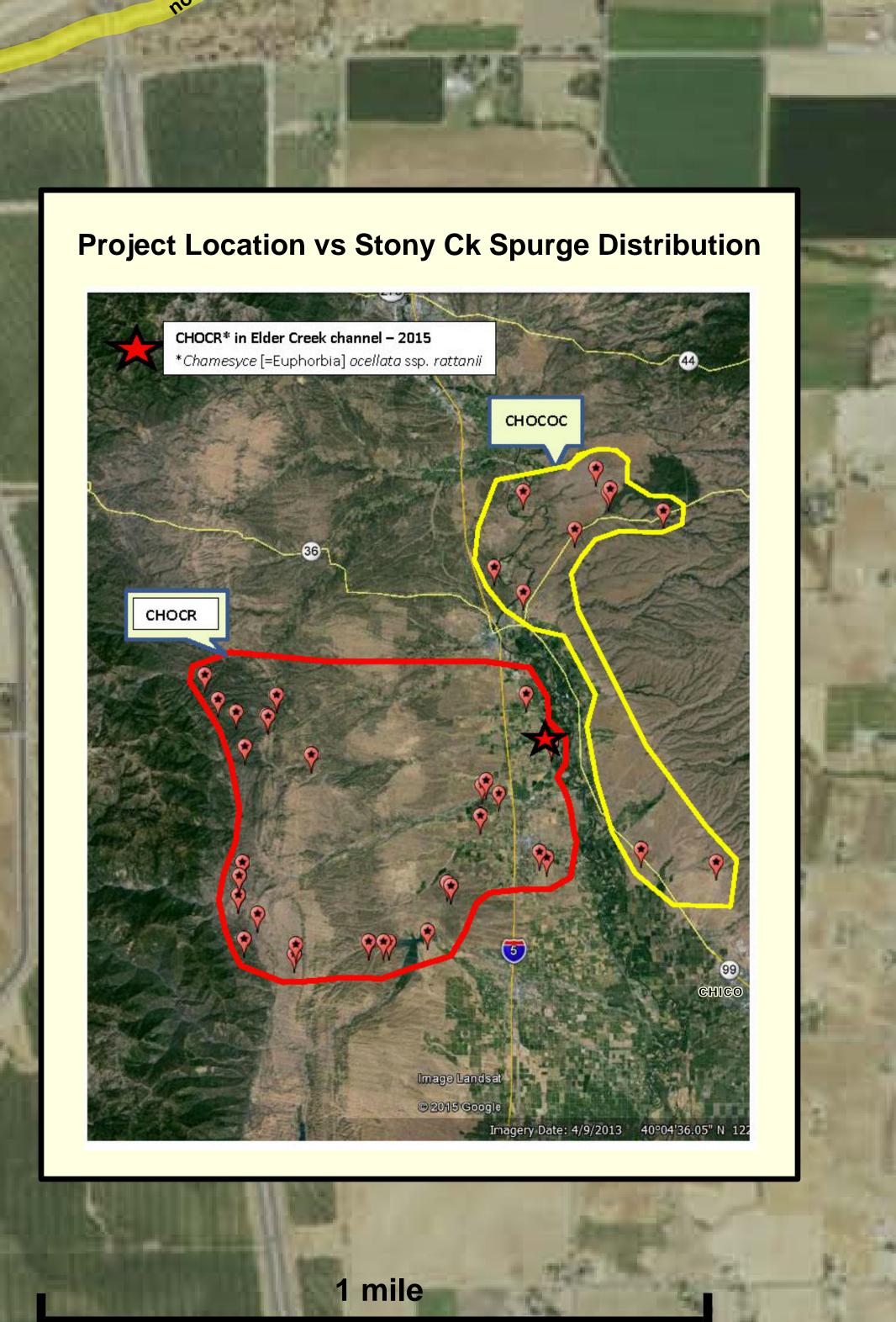
## DWR Botanists find Euphorbia ocellata ssp. rattanii (Stony Creek spurge, CRPR 1B.2) in Elder Creek, Tehama County

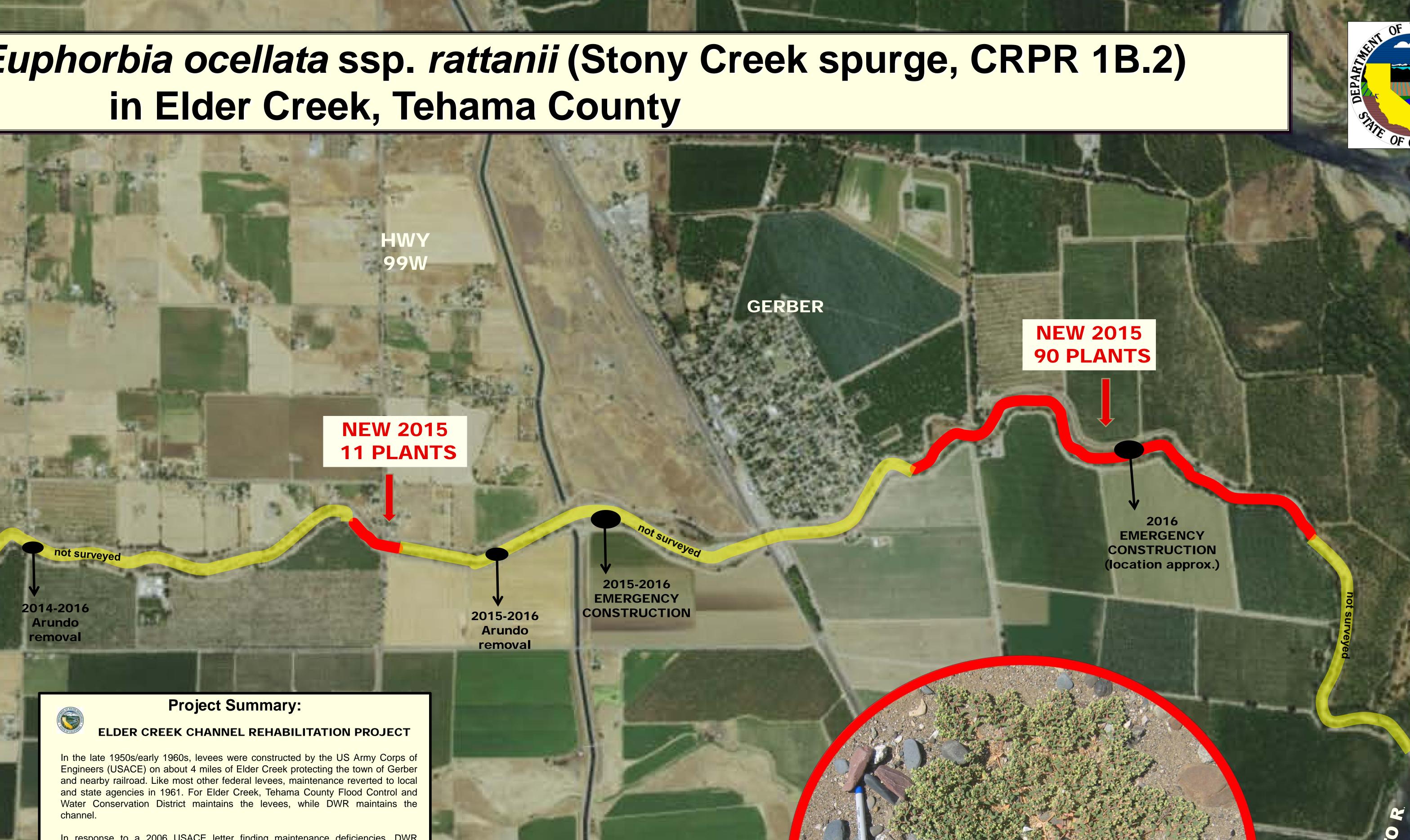


CNDD

**OCC #34** 

2007

Challenge: Protection of this rare plant and VELB/elderberries in Elder Creek channel requires unprecedented coordination among DWR, DFW and Tehama County --- AND between engineers and biologists within DWR





In response to a 2006 USACE letter finding maintenance deficiencies, DWR proposes to remove accumulated sediments and vegetation which have reduced the channel's flood-carrying capacity below required levels.

Construction for the proposed "Elder Creek Channel Rehabilitation Project" will begin in spring of 2016. Phased over 5 years, this project will involve

- excavation of 100,000cubic yards of sediment,
- removing or limbing 4 acres of shrubby or herbaceous riparian vegetation,
- limbing or removal/relocation of 1.8 acres of elderberry shrubs,
- trimming/limbing 1.4 acres of mature riparian vegetation (trees, shrubs, vines), • trimming/limbing 0.75 acres of elderberry shrubs (12 shrubs or clusters), and
- removing all Arundo donax.

Arundo donax, elderberries, and riparian vegetation grow intermixed along the channel edges. The channel itself is almost completely an open gravel bed with flat to undulating partially armored gravel and sand bars.

## **Rare Plant Impacts: Avoidance, Minimization and Mitigation**

The rare plant Euphorbia [=Chamaesyce] ocellata ssp. rattanii (EUOCR) grows on the partially compacted ('armored') gravel bars, mostly not within the areas designated for sediment excavation. Known occupied habitat for EUOCR will be protected with orange ESA fencing to prevent damage by heavy equipment. Each year's work area will be surveyed for EUOCR during the previous year to determine areas to protect. Individual plants with high probability of impact will be removed and relocated to adjacent safe spots so they can reseed into non-impacted habitat. The overall, long-term effect of reworking the channel bed on the gravel substrate for this plant is unknown. Post-construction monitoring will document extent of reseeding and maintenance of the population over time.





RARE Euphorbia ocellata ssp. rattanii



COMMON Euphorbia ocellata ssp. ocellata

