TPPC - Pollinator Protection Workgroup

Brady Kent

YN DNR

Ag Development

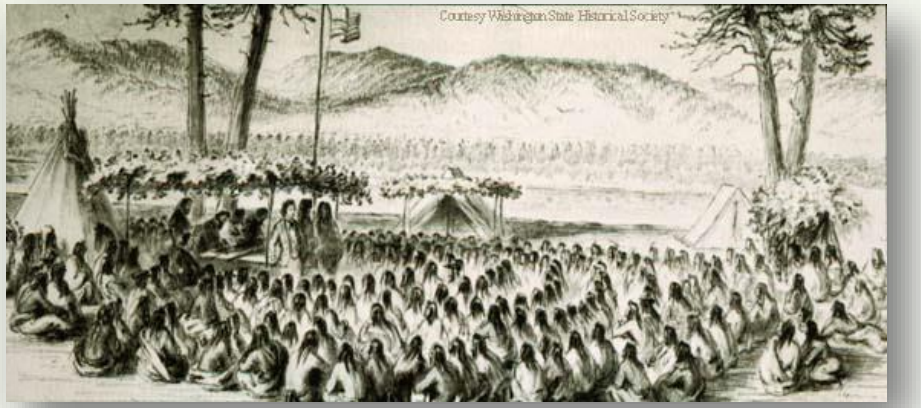
Brief overview of past and on-going projects relating to Natural Pollinators.

These ideas and concepts are being used to develop the YN Pollinator Protection Plan

Outline of YN Presentation

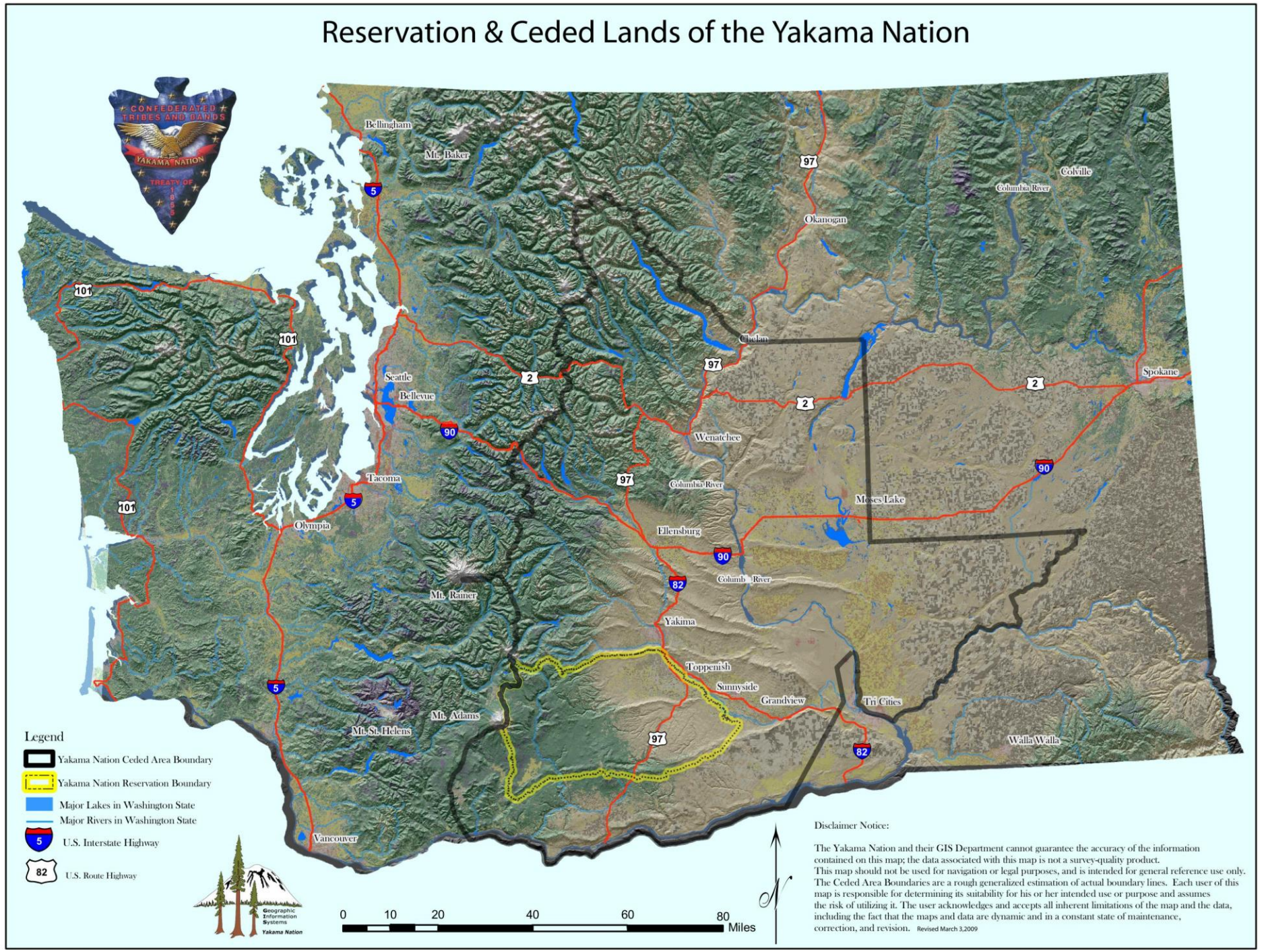
1. Yakama Nation Reservation Map
2. Yakama Nation Staff working on Pollinator Projects
3. Yakama Nation Conservation Innovation Grant (CIG)
4. Yakama Nation Habitat
5. Yakama Nation Honey

The Yakama Treaty of 1855: Article III



- The Reservation, Ceded Lands, and Usual & Accustomed Areas

  Since time immemorial, the health, spirit, and culture of the Yakama have been sustained by the water, salmon, game, roots, and berries of our homeland— our sacred First Foods.


Reservation & Ceded Lands of the Yakama Nation
CONFEDERATED TRIBES AND BANDS
YAKAMA NATION
TREATY OF 1855
Bellingham
Mt. Baker
Seattle
Bellevue
Tacoma
Olympia
Mt. Rainer
Mt. Adams
Mt. St. Helens
Vancouver
Yakima
Toppenish
Sunnyside
Grandview
Tri Cities
Walla Walla
Wenatchee
Chelan
Okanogan
Colville
Columbia River
Moses Lake
Ellensburg
Spokane
Legend
Yakama Nation Ceded Area Boundary
Yakama Nation Reservation Boundary
Major Lakes in Washington State
Major Rivers in Washington State
U.S. Interstate Highway
U.S. Route Highway
Geographic Information Systems Yakama Nation
0 10 20 40 60 80 Miles
Disclaimer Notice:
The Yakama Nation and their GIS Department cannot guarantee the accuracy of the information contained on this map; the data associated with this map is not a survey-quality product. This map should not be used for navigation or legal purposes, and is intended for general reference use only. The Ceded Area Boundaries are a rough generalized estimation of actual boundary lines. Each user of this map is responsible for determining its suitability for his or her intended use or purpose and assumes the risk of utilizing it. The user acknowledges and accepts all inherent limitations of the map and the data, including the fact that the maps and data are dynamic and in a constant state of maintenance, correction, and revision. Revised March 3,2009

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Yakama Nation Natural Pollinator Project

This project will create and maintain 7 bee colonies across the Yakama Reservation to serve as starter populaces to increase natural pollinator populations, and examine the effect of different crop management on natural pollinator decline

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YN DNR
Ag Development

Outline of Project

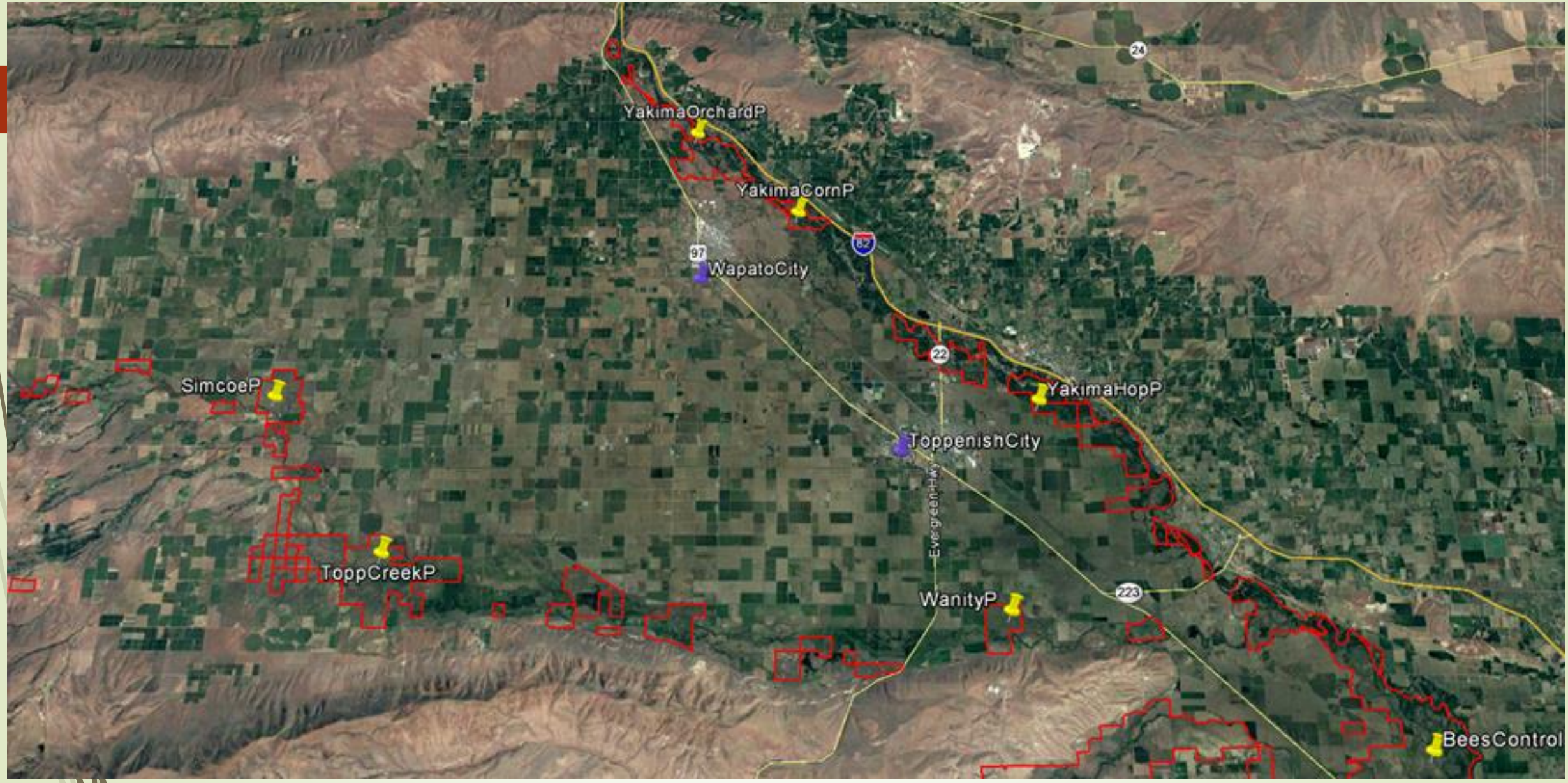
1. Yakama Nation will increase natural pollinator populations.
   - DNR will purchase 7 Langstroth hives to house the pollinators
   - DNR will purchase 7 Queen Bees and associated drones
   - DNR will place hive/bee combos in 7 selected locations

2. Yakama Nation will enhance pollinator habitat within the agricultural landscape.
   - DNR will purchase seed mix totaling 6 acres
   - DNR will prep and plant 1 acre of seed mix around 6 selected locations

3. Yakama Nation will assess, monitor, and maintenance initial natural pollinator hives for 3 years

4. Yakama Nation will examine the effect of crop management on hive sustainability

5. Yakama Nation will outreach to the community and producers to keep them informed, and seek partnerships for the future



shows pollinator locations (yellow), wildlife controlled regions (red), cities (purple) and the Yakima Valley

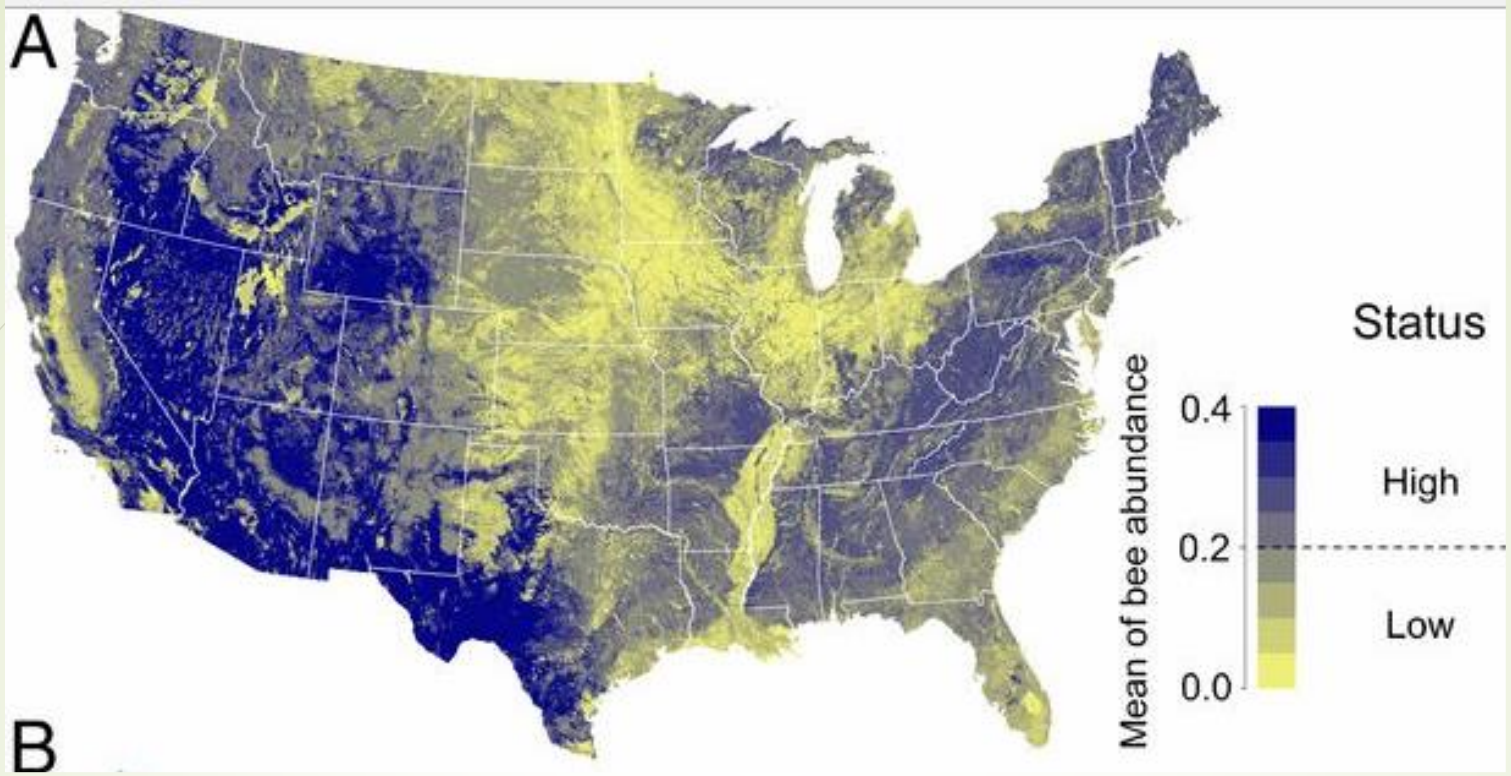


Figure 1 shows the status of wild bee abundance (Koh)

Figure 1 shows areas surrounding the agricultural region in the Yakima Valley very abundant with natural pollinators. This is because of the pristine landscapes that exist due to the preservation and protection the Yakama have upheld. Our culture and traditions rely on the natural foods that fill the surrounding shrubland, as do the natural pollinators. We are incorporating the two together as they rely on each other.

References

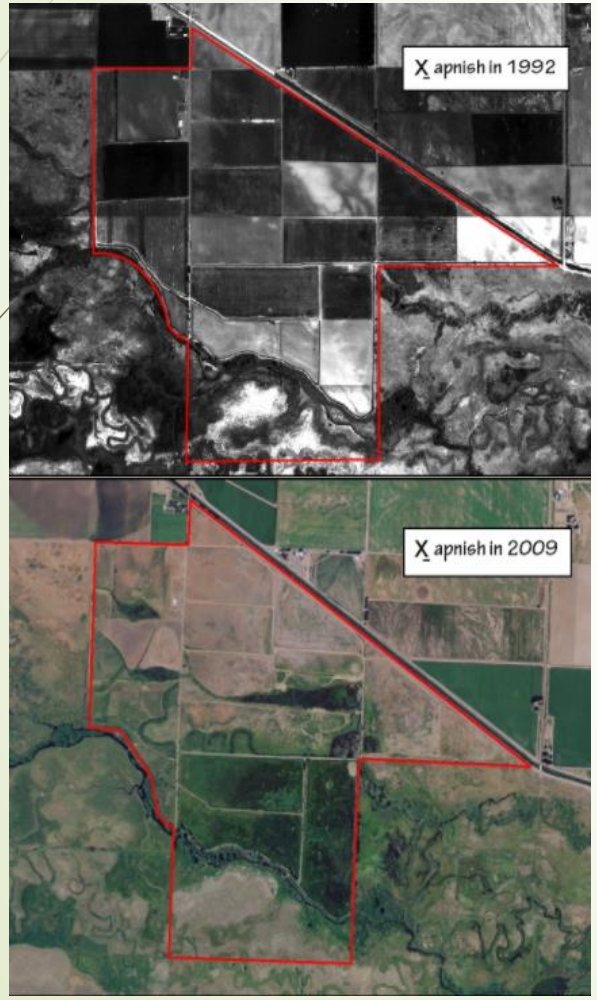
- Kevan, Peter; *Pollinators as bioindicators of the state of the environment: species, activity and diversity*
- Koh, Insu et al; *Modeling the Status, Trends and Impacts of Wild Bee Abundance in the United States*
- NRC, Natural Resource Council; *Status of Pollinators in North America*
- Pollinator Health Task Force; *National Strategy to Promote the Health of Honey Bes and Other Pollinators*
- USDA NRCS; *Pollinator Biology and Habitat*
- Wratten, Stephen D. et al; *Pollinator habitat enhancement: Benefits to other ecosystems services*
- Xerces Society

Yakama Nation Habitat

Satus Creek / Yakima River Scotch Thistle Project

Scotch thistle is a biennial plant that grows predominately in moist sites or drainages of dry locations. We have been treating Scotch thistle for over 10 years and have been successful in those areas that have been treated with herbicides. The plant produces upwards of 40,000 seeds per plant and those seeds can lay dormant yet remain viable in the soil for over 20+ years. If left unchecked, it will produce enormous monocultures and like most invasive plants, will out-compete native flora.

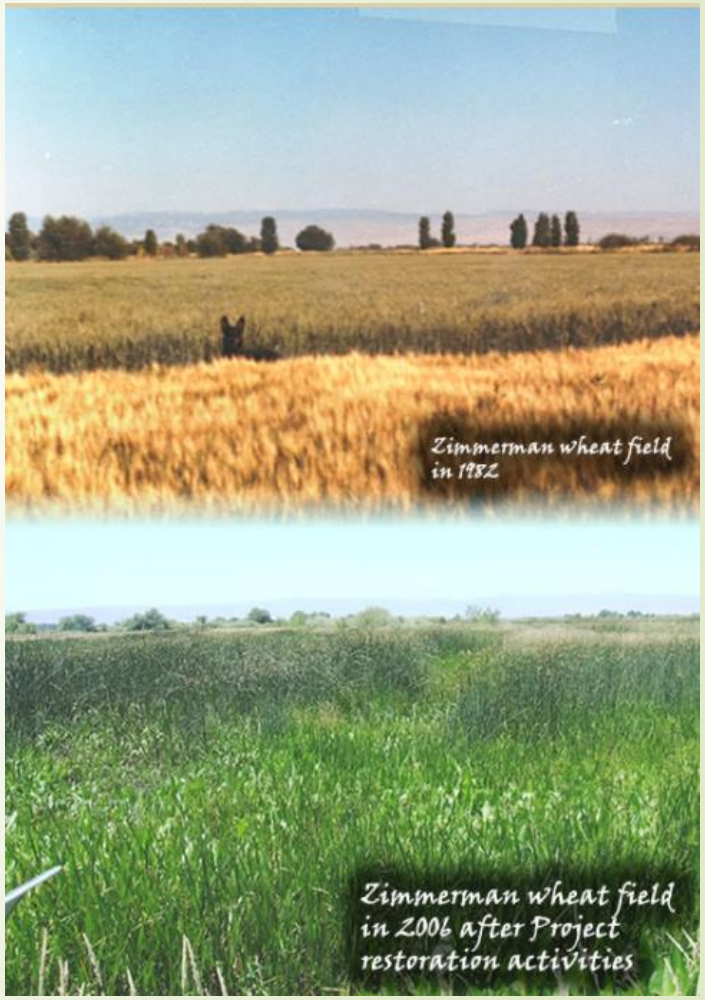
Yakama Nation Habitat

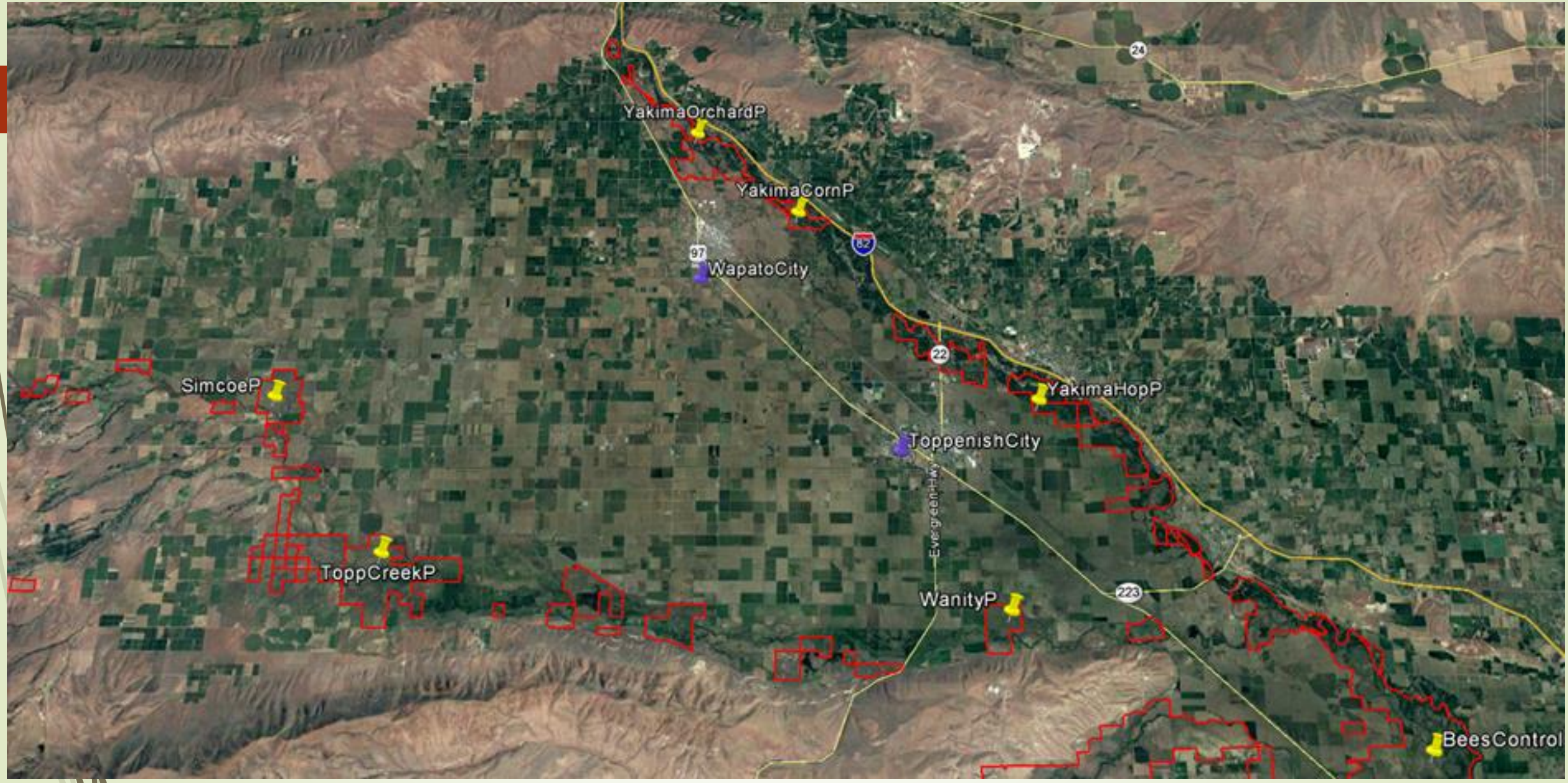


Restoring the environment back to the original state

www.ynwildlife.org

Xapnish Property




YakimaOrchardP
YakimaCornP
WapatoCity
SimcoeP
ToppCreekP
ToppenishCity
YakimaHopP
WanityP
BeesControl
24
97
82
22
223

Yakama Nation Honey

YN is interested in beginning LIGHT honey production (local)

QUESTIONS ??

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