SECWEPEMC (SHUSWAP) TREE NAMES: KEY TO THE PAST?

Nancy J. Turner

Environmental Studies Program University of Victoria Victoria, B.C. V8W 3P4

Marianne Boelscher Ignace

Secwepemc Cultural Education Society/Simon Fraser University Program Kamloops, B.C. V2H 1H1

and

Brian D. Compton Department of Botany, The University of British Columbia, Vancouver, B.C. V6T 1Z4; and Secwepemc Cultural Education Society/Simon Fraser University Program,

Kamloops, B.C. V2H 1H1

ABSTRACT

Secwepemc terms for 23 species of trees were examined and compared with names in four neighbouring Interior Salish languages. Distributions of these species across southern British Columbia and northern Washington and Idaho were also determined. Of the 23 tree species included in the study, 12 have Secwepemc names cognate with Okanagan and Flathead, whereas only 9 names are cognate between Secwepemc and Nlaka'pamux, and 7 between Secwpemec and Lillooet. Six Secwepemc tree names are unrelated to those of the other languages. Only two terms, for whitebark pine and Rocky Mountain maple, are cognate between Secwepemc, Lillooet and Nlaka'pamx, but not with Okanagan or Flathead. No terms are cognate exclusively between Secwpemc and Lillooet, yet 8 terms are cognate exclusively between Lillooet and Nlaka'pamx.

INTRODUCTION

Trees are regarded as a descrete unit of cognitively related objects, which are, in almost all indigenous societies, both culturally highly significant and linguistically marked at a generic level, usually by primary lexemes (Berlin et al. 1974; Brown 1977, 1984; Witkowski et al. 1981). As a general taxonomic unit, of a rank commonly termed "life form," "tree" is among the first inclusive taxa to be developed and named in languages (Berlin 1972; Brown 1984). Names for the class, "tree" often derive either through semantic expansion of reference of the folk generic name of a common tree of high salience in a region, or through reference to the woodiness or growth form of trees as a group (Trager 1939; Berlin 1972; Turner 1974; Witkowski et al. 1981). In Shuswap, for example, as well as in Okanagan and Lillooet, the term for tree is derived from the root for "standing upright" (cf. Kuipers 1989; Turner 1988b).

Tree terms are often used in linguistic analyses, together with the known distribution patterns of the tree species named, to give some insights into the historical origins of groups of people (Kinkade 1989; Siebert 1967; Hock 1986). At least one comparable study (Newman 1974) has provided insight into the volume, direction and historical dimension of the borrowing of biological terms from neighbouring tongues into the Salish isolate, Nuxalk,

which has retained relatively few such forms to show evidence of its Salish affiliation. In this study, we examine the corpus of tree names in Secwepemc and compare them with those of neighbouring Interior Salish languages to try to gain a better understanding of the origins of Shuswap-speaking peoples in relation to other Salishan groups. Tree names from other language groups, both Salish and non-Salish, are also cited on occasion to clarify the origins of specific terms.

The Secwepemc¹: Linguistic and Cultural Affiliations

The are the northernmost Salish-speaking occupants of the British Columbia plateau. Besides bordering on three Interior Salish speaking neighbours, i.e. the Lillooet (Stétemx) to the west, the Thompson (K képmx) to the southwest, and the Okanagan (C wénemx) to the southeast, they are surrounded by numerous other tribes or first nations of a number of different linguistic stocks, including the Chilcotin, Carrier, Sekani, Cree, Stony, Blackfoot, Ktunaxa (Kutenai), and formerly, the Athapaskan-speaking people of the Nicola Valley.

Secwepemc contact and interchange with their Interior Salish neighbours was frequent and resulted in frequent intermarriage, and a general similarity of cultural traits between the Secwepemc and their Salish neighbours has been noted, likely the result of common cultural or igins as well as diffusion at a later date (e.g. Teit 1909; Boas 1890; Dawson 1891; Ray 1939; Palmer 1975b). The Secwepemc and their Interior Salish neighbours themselves, in the past as well as today, acknowledged the shared cultural and linguistic heritage, although they saw themselves as politically and culturally distinct nations occupying distinct territories, although obviously, this self-image increased with increasing pressure on their control of land and resources by intruders (c.f. Teit 1909; <u>Memorial to Sir Wilfred Laurier 1910</u>, Secwepemc Nation Tribal Council 1989). Contact and interchange with non-Salish neighbours was far less frequent and intense than contact with their Salish neighbours, with the exception perhaps of the Kinbasket Secwepemc, who interacted with the Ktunaxa since their emigration to the Columbia area in the early 19th century.

The Secwepemc language is most closely related to that of their Thompson neighbours, sharing some 75% cognates (Swadesh 1950; Elmendorf 1965). According to the same sources and based on Swadesh's data, the percentage of shared cognates with Lillooet is 48%, and with Okanagan 50%. Elmendorf (1965; see also Suttles and Elmendorf 1963) also elaborated on the

¹While the correct phonetic rendition of the Shuswap people's self designation in NPA is S xw pmx, the spelling "Secwepeme" is used here throughout the text to reflect the practical alphabet (see Kuipers, <u>A Shuswap Course</u>)spelling commonly used among the people themselves today.

geographic and temporal divisions between the Interior Salish languages. He posited Okanagan as the link between the Northwestern group comprising Lillooet, Secwepemc and Thompson, and the Southeastern group represented by Kalispel, Spokane, Flathead and Coeur d'Alene. Elmendorf, in comparing cognate percentage with spatial distance and contact invervals among these groups (op.cit. 69), noted that "...It is obvious that territorial proximity and intervals of contact correspond closely to cognate relations. This suggests in turn that the differentiation of the present-day IS languages has taken place during a period in which their relative spatial arrangement has remained more or less constant." He postulated further that "the fact that all other members of the Salish stock occur west of Lil[ooet], and in contact only with the westernmost IS speech communities, indicates the direction of expansion as southeastward" (op.cit.:72). In a temporal sense, he suggests that, following an IS split from Coast Salish, the northwestern speech communities (Lil/Tho-Shu) split from the Southeastern speakers, accompanying a migration in that direction. Subsequently, Thompson [Nlakapamux] and Secwepemc split, accompanied by a northward expansion of the latter. The latter movement, in turn, may explain the etymological origin of the Secwepemc self-designation as resulting from the root xw p- [cwep] "to spread, unfold", hence Secwepemc = "spread-out people" [s pref. = nominalizer; mx suff. = "people"]. The split and migration within the Northwestern group, in turn, co-incided with similar splits in the southeastern group (ibid.). However, these spatial relations based on shared cognates in general may not tell the entire picture as to internal connections and diffusion between the groups. Environmental and geographic factors may play a role here and it is useful to turn to an examination of the latter.

5

The Secenemic Environment and Vegetation

Secwepemc traditional territory covers a vast and diverse area, including dry valleys, rolling grasslands, extensive plateau lands, and high mountain ranges. The area is drained by the North and South Thompson and Fraser rivers and their tributaries, and, in the southeastern part, by the Columbia river system. In all, the region encompasses 180,000 square kilometers, and extends from west of the Fraser River at Dog Creek and Canoe Creek, east as far as Jasper House, beyond the Rocky Mountains. Maps of Secwepemc territory, and the seven major divisions of the Shuswap Nation, are shown in <u>Introduction to the Shuswap</u> (Secwepemc Cultural Education Society 1986; see also Teit 1909).

6

As would be expected over such a diverse area, there are significant variations in climate, and in plant and animal life. In all, Shuswap territory encompasses nine major vegetation zones: Alpine Tundra; Sub-Boreal Pine -Spruce; Sub-Boreal Spruce; Engelmann Spruce - Subalpine Fir; Montane Spruce; Bunchgrass; Ponderosa Pine; Interior Douglas-fir; Interior Cedar -Hemlock (cf. Ministry of Forests 1988). Of these, all except for Alpine Tundra and Bunchgrass are characterized by assemblages of dominant forest trees and associated plants and animals. Thus, Secwepemc culture and history, like that of most other Aboriginal Peoples of western North America, is closely intertwined with forest ecosystems, and it is not surprising that virtually every tree species occurring in in Secwepemc territory has its own, genericlevel name, and a relatively high degree of cultural significance. One ecological phenomenon of Secwepemc territory should be noted particularly in the context of this study: the rain shadow effect of the Coast and Cascade Mountain ranges, producing a large belt of relatively dry landscape running in a general north-south direction in the central interior of British Columbia, Washington and Oregon. This dry landscape, commonly known as the Interior Dry Belt, is bordered on the east by the Monashee, Purcell and Selkirk Mountain ranges, which, being of higher elevation, have a moister climate. The leeward side of these ranges is again dryer, but most of the lands of the Columbia and associated drainages in the eastern part of Secwepemc territory have relatively high levels of precipitation. This region is known as the Interior Wet Belt.

7

In general terms, Secwepemc territory is evenly extended over the Interior Dry Belt and the Interior Wet Belt, and these belts extend southward into Okanagan and Flathead Interior Salish territories. To the west of Secwepemc territory, the Lillooet and Nlaka'pamx peoples occupy homelands that straddle the Coast and Cascade ranges, where the climate is moist, and extend into the western part of the Interior Dry Belt.

Secwepemc people thus share the Interior Dry Belt, and its associated vegetation with the Lillooet, Nlaka'pamx, but whereas all three groups also have moist, heavily forested ecosystems within their territories, often with the same associated tree species, the moist forests of the Secwepemc lands are part of the Interior Wet Belt, while the moist forests of Lillooet and Nlaka'pamux lands are within the Coastal Montane forest lands. This factor may be significant when one is considering at what stage historically groups of Salish people encountered particular tree species.

Another factor to consider when investigating peoples' historical association with trees is that the distribution of the tree species themselves has not remained static. Since the retreat of the last continental glaciers, approximately 10,000 years ago, vegetation distribution has changed considerably (Pielou 1991). On the basis of pollen records from cores taken in lake bottoms and bogs in central and eastern British Columbia, paleoecologist Dr. Richard Hebda (personal communication to NT, July 1992) has determined that lodgepole pine (Pinus contorta) and trembling aspen (Populus tremuloides) have been common and widespread throughout the interior since the time of the ice retreat. Douglas-fir (Pseudotsuga menziesii) also came into the region relatively early, probably within the last 8,000 to 10,000 years ago, and has apparently replaced lodgepole pine in many areas (Pielou 1991). The establishment of western red-cedar (Thuja plicata) was apparently considerably more recent, possibly 2,000 years ago. Pollen from a species of the cypress family (Cupressaceae), probably of Rocky Mountain juniper (Juniperus scopulorum), indicates a long-standing presence of this species.

8

Obviously more data are required on the history of dispersal of various tree species, particularly in terms of which would have been available to the Secwepemc and other Interior Salish peoples at the time of their arrival to the area. As further paleoecological research is undertaken in the region, more answers should be forthcoming.

RESULTS

Table 1 lists the trees occurring within Secwepemc territory, with their Secwepemc names, and those of adjacent Interior Salish peoples. Notes on

general importance in the traditional Interior Salish economies, and on any special circumstances relating to individual species are also provided in Table 1.

In all, 14 coniferous species and 9 broad-leaves deciduous species (or groups of closely related species) are considered. Of these, six have individual folk generic-level names in Secwepemc. Only two of these (western larch and white pine) are obviously analyzable in Secwepemc, except for the suffix -e+p, or variants of it, indicating "plantness, which is used in at least 14 of the tree terms. In general, unanalyzability is taken as an indication of a term that is either very ancient, and has, over the years, lost its original meaning to most speakers of a language, or one that is borrowed from another language, where its original meaning may be still perceived (Hess n.d.). In the casc of Secwepemc, cognate forms at least some of these names are readily analyzable in other Salishan languages.

Historical linguistic relationships, however, are confounded by the development of so-called "folk etymologies," where the original meaning or derivation of a word may be obscured by the imposition of another, possibly culturally more appropriate, meaning. This semantic shift may be accompanied by a phonological shift to produce a better "fit" for its new meaning. For example, in English, the name, "strawberry," is actually derived, not from "straw," but from the old Anglo Saxon word, "*streow*," for "trailing long the ground," as in "strew." Similar folk etymologies are evident for the words, "dandelion," (originally from French "*dent de lion*"), and "Jerusalem artichoke" (originally from Italian "*girasole*" for "sunflower") (cf. Berlin 1972; Turner 1974). Other processes that occur in the development of language

include "translation borrowings," and semantic shifts of terms to apply to different, more culturally or ecologically salient species. Terms may also be applied to one species on the basis of a perceived relationship with another species, or, a basic term may apply to two or more types of plants, one of which is often the "type" plant of primary importance, and the other(s) subsumed within the sphere of influence of the first.

Nevertheless, the Secwepemc tree terms presented in Table 1 seem relatively unambiguous in their application, with the possible exception of the names for grand fir and subalpine fir.

Secwepemc Tree Terms in Relation to Tree Distribution

When Secwepemc tree terms are examined together with those of neighbouring Salish groups according to the known distribution patterns of the trees themselves, do any patterns emerge that might give insights into historical and geographical relationships?

Table 2 shows tree species falling within particular categories of cognate relationships, together with notations on the distributions of these species. A comparison of Secwepeme tree names with those of Chilcotin (Myers, Turner and Hebda, unpublished notes on Chilcotin ethnobotany, 1989), Kootenay (Hart 1974; Hart et al. 1978), and Sahaptin (Hunn 1990) reveals no apparent similarities or cognates, although note that the Okanagan name for tree willow is apparently related to the Sahaptin name.

With this relatively small sample of tree terms, there seems to be no obvious relationship between tree distribution and linguistic affiliation of Secwepemc tree names. However, there are some interesting potential relationships that need to be further investigated.

DISCUSSION

Tree Names, Tree Distributions and Linguistic Affinities

It may be notable that lodgepole pine, Rocky Mountain juniper and paper birch, all evidently of ancient and widespread occurrence in British Columbia's Interior, have names that are apparently unanalyzable, and have cognates in all five study languages. "Pine" (including both lodgepole pine and ponderosa pine) was an highly salient plant taxon among contemporary Secwepemc university students polled in a recent SCES/SFU Program ethnobotany class--a fact undoubtedly related to its common appearance in Secwepemc territory. On the other hand, western red cedar, a tree of recent origin to the area, and with a definite disjunct distribution (i.e. with a coastal occurrence, absent from the Interior Dry Belt, and re-occurring in the Interior Wet Belt), has a Secwepeme name affiliated only with Okanagan and Flathead. Another species with a disjunct distribution, whose Secwepeme name has eastern Salish affiliations only, is Engelmann spruce. Still, there are trees whose Secwepemc names are affiliated with Lillooet and Nlaka'pamux only, including one (Rocky Mountain maple), with continuous distribution. and one (whitebark pine) with restricted, timberline distribution across the Interior. Of the six species with apparently unique Secwepemc names, unrelated to those of the other languages, three (white pine, western hemlock

and cascara) have disjunct distributions, and three (mountain and green alders, willow, and choke cherry) have relatively continuous distributions.

12

Perhaps most significant in this comparison of tree terms is the sparcity of etymons encompassing Secwepemc, Lillooet and Nlaka'pamux exclusively, and the relatively large number of etymons encompassing Secwepemc, Okanagan, and Flathead. At the same time, a close affiliation between Lillooet and Nlaka'pamux is indicated, with several examples, especially in Lillooet, of affiliations with Coast Salish languages and/or Nuxalk (Bella Coola).

The Secwepemc share one major feature with Okanagan and Flathead which might give an answer to their apparently closer relationship vis-a-vis their nomenclature of trees: These three groups are further removed than Nlaka'pamux and Lillooet from the apparent Proto-Salishan homeland, as determined by Kinkade (1989), namely, the lower Fraser valley and environs. To arrive at their present locations, Secwepemc, Okanagan and Flathead peoples would all have had to traverse the Interior Dry Belt, where certain tree species -- those with disjunct distributions--would have been absent. Did such a migration occur before these three languages diverged? Such large scale movement of peoples may have occurred over a period of hundreds, or thousands, of years. Could the original (Proto-Salish) names for trees like western red-cedar have been forgotten in the interim? If so, new names for these trees would have had to have been developed when they were once again encountered. Would these new terms have been developed by an eastwardtravelling group of people, who came in contact with the Interior Wet Belt? Are the Secwepemc therefore more closely allied historically with the

Okanagan and Flathead, having broken away from them after crossing the Interior Dry Belt and moved northwards along the Interior Wet Belt?

Future Directions of Inquiry

Such speculations are only that. A much more comprehensive examination of the entire body of Secwepemc biological terms, and a determination of the distribution patterns of the plants and animals named, is needed before any real conclusions can be drawn. Other Salishan languages need to be drawn in to such a study. Columbian, for example, would be a key language to incorporate. Comparison with the biological lexicons of non-Salish languages such as neighbouring Athapaskan, and even Upper North Wakashan and Tsimshianic languages, could also prove valuable in contributing to the understanding of arboreal and other biological terms in Interior Salish and other indigen6030215820365 of British Columbia.

From an examination of 23 tree names in Secwepemc and four other Interior Salish languages, we found a greater affinity in terms of shared cognates among Secwepemc, Okanagan and Flathead than between Secwepemc, Lillooet and Nlaka'pamux. On the other hand, Lillooet and Nlaka'pamx tree names, have greater linguistic affiliations with each other, and for both there is a greater affiliation with Coast Salish tree names. Further comparative research on biological terms in Interior Salish languages is needed to determine if linguistic relationships are in any way related to biotic distributions, to other Salish arboreal terminology and to those terms in more geographically and linguistically distant languages. We hope to undertake further comparative analysis of Secwepemc plant names during the course of our three-year Secwepemc Ethnobotany Study. We have called this study "More than the Sum of the Parts," and, indeed, this description seems to fit.

ACKNOWLEDGEMENTS

We are grateful to the speakers of Secwepemc and other Aboriginal languages for their knowledge of plant terms, incorporated into this paper. Major Secwepemc contributors include: Bill Arnouse, Aimee August, Leslie Jules, Nellie Taylor, Mary Thomas and Ida William. Other Aboriginal consultants are named in the works referred to for their languages, as per the footnote in Table 1. Our work was facilitated by the Secwepemc Cultural Education Society and the Shuswap Nation Tribal Council. We would also like to thank the following people for their contributions: Dr. Dwight Gardiner; Dr. Jan van Eijk; Dr. M. Dale Kinkade; Dr. Laurence C. Thompson; M. Terry Thompson; Dr. Leslie Saxon; Dr. Bill Poser; Randy Bouchard; Dorothy Kennedy; Brian Compton; Alison Davis; Bob May; Ron Ignace; and Dr. Richard Hebda. The project was funded in part by a grant from the Social Sciences and Humanities Research Council of Canada (#410-91-0550) to the authors. (Others???)

REFERENCES

Berlin, Brent. 1972. Speculations on the growth of ethnobotanical nomenclature. <u>lournal of Language in Society</u> 1:63-98.

Berlin, Brent, Dennis E. Breedlove and Peter H. Raven. 1973. General principles of classification and nomenclature in folk biology. <u>American Anthropologist</u> 75: 214-242.

Berlin, Brent, Dennis E. Breedlove and Peter H. Raven. 1974. Principles of Tseltal Plant Classification. An Introduction to the Botanical Ethnography of a Mavan-Speaking People of Highland Chiapas. Academic Press, NY.

Bouchard, Randy and Dorothy Kennedy, British Columbia Indian Language Project, Victoria, personal communication, from unpublished field notes on Comox, 1973-1978.

Bouchard, Randy and Nancy J. Turner. 1976. <u>Ethnobotany of the Squamish</u> <u>Indian People of British Columbia</u>. Unpubl. Rpt. to the Squamish Indian Band. British Columbia Indian Language Project, Victoria.

Brown. Cecil H. 1977 Folk Rotanical Life Comment That It .

- Brown, Cecil H. 1984. <u>Language and Living Things. Uniformities in Folk</u> <u>Classification and Naming</u>. Rutgers University Press, New Brunswick, NJ.
- Elmendorf, William W. 1965. Linguistic and Geographic Relations in the Northern Plateau Area. <u>Southwestern Journal of Anthropology</u> 21:63-73.
- Fleisher, Mark S. 1980. The Ethnobotany of the Clallam Indians of Western Washington. <u>Northwest Anthropological Research Notes</u> 14(2): 192-210.
- Franklin, Jerry F. and C.T. Dyrness. 1973. <u>Natural Vegetation of Oregon and</u> <u>Washington.</u> United States Department of Agriculture, Forest Service General Technical Report PNW-8, Portland, OR.
- Galloway, Brent. 1982. Upper Stó:lo Ethnbotany. Coqualeetza Education Training Centre, Sardis, B.C.
- Garman, E.H. 1970. <u>Pocket Guide to the Trees and Shrubs in British Columbia</u>. British Columbia Forest Service, Department of Lands, Forests and Water Resources, Victoria, British Columbia.
- Hart, Jeff. 1974. <u>Plant Taxonomy of the Salish and Kootenai Indians of Western</u> <u>Montana</u>. Unpublished M.A. thesis, University of Montana, Missoula.
- Hart, Jeff. 1979. The Ethnobotany of the Flathead Indians of Western Montana. Botanical Museum Leaflets, Harvard University 27 (10): 261-307.

- Hart, Jeffrey A., Nancy J. Turner and Lawrence R. Morgan. 1978.
 <u>Ethnobotany of the Kootenai Indians of Western North America</u>.
 Unpublished Report to the Kootenay Indian Area Council, Cranbrook, British Columbia.
- Hess, Thom. n.d. <u>Borrowed Words and British Columbia Prehistory</u>. Unpublished ms., in author's possession, Department of Linguistics, University of Victoria, Victoria, British Columbia.
- Hock, Hans Henrich. 1986. <u>Principles of Historical Linguistics</u>. Mouton de Gruyter, Berlin, Germany.
- Hunn, Eugene S. (with James Selam and Family). 1990. <u>Nch'i-Wána "The Big</u> <u>River". Mid-Columbia Indians and Their Land</u>. University of Washington Press, Seattle.
- Kinkade, M. Dale. 1989. Prehistory of Salishan Languages. (Need full citation). Paper read at the 88th Annual Meeting of the <u>American</u> <u>Anthropological Association</u>, Washington, DC.
- Kinkade, M. Dale. 1991. <u>Upper Chehalis Dictionary</u>. University of Montana Occasional Publications in Linguistics, No. 7, Missoula.
- Krajina, V.J., K. Klinka and J. Worrall. 1982. <u>Distribution and Ecological</u> <u>Characteristics of Trees and Shrubs of British Columbia</u>. The University of British Columbia, Faculty of Forestry, Vancouver.

Kuipers, A. H. 1989. <u>A Report on Shuswap with a Squamish Lexical Appendix</u>.

Peeters-Selaf, Paris, France.

- Ministry of Forests. 1988. <u>Biogeoclimatic Zones of British Columbia</u> (Map). British Columbia Ministry of Forests, Victoria.
- Newman, Stanley. 1974. Linguistic Retention and Diffusion in Bella Coola. Language in Society 3:201-214.
- Palmer, Gary. 1975a. Shuswap Indian Ethnobotany. Syesis 8: 29-81.
- Palmer, Gary. 1975b. Cultural Ecology in the Canadian Plateau: Pre-Contact to the Early Contact Period in the Territory of the Southern Shuswap Indians of British Columbia. <u>Northwest Anthropological Research Notes</u> 9(2):199-245.
- Pielou, C.P. 1991. After the Ice Age. The Return of Life to Glaciated North America. The University of Chicago Press, Chicago and London.
- Ray, Verne. 1932. The Sanpoil and Nespelem: Salish Peoples of Northeastern Washington. University of Washington Publications in Anthropology, Vol. 5.
- Secwepemc Cultural Education Society. 1986. Introduction to the Shuswap. Shuswap Cultural Series, Book 1. SCES, Kamloops, British Columbia.

- Siebert, Frank T. Jr. 1967. The Original Home of the Proto-Algonquian People. Contributions to Anthropology: Linguistics I (Algonquian). National Museum of Canada Bulletin 214, Department of the Secretary of State, Ottawa.
- Taylor, T.M.C. 1973. <u>The Rose Family of British Columbia</u>. British Columbia Provincial Museum Handbook No. 30, Victoria.
- Teit, James A. 1909. <u>The Shuswap</u>. Vol. 2, Pt. 4, The Jesup North Pacific Expedition, Memoir of the American Museum of Natural History, New York. G.E. Stechert, New York.
- Teit, James A. 1973 (facsimile of orig., 1930). <u>The Salishan Tribes of the Western Plateaus</u>, edited by Franz Boas. Extract from Bureau of American Ethnology, 45th Annual Report, 1927-28), Smithsonian Institution, Washington, DC. Reprinted by Shorey Book Store, Seattle, WA).
- Trager, G. 1939. "Cottonwood" = "Tree": a Southwestern Linguistic Trait. International Journal of American Linguistics 9:117-118.
- Turner, Nancy J. 1973. The Ethnobotany of the Bella Coola Indians of British Columbia, <u>Svesis</u> 6:193-220.
- Turner, Nancy J. 1974. Plant Taxonomic Systems and Ethnobotany of Three Contemporary Indian Groups of the Pacific Northwest (Haida, Bella Coola and Lillooet). <u>Syssis</u> Vol. 7, Supplement 1.

- Turner, Nancy J. 1987. General Plant Categories in Thompson and Lillooet, Two Interior Salish Languages of British Columbia. <u>Iournal of Ethnobiology</u> 7(1):55-82.
- Turner, Nancy J. 1988a. "The Importance of a Rose": Evaluating Cultural Significance of Plants in Thompson and Lillooet Interior Salish. <u>American Anthropologist</u> 90(2):272-290.
- Turner, Nancy J. 1988b. Ethnobotany of Coniferous Trees in Thompson and Lillooet Interior Salish of British Columbia. <u>Economic Botany</u> 42(2):177-194.
- Turner, Nancy J. and Marcus A. M. Bell. 1971. The Ethnobotany of the Coast Salish Indians of Vancouver Island. <u>Economic Botany</u> 25(1): 63-104.
- Turner, Nancy J. and Marcus A. M. Bell. 1973. The Ethnobotany of the Southern Kwakiutl Indians of British Columbia. <u>Economic Botany</u> 27(3): 257-310.
- Turner, Nancy J., Randy Bouchard and Dorothy I.D. Kennedy. 1980.
 <u>Ethnobotany of the Okanagan-Colville Indians of British Columbia and Washington</u>. British Columbia Provincial Museum, Occasional Paper No. 21, Victoria, B.C.

- Turner, Nancy J., Randy Bouchard, Dorothy Kennedy and Jan Van Fijk. 1987. <u>Plant Knowledge of the Stl'atl'imx (Lillooet) People of British Columbia</u>. Unpublished ms., in possession of the first author, Environmental Studies Program, University of Victoria, Victoria, B.C.
- Turner, Nancy J. and Barbara S. Efrat. 1982. <u>Ethnobotany of the Hesquiat</u> <u>Indians of Vancouver Island</u>. British Columbia Provincial Museum (now Royal British Columbia Museum) Cultural Recovery Paper No. 2, Victoria.
- Turner, Nancy J., Richard J. Hebda and Timothy Montler. in prep. Some Important Plants of the Ts'enichlhen (Saanich) and Owutsun (Cowichan) People of Southern Vancouver Island. With Violet Williams and Elsie Claxton. Unpublished ms., Environmental Studies Program, University of Victoria.
- Turner, Nancy J., John Thomas, Barry F. Carlson and Robert T. Ogilvie. 1983.
 <u>Ethnobotany of the Nitinaht Indians of Vancouver Island</u>. British
 Columbia Provincial Museum (now Royal British Columbia Museum),
 Occasional Paper No. 24, Victoria.
- Turner, Nancy J., Laurence C. Thompson, M. Terry Thompson and Annie Z. York. 1990. <u>Thompson Ethnobotany: Knowledge and Usage of Plants by</u> <u>the Thompson Indians of British Columbia</u>. Royal British Columbia Museum, Memoir No. 3, Victoria, B.C.

Turner, Nancy J. and Jan Timmers. 1972. <u>Sechelt Plant Names</u>. Unpublished ms., in Turner's possession.

Witkowski, Stanley R., Cecil H. Brown, and Paul K. Chase. 1981. Where do Tree Terms Come From? <u>Man</u> (N.S.) 16:1-14. _____

Table 1. Secwepemc Tree Terms, with Names in Neighbouring Interior Salish Languages*

CONIFEROUS TREES	
Common Juniper	(Juniperus communis L)
Secwepemc	c'ic'axc'éxt, sc'exmernip
Lillooet	cík-cəkt-az' (?)
Nlaka'pamux	c'íc'x-c'ax-t
Okanagan	snc'ic'qpna? ('prickly')
Flathead	c'iqc'aqan-≀p ('prickly-plant'); juniper bush: q'®lástamn≀ (cí. q‴alí 'cook, roast, ripe, ripen')

(? see Haisla c'ixc'as hs g'ic'ialas 'swamp-evergreen leaves' for J. communis)

Rocky Mountain	Juniper (Juniperus scopulorum Sarg.)	
Secwepemc	pun-łp (P)	
Lillooet	pún-łap, pún-łp	
Nlaka'pamux	pún-∤p	
Okanagan	pun-łp	
Flathead	pún-łp	

(? see also Sahaptin pú.sh-a.sh (fruit: pu.sh) (for J. scopulorum and J. occidentalis)

Western Red-cedar (Thuja plicata Don ex D. Don)

Secwepemc	esta‴ (P); esta‴p (MBI; DG)
Lillooet	cátaw-az' (cf. Nuxalk cactaw-łp; Upper Chehalis catáwi)
Nlaka'pamux	k*át-łp, k*átk*-łp
Okanagan	mx-i∤p, astq‴
Flathead	áslk" (boughs - msh-ełp)

Grand Fir [Abies gran	dis (Dougl. ex D. Don) Lindl.]
Secwepemc	məlén-∤p (? mainly <i>A. lasiocarpa</i>)
Lillooet	məjin-təp/nmás-aka? (also <i>A. lasiocarpa</i>)
Nlaka'pamux	X'səłp/ Xəxt1'x-əkə? ('sweet branch')? (also A. Iasiocarpa, A. amabilis)
Okanagan	(s)t'ək=lí?łp (cf. t'ik= 'burst')/ məxíłp (mainly A lasiocarpa)
Flathead	q"ilcən
Subalpine Fir [Abies	lasiocarpa (Hook.) Nutt.]
Secwepemc	məlén-tp
Lillooet	məlin-təp/nmás-aka?
Nlaka'pamux	tl'sełp/ tl'axtl'x-aka? ('sweet branch') (also A. grandis)
Okanagan	(s)ťak*lí?łp (cf. ťik* 'bursť)/ ma¥íłp (also A. grandis)
Flathead	manín-łp (cf. max(i)m 'to heal' ?)
Western Larch (Larix	occidentalis Nutt.)
Secwepemc	ceq"éitcx" ('red bark')
Lillooet	-
Nlaka'pamux	cáq"-əlx (cf caq" 'red')
Okanagan	ciq"lx
Flathead	cáq″eish (cf. cəq′əix 'red' in Niaka'pamux)

•

84

.

Engelmann Spruce (*Picea engelmannii* Parry ex Engelm. and White Spruce [*P. glauca* (Moench) Voss]

• • •	
Secwepemc	xséłp
Lillooet	cáx-az/c'q'"-ałp [cf. Halkomelem - c'q"'-éłp (cf. c'éq" 'poke, pierce, stab') and ? Upper Chehalis cegáł, both for Sitka spruce]
Nlaka'pamux	cxa?z-éłp (? 1it. 'rustling-plant') (see note for Lillooet, above)
Okanagan	t'ést'əs-fip (lit. 'hard tree')/ c'fqc'əqt ('prickly')
Flathead	t'ast'es é (lit. 'hard leaf' ; sharp)
Whitebark Pine (Pin	us albicaulis Engelm.)
Secwepemc	scək'-éłp
Lillooet	s-c'ék' (edible seeds, cones), c'k'-óz' (tree)
Nlaka'pamux	s-c'ék' (edible seeds, cones), s-c'k'- é?i∤p (tree)

Okanagan sk'áwk'aw (edible seeds); sk'aw'k'aw'-{??p (tree) (cf. also Coeur d'Alene "sowi sttc" - Teit 1973:91)

Flathead

Lodgepole Pine (Pinus	contorta Dougl. ex Loud.)
Secwepemc	q"eq"lí?t
Lillooet	q"lít, q"lít-az
Nlaka'pamux	q"?ít/ q"i?t-éłp
Okanagan	q = aq=al,(st
Flathead	q"aq"alit

-

(cf. also ? Sechelt - qaqlín-ay; Comox - qaqyín?-ay; and Kwakwaka'wakw - qáqasal?ams (also for P. monticola)

White Pine	(Pinus monticola Dougl. ex D. Don)
Secwepemc	səl ćw∤ (lit. 'two-containers')
Lillooet	zax-almíx*-az' ('tall land plant')
Nlaka'pamux	zíx"e?,zix"eh-ćłp
Okanagan	۲٬۱۹۵۱هم (ti'iyí? 'bark canoe')
Flathead	čelp'a (approx.)

Ponderosa Pi	ne (Pinus	ponderosa	Dougl. ex	P. &	C. 1	awson)
Secwepemc		s?etq"łp (P)				
Lillooet		(s-)?ápłq"-az',	,			·
Nlaka'pamux		s-?étq"-łp				
Okanagan		s?átq"-}p,				
Flathead		sa?atk"-łp				

Douglas-fir [Pseudots	uga menziesii (Mirb.) Franco]
Secwepemc	cq'ełp
Lillooet	s-४ap-?úl (lit. 'real-tree') (but cf. c'q'áq'lap - Douglas- fir sapling)
Nlaka'pamux	c'g'-áłp (lit. ?sticky-plant')
Okanagan	c'q'-l}p
Flathead	qf à - 'p

347 - 4	** *	E cm		10 61	~ 1
Western	Hemiock	1/51102	heterophylla	I Kat I	Narg I
	II.C.M.IOCK	[10054	meter opiny ma	(10041.)	Out 2.1

Secwepemc	poptnéntk"-łp/t'neýtk"-łp
Lillooet	p'ú×tn-az'
Nlaka'pamux	x"ik" əstn-éłp ('scrubber-plant')
Okanagan	· •
Flathead	płtińć (? 'thick-')

Western Yew (Taxus	brevifolia Nutt.)
Secwepemc	skaník (BC, DG; orig. Dawson 1891:17)
Lillooet	xəmq'-éz' (cf. Straits Salish xən g'q'-iłč; Squəmish xəmq'-éy ; Upper Chehalis xémq'ł; Kwakwaka'wakw xə´mq'i; Henaksiala/Haisla xmq'əs; Heiltsuk xmq'és; Oowekyala xmq'əs)
Nlaka'pamux	t'é?x"-əłp (cf. Helkomələm téx"əc (lit. 'bow-plant'), OR ck-ín'ək, OR ck-ín'ək-éłp ('hew-plant')
Okanagan	ck"ink ('bow'); OR nək"núk" (cf. Ray 1932)
Flathead	ck"hčá (lit. 'bow-wood')

DECIDUOUS TREES			
Rocky Mountain Ma	ple (Acer glabrum Torr.)		
Secwepemc	c'weitn (P)		
Lillooet	c'wáłtn-az'		
Nlaka'pamux	c'o¾"tn-éłp (lit. 'scabby-plant')		
Okanagan	spak"m-í łp		
Flathead	sx"uXulá		

(7 see Henaksiala/Haisla c'awikalas 'snowshoe tree')

.

,

Mountain and Green	Alders (Alnus crispa L.; A. tenuifolia Nutt.)
Secwepemc	k"ək"l-?étp , k"lə-?étp
Lillooet	zésew-ez' (cf. Halkomelem wésewey; Squamish yésew-ey)
Nlaka'pamux	zəsu?s-éłp ('forest plant') (see note for Lillooet, above)
Okanagan	k'i?k'i?tn'-{łp (? lit. 'dry, dry-tree' - Ray 1932, for Sanpoil/Nespelem, <i>A. tenuifolia</i>)
Flathead	č'ičitané (possessive, short for č'ičitan-éłp)

Paper, or White Birch	(Betula papyrifera Marsh.)
Secwepemc	q"eqwłiłn-łp
Lillooet	q"əł?in-áz'
Nlaka'pamux	q"łín'-łp
Okanagan	q"łin
Flathead	q"łh-álq" (cf. q"ł 'dusty/dirty'; -alq" 'round')
Cottonwood, or Balsar ex Hook.)	n Poplar (Populus balsamifera Torr. & Gray.
Secwepemc	mulx
Lillooet	nəq"-niq"-əz' [cf. Upper Chehalis niq"'+, Squamish q"əniq"'-əy and Kwakwaka'wakw q"əniq"' , OR q"əniq" for cottonwood] [but NOTE: miməix 'bushy' cognate with Sec and Ok mulx]
Nlaka'pamux	nad"-níd"-ac'(-éłp) (cf. note under Lillooet, above); mulx (Nicola Valley); [NOTE: muyx 'bush' is cognate with Sec and Ok mulx)
Okanagan	mulx
Flathead	múlsh (cf. mul- 'to dip water')
Trembling Aspen, or	White Poplar (Populus tremuloides Michx.)
Secwepemc	məlməltətétłp (P)
Lillooet	wów-alckza?/c'ánxn-az' (Pamb)
Nlaka'pamux	wəl-wəlc-é∤p ('shivering-plant')
Okanagan	miaimait-í∤p
Flathead	mimité (lit. 'shimmering leaves')

Ĩ

•

Note: name means 'dancing-plant' in Straits Salish and Cowichan Halkomelem, and 'shimmering-leaves' in Squamish.

.

•

Bitter Cherry (Prunus	emarginata (Dougl. ex Hook.) Walpers
Secwepemc	paktén (also pin cherry (Prunus pensylvanica L)]
Lillooet	pssúss-az'/?íw'x"-az'
Nlaka'pamux	spez-ess-éłp/ pekłén (bark) (cf. Nuxalk płtkn-łp (bark: płtkn)]
Okanagan	pékłán' (bark)/pekłn'íłp
Flathead	•

Choke Cherry	(Prunus virginiana L)
Secwepemc	tk"lsə?éłp (P)
Lillooet	zə ik"ú?-az'
Maka'pamux	zəlk"u?−ćłp
Okanagan	łaxʷłxʷ-ſłp (cſ. Halkomelem łaxʷ-łéxʷ (cſ. łxʷ-ót 'spit-it-out'; Tait dialect)
Flathead	łჯ≂łჯ≂-áłk≃ (fruit: łx≊łó) (cf. also Coeur d'Alêne "táxłEx" - Teit 1973:88)

Cascara (Rhamnus	purshiana DC.)
Secwepemc	tén-tn
Lillooet	q'áy x-təp/q'áyx-tn lcf. Halkomelem q'éyx-ətp (cf. q'éyx 'black') and Straits Salish q'éyx-ətp]
Nlaka'pamux	gʻáyx-słp (see note for Lillooet, above)/stx-áyg‴
Okanagan	kteptapsálaq"
Flathead	čaq‴iq‴isá (cſ. q‴i 'belch')

Pacific Willow and other large Willow species (Salix lasiandra Benth.; Salix spp.)

Secwepemc	q~əlsétp (P)
Lillooet	x"ú?l'-əz' (firedrill plant') (cf. ? Squamish x"áý-əy ("pussy willow"), and Helkomelem xélcep-ełp (lit. 'firedrill-plant' - <i>S. lasiandre</i>)]; OR txéłp-ez'
Nlaka'pamux	zúy-yaq" tek st×-áłp/swu?ł-éłp/swewł-éłp ('íish piant')
Okanagan	hew-1??p [c1. Sahaptin hehéw (S. amygdaloides)]
Flathead	oʻawq;awpul ('habitual mover'); OR ppú

ميد حدد حد 40 40 40 ميد بيد بيد بيد مل 40 40 م

Note: The following Lillooet and Nlaka'pamux tree names, not listed in Table 1, are cognate with Coast Salish forms: flowering dogwood, broadleaved maple, and red alder.

* Terms are taken from the following sources:

Secwepemc: most originally from Palmer 1975; all checked with contemporary Secwepemc speakers by MBI, and/or BDC and/or Dwight Gardiner; analysis checked in Kuipers 1989; Lillooet: Turner et al. 1987; Nlaka'pamux (Thompson): Turner et al. 1990; Okanagan: Turner, Bouchard and Kennedy 1980; Flathead: Hart 1974, 1979; Halkomelem: Galloway 1982; Turner, Hebda and Montler. in prep.; Squamish: Bouchard and Turner 1976; Sechelt: Turner and Timmers 1972; Comox Bouchard and Kennedy, British Columbia Indian Language Project, Victoria, personal communication, from unpublished field notes, 1973-1978; Nuxalk (Bella Coola): Turner 1973; Upper Chehalis: Kinkade 1990; Sahaptin: Hunn 1990; Kwakwaka'wakw: Turner and Bell 1973; Upper North Wakashan, including Henaksiala/Haisla, Heiltsuk, and Oowekyala - notes from BDC's unpublished doctoral research; Kootenay: Hart 1974. Table 2. Linguistic Affinities of Secwepemc (Shsuwap) Tree Names, With Notes on Distribution and Traditional Uses of Tree Species [Note: Sec = Secwepemc; NI = Nlaka'pamux (Thompson); Li = Lillooet; Ok = Okanagan; Fl = Flathead]

Affinity Class	Tree	Distribution	Major Traditional
for Secwepemc	Species		Uses*
Name			

pineCoast to Rocky mts, except driest valleys of interiorfuel, construction; pitch for medicinal salve walleys of interior1paper birchwidespread in moist areas from Coast to Rocky mtsbark for containers; wood for fuel coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedarCoastal forests to east side of Interior wet beltroots for coiled baskets; wood for dugout canoes (inner bark little used by interior peoples)2Engelmann and white spruceInterior forests Rocky mts; absent along waterwaysbark for containers; wood for fuel; pitch for dugout canoes, fuel, contruction; bark and bud resin for medicine2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,				
Li, Ok and Fl)juniperRocky mtsfumigant; medicine;1lodgepolewidespread fromcamblum eaten; wood forpineCoast to Rockyfuel, construction; pitchmts, except driestfor medicinal salvevalleys of interiorpaperwidespread inbark for containers;birchmoist areas fromcognate with Okred-cedarand/or Flathead,Cascades, then inbut not NI or Li)Interior forests2Engelmann2Engelmannand whitefrom Cascades tospruceRocky mts; absentfrom dry interiorinner bark eaten; bark2blackwidespreadinner bark eaten; barkalong waterwaysinner bark eaten; bark and bud resin for medicine2tremblingcontruction; bark and bud resin for medicine2trembling2trembling2trembling2trembling2trembling3common and4wood for construction,	1 (Sec name	Rocky	dry interior zone;	wood for bows; boughs
1lodgepole pinewidespread from Coast to Rocky mts, except driest valleys of interiorcambium eaten; wood for fuel, construction; pitch for medicinal salve wood for fuel Coast to Rocky mts1paper birchwidespread in moist areas from Coast to Rocky mtsbark for containers; wood for fuel coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western Interior forests and white from Cascades to from Cascades to Rocky mts; absent medicinal salveroots for coiled baskets; wood for dugout canoes bark for containers; wood for fuel; pitch for spruce Rocky mts; absent along waterways2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine2trembling common andinner bark and bud resin for medicine	cognate with Nl,	Mountain	east of Cascades to	used as incense,
pineCoast to Rocky mts, except driest valleys of interiorfuel, construction; pitch for medicinal salve walleys of interior1paper birchwidespread in moist areas from Coast to Rocky mtsbark for containers; wood for fuel coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedarCoastal forests to east side of Interior wet beltroots for coiled baskets; wood for dugout canoes (inner bark little used by interior peoples)2Engelmann and white spruceInterior forests Rocky mts; absent along waterwaysbark for containers; wood for fuel; pitch for dugout canoes, fuel, contruction; bark and bud resin for medicine2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,	Li, Ok and Fl)	juniper	Rocky mts	fumigant; medicine;
mts, except driest valleys of interiorfor medicinal salve valleys of interior1paper birchwidespread in moist areas from Coast to Rocky mtsbark for containers; wood for fuel coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedarCoastal forests to east side of Cascades, then in Interior wet belt by interior peoples)roots for coiled baskets; wood for dugout cances by interior peoples)2Engelmann and white from Cascades to spruceInterior forests Rocky mts; absent along waterwaysbark for containers; wood for fuel; pitch for dugout cances, fuel, contruction; bark and bud resin for medicine2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout cances, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,	1	lodgepole	widespread from	cambium eaten; wood for
valleys of interior1paper birchwidespread in moist areas from coast to Rocky mtsbark for containers; wood for fuel coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedar cascades, then in Interior wet belt from Cascades to Rocky mts; absent from dry interiorroots for coiled baskets; wood for dugout cances by interior peoples)2Engelmann spruceInterior forests Rocky mts; absent along waterwaysbark for containers; wood for fuel; pitch for spruce2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout cances, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,		pine	Coast to Rocky	fuel, construction; pitch
1 paper widespread in bark for containers; birch moist areas from wood for fuel Coast to Rocky mts Coast to Rocky mts 2 (Sec name western Coastal forests to cognate with Ok red-cedar east side of and/or Flathead, Cascades, then in (inner bark little used but not NI or Li Interior wet belt by interior peoples) 2 Engelmann Interior forests bark for containers; and white from Cascades to wood for fuel; pitch for spruce Rocky mts; absent medicinal salve from dry interior for containers; wood for 2 black widespread inner bark eaten; bark cottonwood throughout, esp. for containers; wood for along waterways dugout canoes, fuel, contruction; bark and bud resin for medicine yood for construction, wood for construction,			mts, except driest	for medicinal salve
2 (Sec name cognate with Ok red-cedar and/or Flathead, but not NI or Li) moist areas from costs for coiled baskets; mood for dugout cances and white from Cascades, then in therior wet belt by interior peoples) 2 Engelmann Interior forests bark for containers; and white from Cascades to spruce Rocky mts; absent for dry interior 2 black widespread throughout, esp. along waterways dugout cances, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,			valleys of interior	
Coast to Rocky mts2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedar east side of Cascades, then in Interior wet beltroots for coiled baskets; wood for dugout cances by interior peoples)2Engelmann and white spruceInterior forests Rocky mts; absent from dry interiorbark for containers; wood for fuel; pitch for medicinal salve for containers; wood for uld gout cances, fuel, contruction; bark and bud resin for medicine2black cottonwood throughout, esp. along waterwaysinner bark eaten; bark for containers; wood for dugout cances, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,	1	paper	widespread in	bark for containers;
2 (Sec name cognate with Ok and/or Flathead, but not NI or Li)western red-cedarCoastal forests to east side of Cascades, then in Interior wet beltroots for coiled baskets; wood for dugout cances (inner bark little used by interior peoples)2Engelmann and white spruceInterior forests Rocky mts; absent from dry interiorbark for containers; wood for fuel; pitch for medicinal salve2black cottonwood along waterwaysinner bark eaten; bark for containers; wood for dugout cances, fuel, contruction; bark and bud resin for medicine2trembling common andwood for construction,		birch	moist areas from	wood for fuel
2 (set name western costan for the form of the form o			Coast to Rocky mts	
and/or Flathead, but not NI or Li)Cascades, then in Interior wet belt(inner bark little used by interior peoples)2Engelmann and white spruceInterior forests Rocky mts; absent from dry interiorbark for containers; wood for fuel; pitch for medicinal salve for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine2black contruction; bark and bud resin for medicine2trembling common andwood for construction,	2 (Sec name	western	Coastal forests to	roots for coiled baskets;
2 Engelmann Interior wet belt by interior peoples) 2 Engelmann Interior forests bark for containers; and white from Cascades to wood for fuel; pitch for spruce Rocky mts; absent medicinal salve from dry interior Inner bark eaten; bark 2 black widespread along waterways for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine 2 2 trembling common and	cognate with Ok	red-cedar	east side of	wood for dugout canoes
2 Engelmann Interior forests and white from Cascades to spruce Rocky mts; absent from dry interior bark for containers; wood for fuel; pitch for medicinal salve from dry interior 2 black widespread inner bark eaten; bark cottonwood throughout, esp. along waterways dugout canoes, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,	and/or Flathead,		Cascades, then in	(inner bark little used
2 Ingenium interior and white from Cascades to spruce From Cascades to medicinal salve from dry interior 2 black widespread inner bark eaten; bark cottonwood throughout, esp. along waterways dugout canoes, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,	but not NI or Li)		Interior wet belt	by interior peoples)
spruce Rocky mts; absent from dry interior medicinal salve 2 black cottonwood along waterways inner bark eaten; bark for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine 2 trembling common and common and	2	Engelmann	Interior forests	bark for containers;
2 black widespread cottonwood throughout, esp. along waterways inner bark eaten; bark for containers; wood for dugout cances, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,		and white	from Cascades to	wood for fuel; pitch for
2 black widespread cottonwood throughout, esp. along waterways inner bark eaten; bark for containers; wood for dugout canoes, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,		spruce	Rocky mts; absent	medicinal salve
2 oracle interpreter		-	from dry interior	
along waterways dugout canoes, fuel, contruction; bark and bud resin for medicine 2 trembling common and wood for construction,	2	black	widespread	inner bark eaten; bark
2 trembling common and wood for construction,		cottonwood	throughout, esp.	for containers; wood for
2 trembling common and wood for construction,			along waterways	dugout canoes, fuel,
2 trembling common and wood for construction,				contruction; bark and
2 In Carlothing Common and				bud resin for medicine
	2	trembling	common and	wood for construction,
aspen widespread fuel; bark for medicine		aspen	widespread	fuel; bark for medicine
throughout			throughout	

3 (Sec name	ponderosa	dry interior zone;	inner bark eaten; wood
cognate with Ok,	pine	east of Cascades to	for construction, fuel;
FI and NI, but not		Rocky mts	pitch for medicinal
LI)			salve
3	Douglas-fir	common and	sugar produced from
		widespread	boughs eaten; boughs
		throughout	used for flooring, pit-
			cooking; pitch for
			medicinal salve
3	bitter	general	bark used for cordage,
	cherry	throughout,	decoration of cedar-roo
		except driest	baskets
		Interior zone	
3	common	occurs	"berries" chewed
	juniper	throughout in	casually; boughs used
		upland forests	for medicine
3	Pacific yew	Coastal forests to	tough wood used for
		east side of	bows, snowshoe frames
		Cascades, then in	
		Interior wet belt	
4 (Sec name	whitebark	timberline tree of	large seeds eaten; an
cognate with Nl,	pine	Cascades, Rockies	important food for man
Li, but not Ok		and ranges west	
and/or Fl)		of Rockies	
4	Rocky	common and	inner bark used for
	Mountain	widespread	cordage; wood for
	maple	throughout	snowshoe frames,
	-		construction
5 (Sec name	subalpine	Interior forests	boughs used for
cognate with Li,	fir	from Cascades to	bedding, incense; pitch
		· · · · · · · · · · · · · · · · ·	
Ok, Fl but not Nl)		Rocky mts; absent	and bark an important

.

Τ.	1	1
1 -	1.	1

6 (Sec name	white pinc	Coastal forests to	bark used for
unrelated to Li,		east side of	containers, canoes;
NI, Ok or FI)		Cascades, then in	pitch and bark for
		Interior wet belt	medicine
6	western	Coastal forests to	boughs for scrubbers in
	hemlock	east side of	ritual bathing; pitch and
		Cascades, then in	bark for medicine
		Interior wet belt	
6	mountain	moist sites,	bark used for red dye,
5. 5.	alders	especially	and for medicine
		montane, from	
		Coast to Rockies	
6	cascara	Coastal forests to	bark used as laxative
		east side of	medicine and tonic
		Cascades, then in	
		Interior wet belt	
6	willow	common in moist	inner bark used for
	(tree)	sites throughout	cordage; wood for fire-
			making; bark, leaves
			used for medicine
6	choke	common and	fruits eaten; bark used
	cherry	widespread	for medicine
	-	throughout	

* Most of these applications are general for Interior Salish. For further details on use, refer to Palmer (1975), Turner (1978, 1979, 1988b), Turner et al. 1980, 1990.