Designated Forestland, both within and outside of forest zoning.

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How Suitable is the Land for Growing Trees?

Percentage of each parcel covered by WA DNR Site Class 2 or 3

This map is for information purposes only. It does not indicate organizational priorities or projects.
How Well Does the Land Retain Water?

Mean Water Retention Index per parcel

This map is for information purposes only. It does not indicate organizational priorities or projects.
How Forested are the Working Forest Parcels?

Canopy cover tells how much of each parcel is covered by trees, but does not tell us anything about size/age or species composition.

This map is for information purposes only. It does not indicate organizational priorities or projects.
This map shows the estimated basal area of hardwoods per pixel.

Where Are Hardwoods Located?

This map is for information purposes only. It does not indicate organizational priorities or projects.
This map shows the total basal area of hardwoods per parcel within working forests. Where Working Forests Contain the Most Hardwood Forest? This map is for information purposes only. It does not indicate organizational priorities or projects.
Carbon Sequestration Opportunities

From USGS:

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This map shows the total basal area of hardwoods per parcel within working forests.

Where Working Forests Contain the Most Hardwood Forest?

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Size of Trees

Quadratic Mean Diameter of dominant tree species per pixel, expressed as mean within each parcel.

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Count of the number of distinct forest types per parcel

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Working forests are divided into Designated Forestland and Not Designated Forestland, both within and outside of forest zoning. This map is for information purposes only. It does not indicate organizational priorities or projects.
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Development Score of Working Forests That are Not Designated Forestland

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Development Score of Working Forests That are Not Designated Forestland

This map is for information purposes only. It does not indicate organizational priorities or projects.
Water Retention Index

Leaf Area Index
Surface Waterbodies
Soil Available Water Content
Permeability of Lithology
Slope Factor
Impervious Surfaces
This map is for information purposes only. It does not indicate organizational priorities or projects.
Where Are Working Farms?

WSDA mapped agricultural parcels

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Where Are Working Farms?

Cropscape 2019 > 0.5 acre

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What is the Extent of Current Ag Parcels?

Parcels that either intersect WSDA 2019 or contain Cropscape 2019 (> 0.5 acre)

This map is for information purposes only. It does not indicate organizational priorities or projects.
Where is Potential Ag Land?

Zoned for agriculture but not within WSDA or containing > 0.5 acres in Cropscape

This map is for information purposes only. It does not indicate organizational priorities or projects.
What is the Productivity, Versatility, and Resilience Score?

Productivity, Versatility, and Resilience was mapped by the American Farmland Trust for the Farms Under Threat program; the higher the number, the higher the PVR.
What is the Water Retention Index for Current Ag Parcels?

WRI score based on soils, impervious surface, slope, lithology, leaf area index, and area of waterbodies.

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What is the Water Retention Index for Current Ag Parcels?

Mean WRI score based on soils, impervious surface, slope, lithology, leaf area index, and area of waterbodies.

This map is for information purposes only. It does not indicate organizational priorities or projects.
This map shows the combined score for Water Retention Index and Productivity, Versatility, and Resilience within the extent of current agricultural activity. This map is for information purposes only. It does not indicate organizational priorities or projects.
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Combined Score for WRI and PVR with Conservation Easements

This map shows high WRI and PVR with existing conservation easements and other protected and public lands.

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This map shows the combined score for Water Retention Index and Productivity, Versatility, and Resilience within the extent of current agricultural activity.

This map is for information purposes only. It does not indicate organizational priorities or projects.
Combined Score for WRI and PVR with Conservation Easements

This map shows high WRI and PVR with existing conservation easements and other protected and public lands.

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Ag Land with High WRI/PVR, Large Combined Ownership, Small Parcels

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Weighted Development Score, v3

Assessed Land Value per Acre [0.35]

Percent Surrounding Developed Parcels [0.25]

Presence within/Proximity to UGAs [0.2]

Potential Development per Parcel [0.15]

Average Slope within Parcel [0.05]

This map is for information purposes only. It does not indicate organizational priorities or projects.
Unweighted Development Score, v3

Simply adding all 5 variables and dividing by 5

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Weighted Development Score, v3

Assessed Land Value per Acre [0.35]

Percent Surrounding Developed Parcels [0.25]

Presence within/Proximity to UGAs [0.2]

Potential Development per Parcel [0.15]

Average Slope within Parcel [0.05]

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New Development by 2050, OFM ‘High’ Series

Assume highest population projection generated by OFM for 2050 and hold ratios of City/UGA/Unincorporated constant:

Clallam +8,363 units

Jefferson +8,353

Distributing by avg ppl/du from highest to lower probability

This map is for information purposes only. It does not indicate organizational priorities or projects.
269 observer locations on major roads, 154 on ODT in Clallam

487 observer locations on major roads, 51 on ODT in Jefferson

961 separate viewshed rasters, summed within the two extents

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Viewshed Results

Highly visible areas on private land

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Reviewshed Results

Highly visible areas on private land with building footprints.
Viewshed Results

Highly visible areas on private land with building footprints

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Highly visible areas on private land with building footprints

This map is for information purposes only. It does not indicate organizational priorities or projects.
Highly visible areas in Google Earth

This map is for information purposes only. It does not indicate organizational priorities or projects.
Viewshed Results

Highly visible areas in Google Earth

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Viewshed Results

Highly visible areas in Google Earth

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Viewshed Results

Highly visible areas in Google Earth

This map is for information purposes only. It does not indicate organizational priorities or projects.
These data were compiled by Washington Hometown and donated to NOLT & JLT

This map shows the distribution of recreational facilities, trails, museums, and other attractions.

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