

Students and Teachers Restoring A Watershed

Since 1992:

•Over 40,000 Students •Over 500 Restorations •45,000 Native Plants •Over 40 Miles of Riparian Habitat •7 acres of marsh/upland ecotone





Gonzales Ranch





🎔 Point Blue

Point Blue

Anticipated future climate conditions	Climate-considered restoration activities
 Cal-Adapt Average temperature overall Incr by 3.4 to 5.8 degrees F Average extreme heat days Incr from 4 (1961-1990) to 18.82 Annual precipitation Variable; less Wildfire risk Decreases slightly SLR and snow pack 	 Modified planting design with tool Design redundancies Diversity of plants Timing considerations for flowering/seeding Shift in species range Considered salinity Local seed sourcing and working with local nurseries Human communities
Point Blue	Point Blue

Identify key vulnerabilities considered

- · Lack of habitat for wildlife
- Riparian systems overall decline
- Species of special concern (Least Bell's and CTS)
- · Developing relationships with ranchers and community
- Challenges to vegetation establishment

Application of climate-smart tool

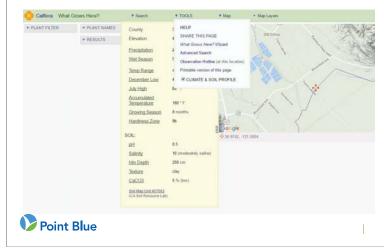
	Plant Selection I. Instructions: Effert a "" or "N" in the "include" column to indicate your plant jelections. 2. Enter salt salinity value for pract location in the green lost. This value can be found by: - Got to wire. Callfars. any - in lethhand column, click What Green Here? - Use may to short precist the. Clin OCX, there sheek the box CLIMATE & JOL PROFILE Use mays to class precist. Biol. Clin OCX, then sheek the box CLIMATE & JOL PROFILE Use mays to short precist. Biol. Clin OCX, then sheek the box CLIMATE & JOL PROFILE Other mays to class precist. Biol. Clin OCX, then sheek the box CLIMATE & JOL PROFILE Other mays to clin other precist. Biol. Clin OCX, then sheek the box CLIMATE & JOL PROFILE Other mays to clin other sheek the box CLIMATE & JOL PROFILE Other mays to clin other sheek the box CLIMATE & JOL PROFILE Other mays to clin other sheek the box CLIMATE & JOL PROFILE Other mays to clin other sheek the box CLIMATE & JOL PROFILE Other mays to clin. Clin other sheek the box CLIMATE & JOL PROFILE Other mays to clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin other sheek the box CLIMATE & JOL PROFILE Other mays the clin ot					for project location, value for project location, value between 0 and 50 (including decimals if applicable)			
Trees (10 selected)				Shrubs (9 selected)			Grasses & Forbs (4 selected)		
ndude?	Common Name	Scientific Name	include?	Common Name	Scientific Name	Include?	Convision Name	Scientific Name	
y	boxelder	Acer negundo		common manzanita	Arctastophylus manzanite		horsemint.	Apastache urticifalia	
	California buckeye	Aesculus colfornico		Bearberry	Arctostaphylus uvo-ursi	¥	mugwort	Artemisia daugilasiana	
	white alder	Alnus mombifolia		Marin manzanita	Arctostophylus virgeta		narrow leaved milkweed	Asclepias fascicularia	
	red alder (coastal)	Alnus rubrifolia		CA Segebrush	Artemisia californica		showy milkweed	Asclepias speciosa	
	madrone	Arbutus menziesii		Salt Marsh Baccharis	Bacchariz douglasii		Pacific aster	Aster chilensis	
Y	Oregon ash	Praxinus latifolia	¥	coyote brush	Baccharis pilularis		sedge	Carex spp	
	coast silk tassle	Ganya elliptica		CAberberry	Berberis pinnota		red ribbons	Clarkia concinna sta	

Point Blue

Gonzales Ranch goals and metrics

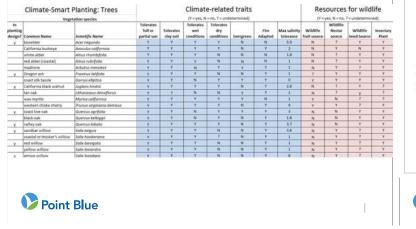
- Revegetation
- Community involvement and education
- Birds
- Connectivity
- Thermal refugia
- Soil conditions and carbon sequestration

CalFlora site salinity data

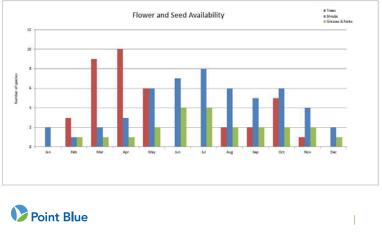


Point Blue

Application of climate-smart tool



Application of climate-smart tool



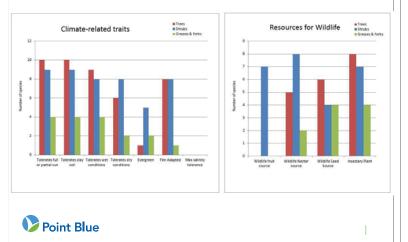
Application of climate-smart tool Climate-Smart Planting: Trees **Resource** phenology Point Blue 💙 Point Blue

Community Engagement

- Outreach
- 5 schools
- 4-H and biology clubs







Challenges and what we learned

- · Difficult to locate every plant species
- · No able to confirm seed provenance for some species
- · Plant mortality higher than expected for various reasons

Outcomes and successes based on climate-smart process

- CA LCC climate adaptation grant funded continued outreach, education, and training around this project
- Education reached underserved schools and resulted in students feeling part of a hopeful solution to climate change
- TNC partnership and expertise
- Demonstration of multi-use
- A model we can share
- Ignited motivation to expand STRAW's reach

Point Blue



Thanks! Questions?

