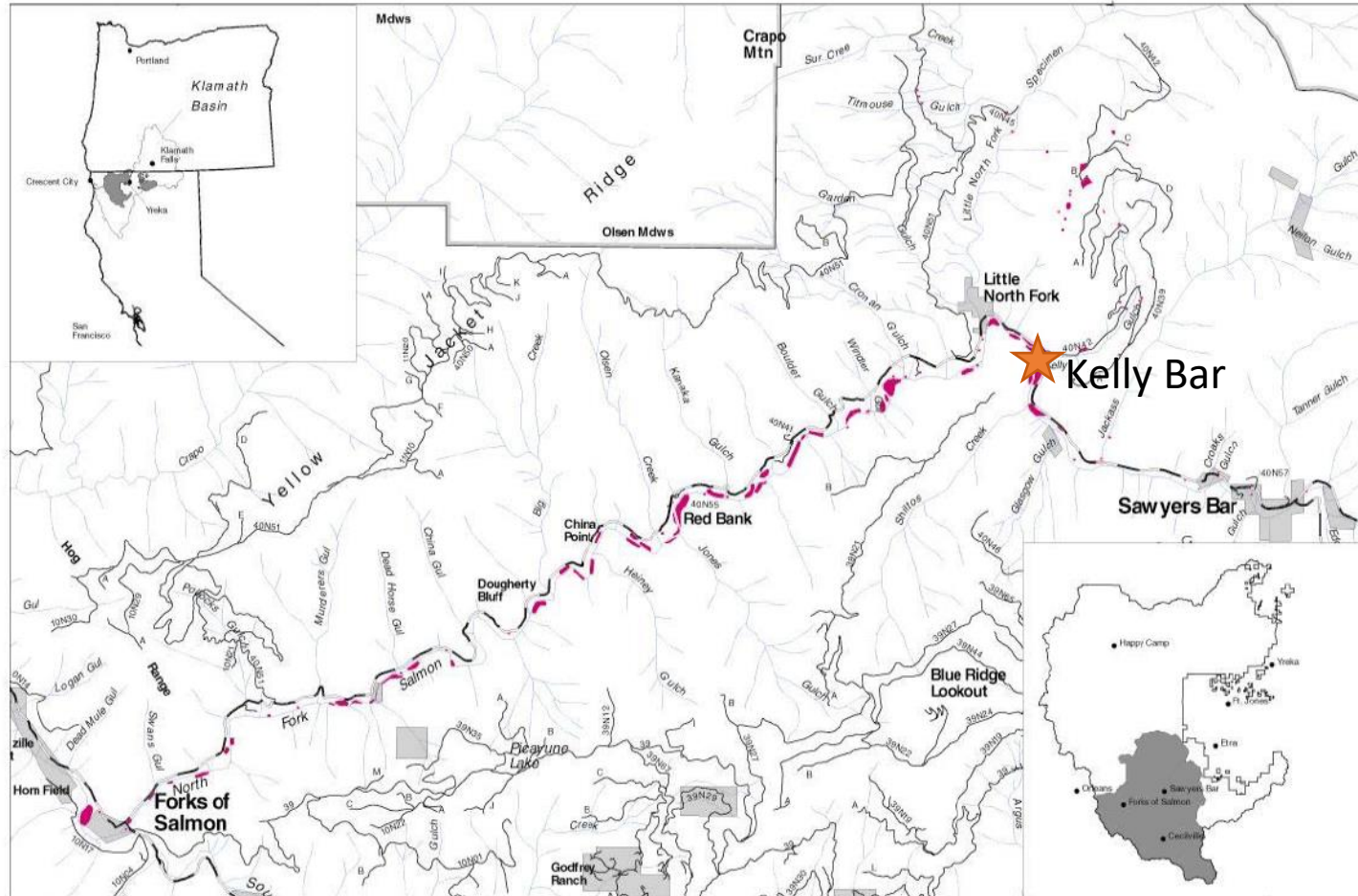


Floodplains restoration post-infestation on the North Fork Salmon River

Deja Malone-Persha
Plants Program Coordinator

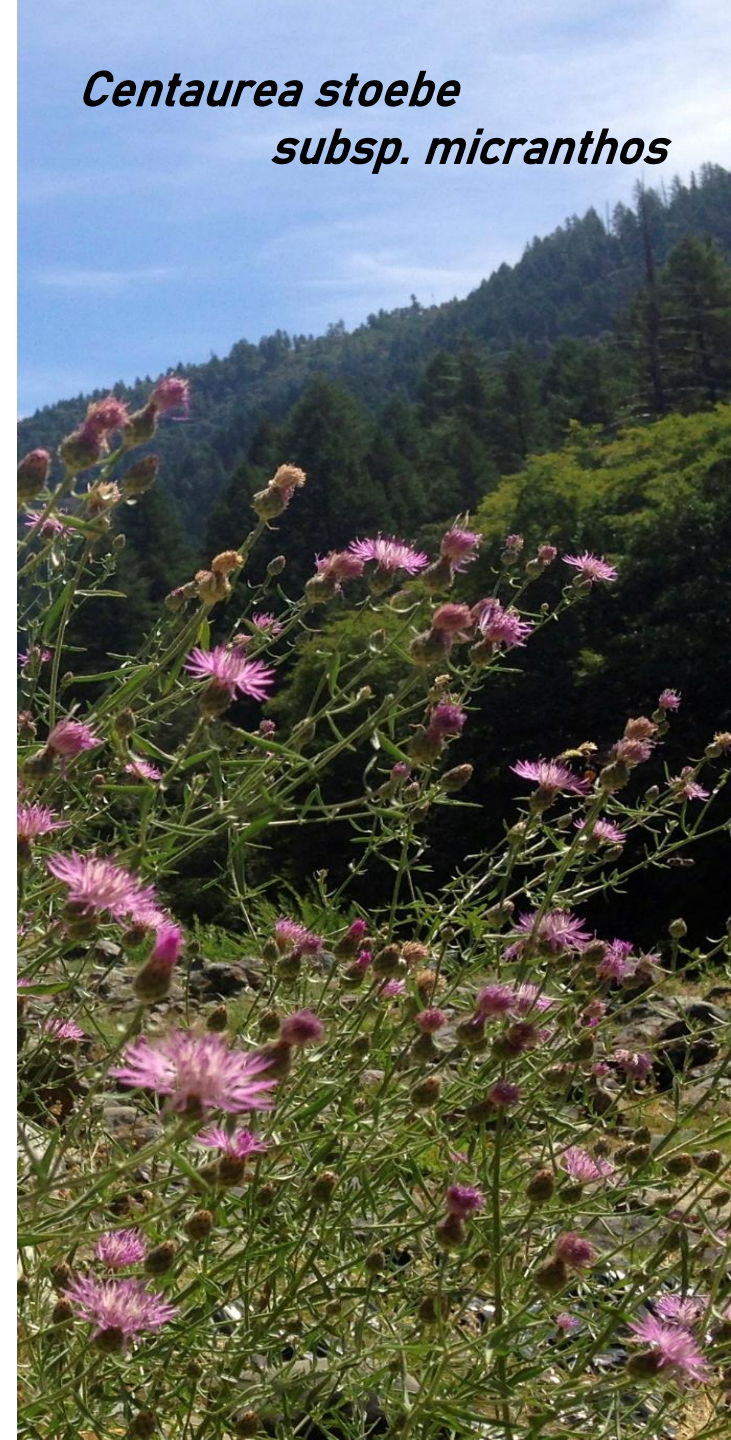


Spotted knapweed at Kelly Bar



Map from 2001 - Four years after initial detection

Centaurea stoebe
subsp. micranthos



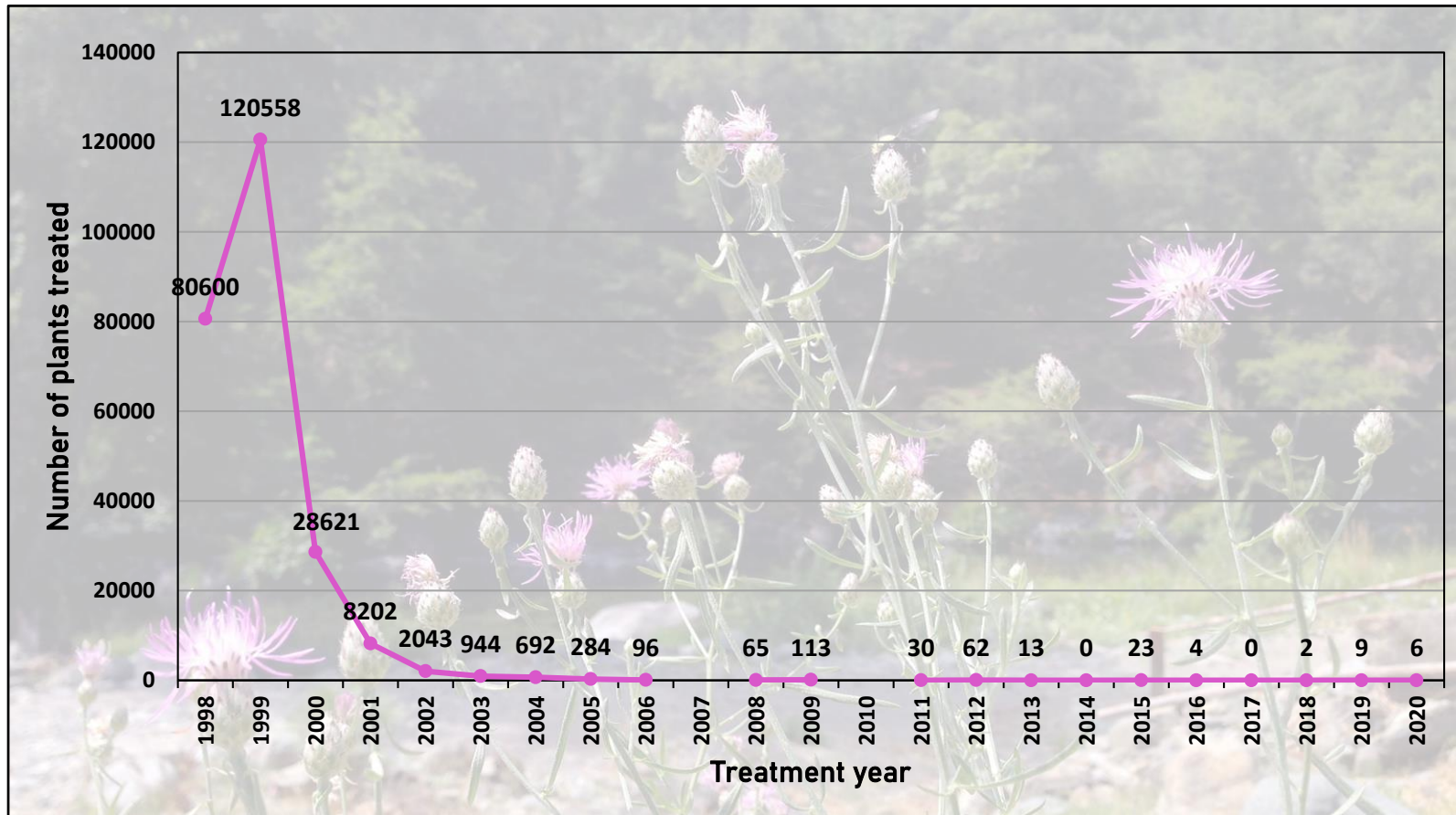
Adaptive Management

- Non-chemical treatments prioritized
- Methods used at Kelly Bar included digging, hand-pulling, mulching, burning, and revegetation
- Volunteers played a vital role



Kelly Bar spotted knapweed treatment results

Multiple-pass surveys with manual treatments



Before



During



After

Taking restoration to the next level

- Enhance thermal refugia
- Reconnect the floodplain
- Revegetate alluvial bars
- Provide rearing habitat for juvenile coho, spring Chinook and other salmonids



Planning with a historic infestation in mind



an emergent
cow-pie

Kelly Bar Habitat Enhancement Project

Implementation Summer/Fall 2019

Before



After









Post-implementation findings & looking ahead

- Successful revegetation
- **Spotted knapweed** – only 6 plants found in 2020!
- Broadcast native plant seeds collected by SRRC this fall
- Use revegetation techniques in future restoration efforts



Thank you to all of those involved over the years



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California Department of
Fish and Wildlife
National Oceanic and
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Community Volunteers
Karuk Tribe
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& the numerous funders who
have supported our spotted
knapweed treatments for over
two decades