Building Partnerships: Tribes and Invasive Plant Management for Habitat Restoration

Kurt Broz
Natural Resources Specialist
Pala Band of Mission Indians
SAN LUIS REY RIVER
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Gold-spotted Oak Borer

POLYPHAGOUS SHOT HOLE BORER
The Needs

- Baseline surveys
- Maps, maps, maps!
- Habitat Conservation Plan?
- Forest Management Plan?
- Climate Adaptation Plan?
- Community involvement!
- Partnerships, partnerships, partnerships!
- PARTNERSHIPS!
The Partnerships!

- USFWS - HCP, outreach, education, workshops
- NRCS - restoration funds
- BIA - restoration funds
- CNPS - education, ID assistance, Rare Plant Treasure Hunt
- APHIS - MOU for wild pigs
- CA LCC
- Climate Science Alliance - Climate Kids Tribes
- UC CE - ID assistance, Riparian Workshop
- Urban Corps SD - weed removal crew
- Cal Fish and Wildlife
- SD Zoo - education
- Other Tribes
THE PALA ENVIRONMENTAL DEPARTMENT

- Integrated Natural Resources Management Plan (INRMP)
  - Forest Management Plan
  - Habitat Conservation Plan (HCP)
  - Wetland Management Plan
  - Cultural Resources Management Plan
  - Climate Adaptation Plan
- Strategic Work Plan / TEP (Tribal Environmental Plan)
HABITAT CONSERVATION PLAN (HCP)

- USFWS Tribal Wildlife Grants (TWG)
- In the final stretch!

Least Bell’s Vireo Habitat and Sightings
HABITAT CONSERVATION PLAN (HCP)

Where are we?

Habitat types...
<table>
<thead>
<tr>
<th>Year</th>
<th>Objectives / Intermediate Program Development Milestones (includes pursuing needed assistance and resources)</th>
<th>Cl nº</th>
<th>Role (Tribe/EPA)</th>
<th>Area</th>
<th>Category</th>
<th>Repeat (Yes/No)</th>
<th>Source of Objective</th>
<th>Work Plan Component</th>
<th>Status</th>
<th>Outputs / Deliverables</th>
<th>Intermediate Outcome(s)</th>
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</thead>
<tbody>
<tr>
<td>2016</td>
<td>Annually review and update the ETEP Climate Change Component, obtaining input from relevant departments, leaders, and other stakeholders</td>
<td>A.1, A.3, A.5, 1, 2</td>
<td>Tribe &amp; EPA Climate</td>
<td>Planning</td>
<td>Yes</td>
<td>FY15-16 CAA 10 Adaptation Planning; Tribal Climate change vulnerability / risk assessment report</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<td>2016</td>
<td>Conduct a climate change vulnerability and risk assessments and prepare a report</td>
<td>C.3.14</td>
<td>Tribe Climate</td>
<td>Planning</td>
<td>Yes</td>
<td>FY15-16 CAA 10 Adaptation Planning; Tribal Climate change vulnerability / risk assessment report</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<tr>
<td>2016</td>
<td>Obtain staff training to build skills and capacities relating to the climate change program area objectives (see combined annual training plan)</td>
<td>B.2.2, B.2.3, C</td>
<td>Tribe Climate</td>
<td>Training</td>
<td>New staff skills: Training details</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<tr>
<td>2016</td>
<td>Develop climate change adaptation page on PED website and incorporate into social media platforms</td>
<td>B.6.2, B.6.7</td>
<td>Tribe Climate</td>
<td>Education</td>
<td>FY15-16 CAA 10 Training, E&amp;O</td>
<td>Funded</td>
<td>Updated website</td>
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<td>2016</td>
<td>Develop, test, evaluate, and deliver E&amp;O literature, materials, and activities on climate change issues and opportunities relating to annual objectives (see combined annual E&amp;O plan)</td>
<td>B.6.2, B.6.3</td>
<td>Tribe Climate</td>
<td>Education</td>
<td>FY15-16 CAA 10 Training, E&amp;O</td>
<td>Funded</td>
<td>Climate Change E&amp;O activities and materials</td>
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<td>2016</td>
<td>Identify, pursue, and secure funding for 2017 ETEP Climate Change Priority Program objectives (see combined annual funding plan)</td>
<td>B.8.3, C.3.5</td>
<td>Tribe Climate</td>
<td>Funding</td>
<td>Funding for Climate Change objectives</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<td>2016</td>
<td>Prepare and submit progress reports, financial reports, and grant drawdown requests for efforts and activities under the climate change program area</td>
<td>B.2.4, B.3.6</td>
<td>Tribe Climate</td>
<td>Reporting</td>
<td>Reports and drawdown requests to agency/tribe</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<td>2016</td>
<td>Participate in local/state/federal forums to obtain information and pursue partnerships on climate change issues and opportunities that relate to annual objectives</td>
<td>B.6.8, C.3.20</td>
<td>Tribe Climate</td>
<td>Collaborating</td>
<td>FY16-17 GAP W Training/Educational Funded</td>
<td>Details on meetings and new partnerships</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<td>2017</td>
<td>Annually review and update the ETEP Climate Change Component, obtaining input from relevant departments, leaders, and other stakeholders</td>
<td>A.1, A.3, B.5, 1</td>
<td>Tribe &amp; EPA Climate</td>
<td>Planning</td>
<td>Yes</td>
<td>CC adaptation plan</td>
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<td>B.6.2, B.6.3</td>
<td>Tribe Climate</td>
<td>Education</td>
<td>CC education &amp; outreach activities/materials</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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<td>2017</td>
<td>Identify, pursue, and secure funding for 2018 ETEP Climate Change Priority Program objectives (see combined annual funding plan)</td>
<td>B.8.3, C.3.5</td>
<td>Tribe Climate</td>
<td>Funding</td>
<td>Funding for Climate Change objectives</td>
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<td>2018</td>
<td>Begin a climate change adaptation/preparedness program and pilot implementation of the adaptation/preparedness program and plan</td>
<td>C.3.15</td>
<td>Tribe Climate</td>
<td>Implementing</td>
<td>Climate Change Adaptation Program Pilot Implementation</td>
<td>Updated Perpetual 4-Year ETEP Component</td>
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TRIBES AS GOVERNMENTS

- Technically, a Tribal Reservation is a state-within-a-state
- California has 20+... in San Diego Co.
- Function as sovereign nations, but...
  - Rely on Federal funding
  - Rely on County and State assistance
  - Some Tribes lack basics
TRIBES AS CULTURES

- Years of being screwed over
- Some wealthy, most poor
- Approach as a friend
- “What do you need? How can we help with that?”
- BRING FOOD!
THE ENEMIES
The San Luis Rey River and 76 Highway

- Heavily altered by people
- Rural yet near to major metropolitan areas
- Altered landscape and water movement
- Corridor for movement
  - Weeds
  - Animals
  - People
FUTURE NEEDS

- Better communication between land owners
- More partnerships! - Decreasing funds?
- Be a jack-of-all-trades!
- Maps, maps, maps
  - Plant distribution changes?
  - Projected climates locally
  - Refugia for wildlife
  - Refugia for weeds
- Manage for a future climate?
- Traditional Ecological Knowledge (TEK)
FUTURE PROJECTS

- INCREASED OUTREACH AND COMMUNICATION
  - Do we need a meeting focused on this?
- Community gardens and better landscapes
- MORE RESTORATION
- Consider alternatives for wildlife under climate variabilities
- “Eat the weeds”? Use the weeds?
- TEK
KURT BROZ

kbroz@palatribe.com

(760) 891 - 3550

www.facebook.com/PalaEnvironmentalDepartment

ped.palatribe.com