Scoping Initiative Meeting Report for the Big Valley Rancheria
July 29, 2004
Clear Lake Regional Pesticide Environmental Risk Project

Project contact for the Tribe

Sarah Ryan

Identify current pesticide concerns for the Tribe

- Pesticide overspray from nearby pear orchards and vineyards
- Invasive species from the vineyard (what might be coming in on the vines)
- Exposure for pesticide applicators
- Plants including tules

List plant and animal species and/or groups specific to Tribal use and areas these are collected (as allowed by specific Tribal norms and etiquette).

See Table. An etiquette issue arose with angelica.

Locate SAPs and QAPPs with applicable information.

Tribe has multiple sampling QAPPs and SAPs including both pending and current ones for pesticide sampling.

Identify possible pesticide use in the area including agricultural, urban and lake application.

Lake application occurs along Rancheria shoreline and agricultural (pears and vineyards) occurs adjacent to the Rancheria.

Discuss possible sources of information for pesticide use.

Tribe has a pesticide review and additional information in an approved SAP

Schedule a follow up meeting.

Lunch with additional elders on next visit to BVR. Sarah will set up the meeting.

Other comments

- Tribe does not use aquatic plants
- Tribal members do consume tule bulbs
- Tribal members believe their Tule beds near and on the Reservation are stable in size
- Traditionally consume small game including squirrels
- Follow up of interest – lightning worm, ceremonial collection or just a tasty treat with a party?
- Plant use and diet habits vary among families
- Some disagreement on if angelica is an understory or meadow plant (most likely both)
- Little hunting at this time. Hunting will be off Rancheria

- Historic diet including seaweed that may have been both collected and a trade good for the Tribe (very good dried then quickly fried in bacon grease at the smoke point)
- Dentalia shells may have been the currency for purchasing trade goods including seaweed

Summary

Current use of traditional plants is, as expected, a fraction of past traditional use. Limits are basically due to reduction of collection areas and availability of other foods. However, some plants still are important and regularly used such as angelica and tules. Delicacies were also mentioned including angelica leaves and elephant ears. Younger members were aware of the use of these plants and expressed appreciation for their use. The basket weavers were not at the meeting, but dogbane was discussed as "Indian hemp".

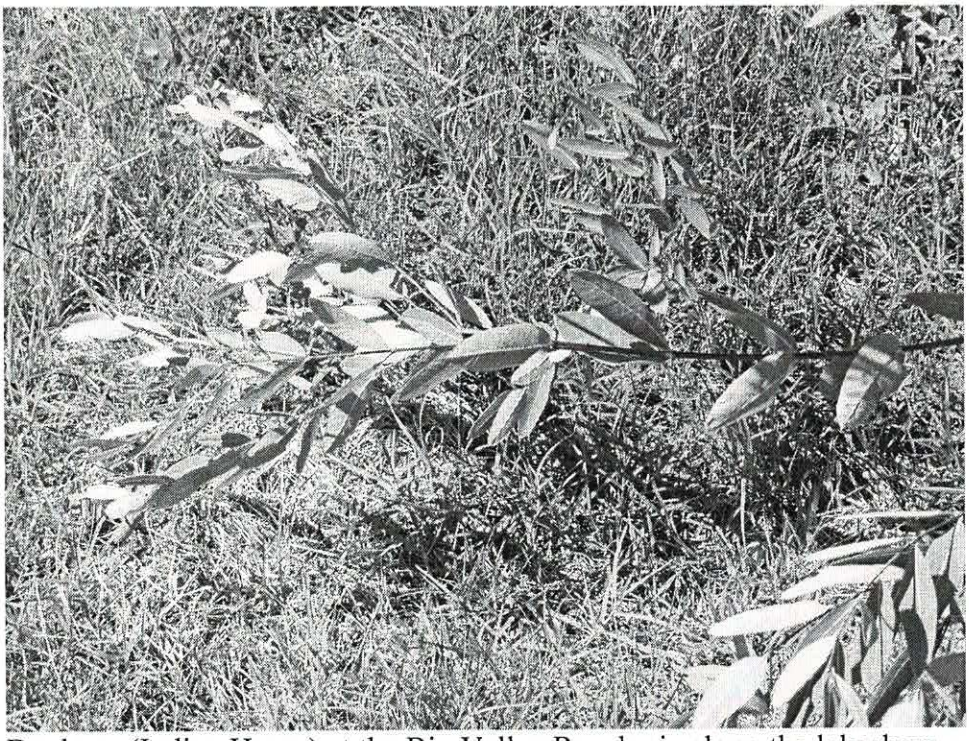
The lighting worm discussion was very interesting and may reflect both a food and ceremonial aspect. Since this event may be distinct for this group and attractive to younger members (unscheduled evening event with a "dare you to do it" activity), it should be mentioned to other program directors of the Tribe.

Pesticide application for review includes that which is adjacent to the Rancheria plus lake applications (tules) and forest application (elephant ear and angelica). Additional work will be required to describe and name elephant ear mushrooms.

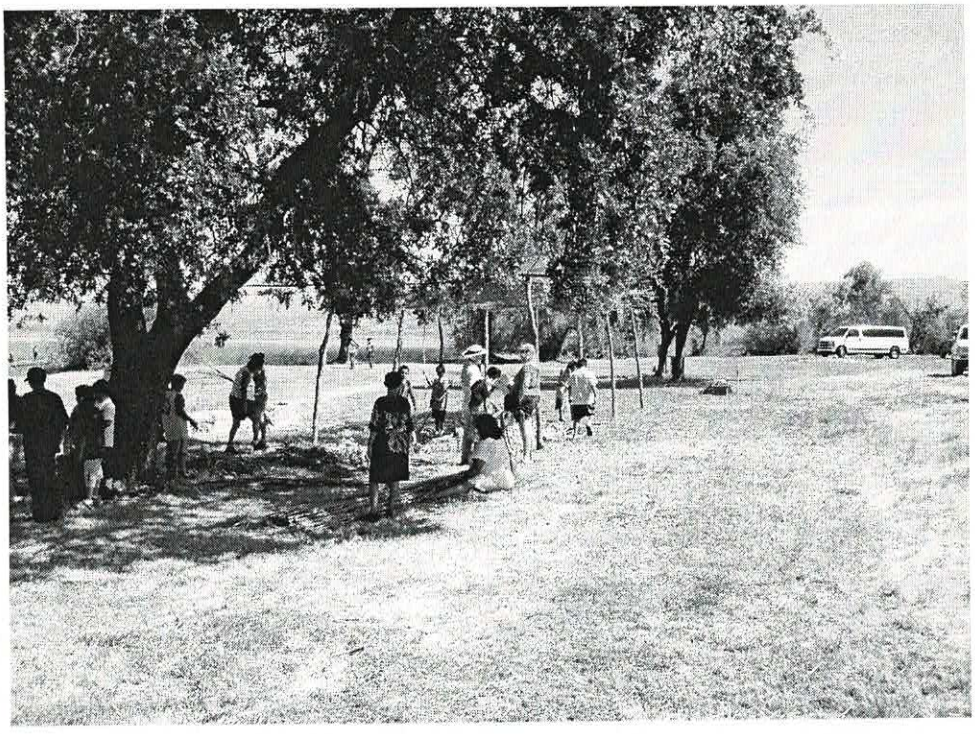
One Tribal elder (Junior) dominated the discussion. Younger members obviously are reluctant to join in the conversation out of respect. Later side conversations were critical to a balanced overview.

Suggested Program Changes

- Multiple meeting that include groups of just younger members. It is important to identify activities that are carrying over well into the next generation and give these priority (more members may be exposed through the more popular activities).
- Continue to separate activities that are culturally significant, delicacies and those that are of more subsistence nature
- Find a way to use maps to better determine collection areas for at least types of areas. However, maps may reduce how open Tribal members discuss sensitive traditional or traditional pharmacological uses.
- Not all attendees are on the sign in sheet. Some of the elders may be near illiterate so better notes on names and attendees is required.



Dogbane (Indian Hemp) at the Big Valley Rancheria along the lakeshore.



Tule boat making at the Big Valley Rancheria. Note the structure in the background, willow branches structure with tules for a roof.

Plant	Use	General Area Found	Other Plants Assoc.	Consumed	Tribe Referenced
Tule	Many	Lake/wetland		Yes – bottom stem and bulb	BVR
Dogbane	Rope	Wetland, riparian	Tule	No	BVR
Angelica	Root Medicinal, Cultural Young leaves – spring food			Yes – root for medicinal, Spring greens consumed	BVR – not open about use
Willow	Frame for sweatlodge, other structural	Wetland and riparian		No	BVR – used on sweatlodge frame
Oak (acorns)	Food	Throughout area, not a wetland or riparian species		"Acorn mush"	BVR – still consumed by older members, not a favorite among younger ones, may have been a stable subsistence dish
Elephant Ears (mushroom)	Food – may be a delicacy	Forest to near wetland	Oaks and Cottonwoods	Yes	BVR

Table 15. (Continued) List of culturally significant plants for Lake County Pomo. The list are derived from Moerman (1998), Chesnut (1902), Goodrich et al. (1980) and interviews with Tribal members.

Species	Common Name	Use
Salix sitchensis	Sitka willow	fuel
Salvia columbariae	chia	staple
Sambucus racemosa	elderberry	dermitological aid
Sanicula tuberosa	turkey pea	unspecified
Satureja douglasii	Kuntze yerba buena	blood medicine, dietary aid, gastrointestinal aid
Scirpus acutus	hardstem bulrush (tule)	vegetable, basketry, canoe material, clothing
Scirpus maritimus	cosmopolitan bulrush	basketry
Scirpus robustus	sturdy bulrush	vegetable, basketry, building material, clothing, mats, rugs and bedding
Scrophularia californica	figwort	dermitological aid
Sequoia sempervirens	Redwood	Ear medicine, stimulant, tonic
Taxus brevifolia	Pacific yew	Basketry, cooking tools, hunting and fishing tool
Thermopsis macrophylla	goldenbanner	eye medicine
Torreya californica	California nutmeg	tuburculosis remedy, basketry, tools
Toxicodendron diversilobum	Pacific poison oak	dye
Trifolium sp.	clover	atiemetic
Triteleia grandiflora	largeflower triteleia	vegatable
Triteleia hyacinthina	white brodiaea	unspecified
Triteleia laxa	Ithuriel's spear	unspecified
Triteleia penduncularis	long-ray brodiaea	unspecified
Typha latifolia	broadleaf cattail	vegetable, clothing
Umbellularia californica	California laurel (bay)	analgesic, antirheumatic
Urtica dioica	stining nettle	analgesic, antirheumatic
Vaccinium ovatum	California huckleberry	dried food, fruit, pie and pudding
Vitis californica	California wild grape	fruit, basketry
Woodwardia radicans	rooting chainfern	cooking tools
Wyethia angustifolia	California compassplant	staple
Wyethia longicaulis	California compassplant	staple

Table 1. List of culturally significant plants for Lake County Pomo. The list is derived from Moerman (1998), Chesnut (1902), Goodrich et al. (1980) and interviews with Tribal members.

Species	Common Name	Use
Acer macrophyllum	bigleaf maple	toys and games
Adiantum pedatum	northern maidenhair FERN	tools
Aesculus californica	California buckeye	poison
Agaricus campestris	common field mushroom	vegtable
Allium unifolium	oneleaf onion	spice,unspecified
Alnus rhombifolia	white alder	dermitological aid, pediatric aid
Amelanchier alnifolia	serviceberry	gynecological aid
Apium graveolens	wild celery (angelica)	panacea, vegatable
Apocynum cannabinum	dogbane	cordage
Aralia californica	California spikenard	dermitological aid,panacea
Arbutus menziesii	Pacific madrone	dermitological aid, fruit
Arctostaphylos columbiana	manzanita	Antidiarrheal
Arctostaphylos glandulosa	manzanita	unspecified
Arctostaphylos manzanita	Konocti manzanita	soap
Arctostaphylos tomentosa	manzanita	dried food, porridge
Artemisia ludoviciana	white sagebrush	building material
Artemisia vulgaris	common wormwood	dermitological aid, gynecological aid
Asarum caudatum	wildginger	dermitological aid
Asclepis sp.	milkweed	basketry
Avena fatua	wild oat	staple, winter food
Avena sativa	common oat	unspecified
Boisduvalia densiflora	denseflower willowherb	staple
Brodiaea coronaria	brodiaea	unspecified
Calochortus pulchellus	Mount Diablo fairy-lantern	unspecified
Calochortus vestae	coast range mariposa lily	unspecified
Calycanthus occidentalis	western sweetshrub	cold remedy
Carex barbarae	Santa Barbara sedge	basketry, cordage, hunting and fishing item, lighting
Carex mendocinensis	Mendocino sedge	basketry, cordage, hunting and fishing item,lighting
Carpobrotus aequilateralus	sea fig	fruit
Castanopsis chrysophylla	giant chinquapin	dried food, unspecified
Ceanothus oliganthus	hairy ceanothus	tools
Cercis canadensis	eastern redbud	basketry
Cercis occidentalis	California redbud	basketry

Table 15. (Continued) List of culturally significant plants for Lake County Pomo. The list are derived from Moerman (1998), Chesnut (1902), Goodrich et al. (1980) and interviews with Tribal members.

Species	Common Name	Use
Chlorogalum pomeridianum	wavyleaf soap plant	dermitological aid, cooking tools
Clintonia andrewsiana	Andrew's clintonia	poison
Convolvulus arvensis	field bindweed	gynecological aid
Corylus californica	California hazelnut	basketry
Corylus cornuta	California hazelnut	basketry, cooking tools, hunting and fishing item
Croton setigerus	dove weed	antidiarrheal, poison
Dichelostemma pulchellum	bluedicks	unspecified
Dichelostemma volubile	twining snakelily	unspecified
Eriodictyon californicum	California yerba santa	expectorant
Fragaria vesca	woodland strawberry	fruit
Frangula californica	California buckthorn	laxative, poison
Gaultheria shallon	Pursh salal	fruit
Gnaphalium sp.	American everlasting	dermitological aid, pediatric aid
Gnaphalium stramineum	cottonbatting plant	dermitological aid
Hemizonia clevelandii	Babcock & Hall hayfield tarweed	staple
Hemizonia luzulifolia	hayfield tarweed	staple
Heracleum maximum	common cowparsnip	antirheumatic, dermitological aid
Heteromeles arbutifolia	toyon	fruit
Holodiscus discolor	oceanspray	hunting and fishing tool
Iris macrosiphon	bowltube iris	gynecological aid, hunting and fishing tool
Iris tenuissima	longtube iris	gynecological aid
Juncus balticus	Baltic rush	basketry, tools
Juniperus occidentalis	western juniper	basketry
Ligusticum apiifolium	Gray celeryleaf licorice-root	antihemorrhagic, pulmonary aid
Lithocarpus densiflorus	tanoak	bread and cake, porridge, soup
Lolium temulentum	Darnel ryegrass	staple
Lonicera hispidula	pink honeysuckle	smoking tools
Lupinus arboreus	yellow bush lupine	cordage
Madia capitata	coast tarweed	staple
Madia elegans	common madia (showy tarweed)	staple

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Species	Common Name	Use
Madia gracilis	grassy tarweed	staple
Madia sativa	coast tarweed	porridge, staple, winter food
Marah fabaceus	California manroot	□ermatological aid, hunting and fishing tool
Melica bulbosa	oniongrass	porridge
Oxalis oregana	redwood-sorrel	antirheumatic
Perideridia gairdneri	Gardner's yampah	staple, vegetable
Perideridia kelloggii	(Gray) Mathias/Kellogg's yampah	Antiemetic, staple
Phoradendron villosum	mistletoe	Abortifacient
Pinus lambertiana	sugar pine	basketry
Pinus muricata	Bishop pine	basketry, fuel
Pinus sabiniana	California foothill pine	fasterners, hunting and fishing tool
Polyporaceae Polyporus	bracket fungi (elephant ears?)	
Polystichum munitum	narrowleaf swordfern	cooking tools
Pseudotsuga menziesii	Douglas-fir	fuel
Pteridium aquilinum	western brackenfern	basketry
Quercus agrifolia	California live oak	unspecified
Quercus chrysolepis	canyon live oak	bread and cake
Quercus garryana	Oregon white oak	bread and cake, porridge, hunting and fishing tool
Quercus kelloggi	California black oak	bread and cake, fuel
Quercus lobata	California white oak	bread and cake, porridge
Ranunculus occidentalis	western buttercup	staple
Rhododendron macrophyllum	Pacific rhododendron	Decorations
Rhododendron occidentale	western azalea	Decorations
Rhus trilobata	sumac	basketry
Rorippa nasturtium-aquaticum	watercress	vegatable
Rubus leucodermis	whitebark raspberry	fruit, winter food
Rubus parviflorus	thimbleberry	fruit, cooking tools
Rubus spectabilis	salmonberry	fruit
Sagittaria latifolia	broadleaf arrowhead	unspecified
Salix exigua	narrowleaf willow	basketry
Salix sessilifolia	northwest sandbar willow	basketry