Traditional Food Plants of the Confederated Tribes of Grand Ronde West Eugene Wetlands

From Time Immemorial

Since time immemorial, Native Americans have resided in Western Oregon. Today, many of these tribes, including the Kalapuya, Molalla, Umpqua, Rogue River, Clackamas, Tillamook, some Shasta, and many other people from regional tribes are part of the Confederated Tribes of Grand Ronde. The West Eugene Wetlands are within the traditional homelands of the Kalapuya and a part of the vast expanse of lands regional tribes ceded to the U.S. Government in treaties between 1853 to 1855. After the treaties were signed, the tribes were relocated by the U.S. Government to the Grand Ronde Indian Reservation located 30 miles west of Salem, Oregon at the foothills of the coast range. Traditionally, the tribes utilized hundreds of plants for food, medicine, structures, weaving materials and more. The tending, harvest, and use of plants had (and continues to have) important roles in ceremonies, celebrations, and household use.

Today, tribal members face many challenges to gathering traditional plant resources due to pollution, the neglect of culturally important species, and the lack of access to sites suitable for sustainable harvesting. To address this problem Grand Ronde members are forming strategic public and private partnerships to help plan and implement projects to restore culturally and ecologically significant plants within their ceded homelands. The West Eugene Wetlands Ethnobotany Resource Area Project is an example of such an effort. The Grand Ronde along with other tribes in the region are developing restoration sites for plants such as those on this poster, as well as organizing educational and outreach events that feature basket weaving, story telling, canoe building demonstrations, and lectures on Native American history in the area.

Traditional Foods

For thousands of years the Willamette Valley has provided a vast array of plant foods for the Native American people that live here. Many traditional foods can be found in the West Eugene Wetlands, a varied landscape of upland oak savannah, upland prairie, wetland prairie and riparian zones that host a great diversity of plants and animals. For example, tarweed (Madia sp.), grows on dry prairies, camas grows on wet prairies, hazel grows on dry semi-open or brushy areas, and the oaks grow in dryer zones. The Kalapuya used a variety of management techniques to improve food production systems. The maintenance of the traditional foods through tilling, digging and other activities helped maintain the varied landscape. Controlled fires were regularly set which had many benefits including keeping out unwanted competitor species and insects, and returning nutrients to soil.

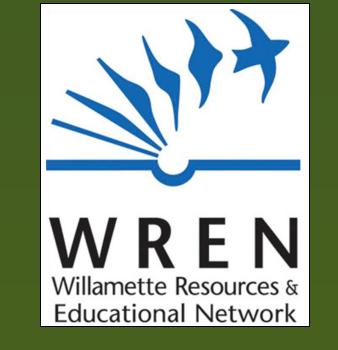
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Confederated Tribes of Grand Ronde Cultural

Resources Dept. www.grandronde.org/culture/

Willamette Resources and Educational Network.

and the Confederated Tribes of Grand Ronde

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Background photo by Ted Toadvine.

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Small Camas - Camassia quamash Tall Camas - Camassia leichtlinii

Habitat: Wet meadows, wet prairies, swales, depressions, annual floodplains, moist hillsides, and streamside areas. Camas habitat is often ephemeral, drying out by late spring.

Harvesting and Uses: The camas is a highly valued traditional food source of all of the tribes in the Confederated Tribes of Grand Ronde, including the Kalapuya of the southern Willamette Valley. Several varieties of camas were

known to the Kalapuya people. Each Tribe had its own way of preparing the bulbs. The land was burned to enhance camas gathering areas throughout Western Oregon in pre-contact times.

Accounts by John Hudson, Santiam Kalapuya, Louis Kenoyer, Tualatin Kalapuya and Stephen

"Camas was baked in ovens lined with maple and ash leaves. On the leaves would be placed hot rocks and then the camas. And then they placed leaves on top of the camas and covered it with earth. They built a fire on top of the rocks, that's how they prepared the camas. They would cook it that way for three days...sometimes only two days." -John Hudson

"Tualatin women dug camas roots, they used a root digger. A big pile of them was made, and they steamed them two days (in a ground oven over hot rocks). They took them out from the ground, then they dried them (by a fire) to eat in wintertime." -Louis Kenoyer

"The Molalla used several varieties of camas. Molalla used a horn and clam as a digging stick. Camas cooked by the rock in a hole, the hot rocks were covered with leaves of skunk cabbage about two feet high. Then the camas was covered over with leaves again, then dirt, and on top a fire was built. Cooked about one day or more. For winter use the camas was dried after having been cooked. Dried in sun. Often camas was mashed and bread made of it."



Tarweed

Habitat: Open areas at low elevation.



Harvesting and Uses: Accounts by Louis Kenoyer, Tualatin Kalapuya, John Hudson, Santiam Kalapuya and Eustace Howard, Santiam Kalapuya.

"They beat tarweed seeds (into a rawhide bucket sing a paddle), and they put them away for wintertime."

"They dried meat, and in wintertime they also ate azelnuts, and acorns, and tarweed seeds, and dried berries." -Eustace Howard

"In summertime they picked tarweed seeds, and they dried them on the fire, and when they were done, then they put them away. Now long ago the people had a large rock which had a hole in its center (mortar), and they mashed their tarweed seeds in it. Sometimes they also mashed their cooked camas where they mashed the tarweed seeds. And when they were through, then the people ate what was mashed which they had pulverized. They mixed hazelnuts, and cooked camas, and tarweed seeds, and then they ate their cooked camas and their tarweed seeds and their hazelnuts." -John Hudson

"Eustace Howard said it is more like the soft-bag in technique of weaving, with it they prepared tarweed seeds. I do no quite well know what its name was. I do not know how they did it (wove it) when they manufactured them. But I myself only saw (some old ones used) when they prepared tarweed seeds (with them). They had them (they were made) rather like storage-baskets indeed (like the soft-bags, according to Howard)." -Kalapuya Texts



Oregon White Oak - Quercus garryana Black Oak - Quercus kelloggii

Habitat: Pure, closed-canopy stands; in mixture with conifers or broad-leaved trees; and as scattered single trees or groves on farmlands, woodlands, and prairies.



Oak Tree Leaves

Harvesting and Uses: Accounts by John Hudson, Santiam Kalapuya and Stephen Savage, Molalla.

"They mixed with hazelnuts, and cooked camas, and tarweed seeds, they ate their cooked camas and their tarweed seeds and their hazelnuts." -John Hudson

"The acorn was buried in a blue kind of clay (mud) and kept there until ready for use. When fresh it was cooked in ashes." -Stephen Savage

"When acorns ripened on oaks, and when the acorns fell down, then the women would gather those acorns. "They would pick up quantities, they would put them into their softbags, and they would take them back to their homes. Now then they would roast them in hot coals in the ground till they cracked. And then they would take them out, and now the acorns would be cracked. Then they put away its flesh. They dried the acorn's flesh. (They were laid in the sun either on the ground or on tightly woven rush mats). Now when they wished to eat, they had a small soft-long-basket, and they put some of the acorns into it. Then they placed it (basket and acorns) in water to soak maybe one day and one night to remove the bitter taste. And then they took the acorns out of the water and they boiled them. They cooked, they ate it. That is what they did." -John Hudson

"The Clackamas steam roasted acorns in a pit oven until they cracked." -John Wacheno



Hazel Tree Leaves

Hazelnut Corylus cornuta

Habitat: Found along stream banks and slopes. Usually occurs in non wetlands, but occasionally found on wetlands, low to middle elevations.

Harvesting and Uses: Accounts by Louis Kenoyer, Tualatin Kalapuya and John Hudson, Santiam Kalapuya.

"They gathered quantities of hazelnuts to eat in wintertime." -Louis Kenoyer

"They mixed hazelnuts, and cooked camas, and tarweed seeds, they ate their cooked camas and their tarweed seeds and their hazelnuts." -John Hudson

"They dried meat, and in wintertime they also ate hazelnuts, and acorns, and tarweed seeds, and dried berries." -John Hudson

"This countryside is not good now. Long, long ago it was good country (had better hunting and food gathering). They were all Indians who lived in this countryside. Everything was good. No one labored (at hard labor for wages). Only a man went hunting, he hunted all the time. Women always used to dig camas, and they gathered tarweed seeds. Such things were all we ate. They gathered acorns, they picked hazelnuts, they picked berries, they dried blackberries." -John Hudson



Evergreen Huckleberry - Vaccinium ovatum Red Huckleberry - Vaccinium parvifolium Salmonberry - Rubus spectabilis

Habitat: Found primarily in moist coniferous forests, openings.



Harvesting and Uses: A wide range of berries were gathered and eaten, including varieties of huckleberries (Vaccinium spp.), western blackberry (Rubus ursinus), blackcap (Rubus Leucodermis), nimbleberry (Rubus parviflorus), serviceberry (Amalianchar alnifolia), elderberry (Sambucus spp.), strawberries (Frageria spp.), and currents and gooseberries (Ribes spp). Some were eaten fresh and others dried and stored for wintertime use. Other parts of the



were used to make tea. Account by John Hudson, Santiam Kalapuya

"Long ago when the people (women) used to dry their perries, they would put some of them on mats over a (flat hewn) log, while they would place others on gunnysacks. Now they oured their berries over them (on the log or sack), (and) there neir berries would become dry. And they would place others on gs, these logs they (the women's husbands) had chopped on to make the log flat. Now there is where they (the women)

berry plants were also used. For instance, young shoots of the

salmonberry plant were eaten and leaves from some of the plants

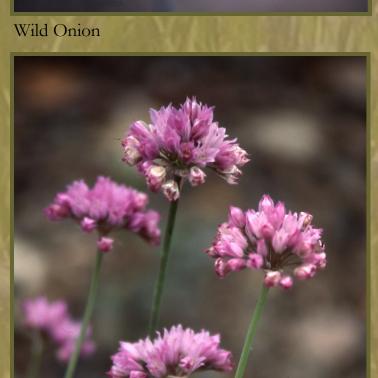
rays poured (spread out) their berries (to dry). The person who e wife of the man who) had fixed (hewn) that log (flat on the o) was the one whose log it was, (because) he had fixed it. There ney (the women) dried their berries. That is the way they always lid it, when they went to the mountains for their berries. The men would go hunting, and the women would go to pick berries."



Wild Onion

Brodiaea, spp. Allium spp.

Habitat: Found in a variety of areas, but primarily in wet meadows, wet prairies, swales, depressions, annual floodplains, and moist hillsides.



Harvesting and Uses: A variety of species of Brodiaea and Allium were used by the Tribes. These include harvest brodiaea (Brodiaea coronaria), elegant brodiaea (Brodiaea elegans), fool's onion (Brodiaea hyacinthina, also called Triteleia hyacinthine) and slimleaf onion (Allium amplectens). Some were taken around camas gathering time while others were gathered at ther times of the year.

Account by Victoria Howard, Clackamas Chinook

'Meantime his older sister vonder (robin's) broke her root digger. She thought, "Oh dear me! my younger brother! What happened to them (her brother and her child)? She went back home, she got back. He was weeping. She said to n, "What is the matter?" "Indeed you said to me, if she ies, then bake her. And that is what I did." He showed her o her there. She said to him, "I did not tell you to bake her. old you to bake Brodiaea for her." -Victoria Howard



Yampa

Habitat: Low to middle elevations in dry to moist meadows and mossy or grassy slopes.

Harvesting and Uses: Yampa or "wild carrot" was gathered throughout the Willamette Valley. The roots ere used for food and the leaves and seeds also had arious uses. The roots were roasted, boiled, steamed, eaten raw or dried. If roasted they were dried, peeled, and ooked in a earth oven. The Tualatin Kalapuya had a location near Champoeg where yampa was gathered.





Cow Parsnip (Heracleum lanatum)

Food Plants...

Wild Celery (Oenanthe sarmentosa) Ookow (Brodiaea congesta, Dichelostemma congesta) Western Bistort (Polygonum bistortoides)

More Traditional

Cat's-ear, Mariposa Lily (Calochortus spp.)

Bare-stem Desert-Parsley (Lomatium nudicaule) Pacific Crab Apple (Malus fusca, Pyrus fusca) Choke-cherry (Prunus virginiana) Checker Lily - (Fritillaria affinis)





