Forestland Owners: The USDA Forest Service

Glen Holt, RREA forester

Tongass National Forest, continued from page 3

the mainland; and a host of other bays, inlets, glaciers, rivers and millions of acres of wild and primitive land in, around and through it.

e Tongass National Forest is the location of 32 towns and villages. ese communities are enabled by a large assortment of natural resources including sustainable supplies of timber, the production of approximately 64 million salmon from its watersheds, and a growing tourism industry.

Salmon from the Tongass support 1 in 10 jobs in Southeast Alaska. Sport shing in the Tongass is described as "phenomenal" and there are lodges and guide services that cater to sport shermen helping to support the local economy.

e Tongass National Forest itself o ers 142 rustic reservable cabins, 210 campsites within 13 campgrounds, 19 wilderness ar eas, two national monuments, and _{Cabins} interpret ve sites and many miles of maintained trails are in the Tongass 450-miles of hiking trails there. ere are more brown bears on one island (Admiralty) than the entire Lower 48 combined. • Admiralty National Monument Juneau Ranger District in Juneau: 907-586-8800 • Craig Ranger District on Prince of Wales Island in

National Forest activities within the Tongass include: interpretive trails, shing derby's, Junior Ranger Programs, Family Field Guides, kayaking,

• orne Bay Ranger District on Prince of Wales

air charters, ight-seeing, ferry systems, boat rentals, land: 907-828-3304 shing charters, bear viewing, tide pools, glacier viewHoonah Ranger District: 907-945-3631

ing, bed and breakfasts (B&B), bird watching, cave • Ketchikan Misty Fjords Ranger District in Kettours, boardwalks, stream shing, wildlife observation chikan: 907-225-2148

sites, and a road system built by the timber industry during its hay-day for exploring by car on Prince of Wales, Island.

Craig: 907-826-3271

Learn more at www.fs.usda.gov/tongass

- Sitka Ranger District in Sitka: 907-747-6671
- Forest Supervisor's O ce in Ketchikan: 907-225-3101
- Wrangell Ranger District in Wrangell: 907-874-2323
- Yakutat Ranger District in Yakutat: 907-784-3359

Public Forest Management

A new Tongass Nat onal Forest Southeast Alaska Sustainability Strategy

Adapted from USDA Press Release No. 0157.21

e U.S. Department of Agriculture (USDA) announces a new Southeast Alaska Sustainability Strategy to help support a diverse economy, enhance community resilience and conserve natural resources. Within this strategy, the USDA will consult with tribes and Alaska Native corporations, and engage partners and communities in a collaborative process to invest approximately \$25 million in nancial and technical resources in sustainable opportunities for economic growth and community well-being and identify priorities for future investments.

A key part of this strategy will end large-scale oldgrowth timber sales in the Tongass National Forest and instead focus management resources to support forest restoration, recreation, climate resilience, wildlife habitat and watershed improvement. Small and micro old-growth timber will still be o ered for community consumption and cultural uses such as totem poles, canoes and tribal artisan use.

e strategy proposes to restore the 2001 Roadless Rule protections on the Tongass National Forest,

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Tree Health and Fert lizat on

Glen Holt, RREA forester

Alaska's forest health is declining due to environmental stress and is a ecting middle- to olderaged trees in the forest and especially in longestablished neighborhoods. Stress factors include warming and drying trends, which lead to declining vigor.

Yard trees are o en planted or retained on highly disturbed sites where soil fertility is diminished due to land clearing, house building and access development. Middle- to old-aged forests and trees in Alaska are naturally exhibiting slowing growth;

The Boreal Forest Newsletter

Tree Health, continued from page 6

leads to reduced compaction)

Get your soil tested

•

 Low moisture availability (when applied during a period of su cient moisture in order to increase root surface)

agent. ey will have it analyzed and then advise you on how to remediate your soil to best advantage.

Limit fert lizing to the proper season

Over fertilizing or at the wrong time of the year Soil compaction (enhanced root developmentan be harmful. In Alaska, the best time to fertilize trees is in the spring a er the snow is gone and the leaves are fully developed.

Recovery from physical damage

Ability to compete with grass accumulations • and other vegetation

Insect and disease problems

Re-stimulating a tree with fertilizer a er the end of July can result in severe cold weather injury to the tree.

For application rates re ecting the current and ongoing knowledge of tree fertilization look at the UAF Cooperative Extension Service publication

Turn in a sample of your soil to your local Uni- titled "Tree Health and Fertilization: FWM-00119," versity of Alaska Fairbanks Cooperative Extensionin which much of the material here was found.

The Project Learning Tree (PLT) Program in Alaska

Project Learning Tree, better known in the education community as PLT, has been around a long time in Alaska and the United States and provided many teachers and educators with materials to deliver forestry and environmental education activities and curricultece

e Paci c yew (Taxus brevifolia) also called western yew and mountain mahogany, is a shrubby to medium-small coniferous evergreen tree usually less than 49 feet tall and less than 20 inches in diameter. ey are extremely slow growing and hard to age due to rot in older ages.

ey are found as far north as southern Prince of Wales Island in southern Southeast Alaska. Paci c yew grows as a tree beneath a closed forest canopy of overtopping late successional stage forests beneath hemlocks, Sitka spruce and cedars. In Alaska, this shade-tolerant species o en grows short and stunted with multiple tops.

Paci c yew has thin scaly brown bark covering o -white sapwood around a darker heartwood that

e needles are evergreen, lanceolate shaped, dark green, just over an inch long and less than 0.1 inches wide. e needles appear to align in two at rows.

e seed cones are highly modi ed, each containing a single seed from 0.1 to nearly 0.3 inches Padif c yew needles are sof to the touch and lay in two f at rows.

varies in color from brown to a purplish or deep red. long, partly surrounded by a modi ed scale that develops into a bright red berry-like structure called an ^{at}aril, which itself is from 0.3 - 0.6 inches long and wide and open at the end. Arils of the Paci c yew mature 6-9 months a er pollination. Male cones of this generally dioecious species are globe shaped, 0.10 - 0.24

Ted Sandhofer, Petersburg district ranger, uses a beat ng sheet to help the Forest Health Protect on team survey and collect hemlock defoliators. The sheet is placed

Summer 2021

The Forest as Habitat: Southeast Rainforests

Glen Holt, RREA forester

Basic wildlife habitat requirements include: food (adequate to every seasonal need), cover (nesting cover may be different than winter protective cover), water and living space (variable by gender and species). However, black bear in spring when deer fawns are born can become a signi cant predator for weeks before the fawns grow large enough to get away.

e forest habitat in Southeast Alaska is identi ed as the Northern Paci c Temperate Rainforest Ecoregion and is characterized by high amounts of rainfall and moderate summer and winter temperatures. Its landscape consists of mainland surrounded by islands and ords near the ocean. It is o en dominated by steep mountainous terrain with manrus tA(e a)9 (r EMC

Southeast Alaska forests are covered with Sitka spruce, western and mountain hemlock, red and yellow cedar, black cot onwood, alder and shore pine.

Habitat requirements can be speci c to a wildlife species. Some factors might overlap and the species then would be in competition for those resources like seasonal food, or nesting cover, or living space.

Sitka black-tailed deer and black bear live in the forests of Southeast Alaska and may occupy much of the same area, but their speci c requirements for food, cover and living space are not similar and so they don't directly compete for most of those basics.

Clear cuts grow back fast to dosed canopy stands with very lit le food habitat potent al unt I light is let in to the stand by thinning or blow-down.

Forest Habitat, continued from page 11

It could take 50 years or more for un-thinned stands to begin to regrow understory plants, shrubs and forbs that wildlife need for food

in the Tongass National Forest of Southeast Alaska and forbs that wildlife need for food. doing so they regenerate abundant food for deer, bear Wildlife habitat supports the culture of Southeast and other wildlife. A er 20 years or so, the regeneral Alaska with a variety of personal use subsistence reing trees have grown back so profusely they shade sources. Forest management is challenged by weighall other plants in the understory. Almost no wildlife ing forest land use considerations with what is vitally food grows there a er 20 or more years from clear important to people that still live on, in and with the cutting, until the stand opens again allowing light to landscape in Southeast Alaska's Northern Paci c temperate rain forest.

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