



Noxious weed early detection and rapid response:
California's been there...

and is doing just that.



“Generic” Weed Action Plan



Leadership & Coordination



Prevention & Exclusion



Early Detection & Rapid Response



Eradication & Management



Inventory, Monitoring, Evaluation



Restoration



Research



Education & Public Awareness

California’s Action Oriented Pest Prevention Plan



Exclusion



Detection



Eradication



Management



Public Education



(Gypsy Moth)



(Glassy-Winged Sharpshooter)



(Sudden Oak Death)



(Mediterranean Fruit Fly)



FAC 5004. "*Noxious weed*" means any species of plant that is, or is liable to be, troublesome, aggressive, intrusive, detrimental, or destructive to agriculture, silviculture, or important native species, and difficult to control or eradicate, which the director, by regulation, designates to be a noxious weed. In determining whether or not a species shall be designated a noxious weed for the purposes of protecting silviculture or important native plant species, the director shall not make that designation if the designation will be detrimental to agriculture.

Current Policy

A

- known economic importance subject to state enforced action

B

- known economic importance subject to county enforced action at discretion of the CAC, or, state endorsed action when found in a nursery

C

- no state enforced action outside of nurseries except to retard spread; at the discretion of the CAC; or, state enforced action for pest cleanliness in nurseries

D

- no action

Q

- organism or disorder requiring temporary "A" action pending determination of a permanent rating, suspected of economic importance but status uncertain. If established, discretionary survey and division study team convened

Squarrose Knapweed

(*Centaurea squarrosa*)



Diffuse Knapweed

(*Centaurea diffusa*)



Spotted Knapweed

(*Centaurea maculosa*)



Musk Thistle

(*Carduus nutans*)



Scotch Thistle

(*Onopordum acanthium*)



Skeletonweed

(*Chondrilla juncea*)



Skeletonweed

(*Chondrilla juncea*)



Skeletonweed

(*Chondrilla juncea*)



South American Spongeplant

(*Limnobium laevigata*)



South American Spongeplant

(*Limnobium laevigata*)



Perennial Pepperweed

(*Lepidium latifolium*)



Purple Loosestrife

(*Lythrum salicaria*)



Scotch Broom

(*Cytisus scoparius*)



Rattlebox

(*Sesbania punicea*)



Rattlebox

(*Sesbania punicea*)



Rattlebox

(*Sesbania punicea*)



California Department of Food & Agriculture

Integrated Pest Control Branch - Noxious Weed Information Project



They've been around a while...

(Scotch Thistle)



They've been around a while...

(Tamarisk)



They've been around a while...

(Scotch Thistle)



A

They've been around a while...

(Scotch Thistle)



Hey, what's the worst that can happen?

(Musk Thistle)

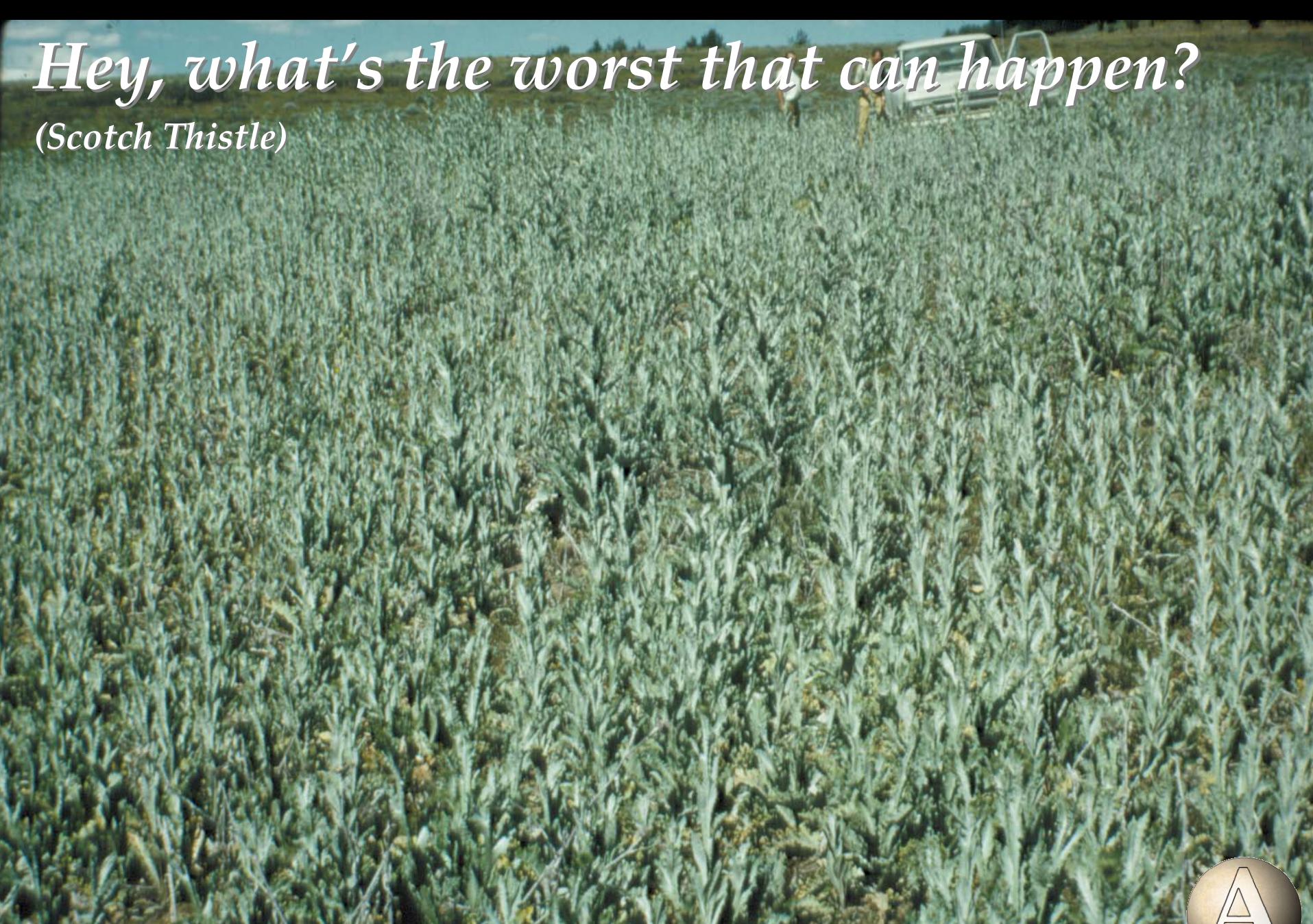


Hey, what's the worst that can happen?
(Musk Thistle)



Hey, what's the worst that can happen?

(Scotch Thistle)



Hey, what's the worst that can happen?

(Scotch Thistle)



A

Hey, what's the worst that can happen?

(Marlahan Mustard)



Hey, what's the worst that can happen?
(Squarrose Knapweed)



Hey, what's the worst that can happen?

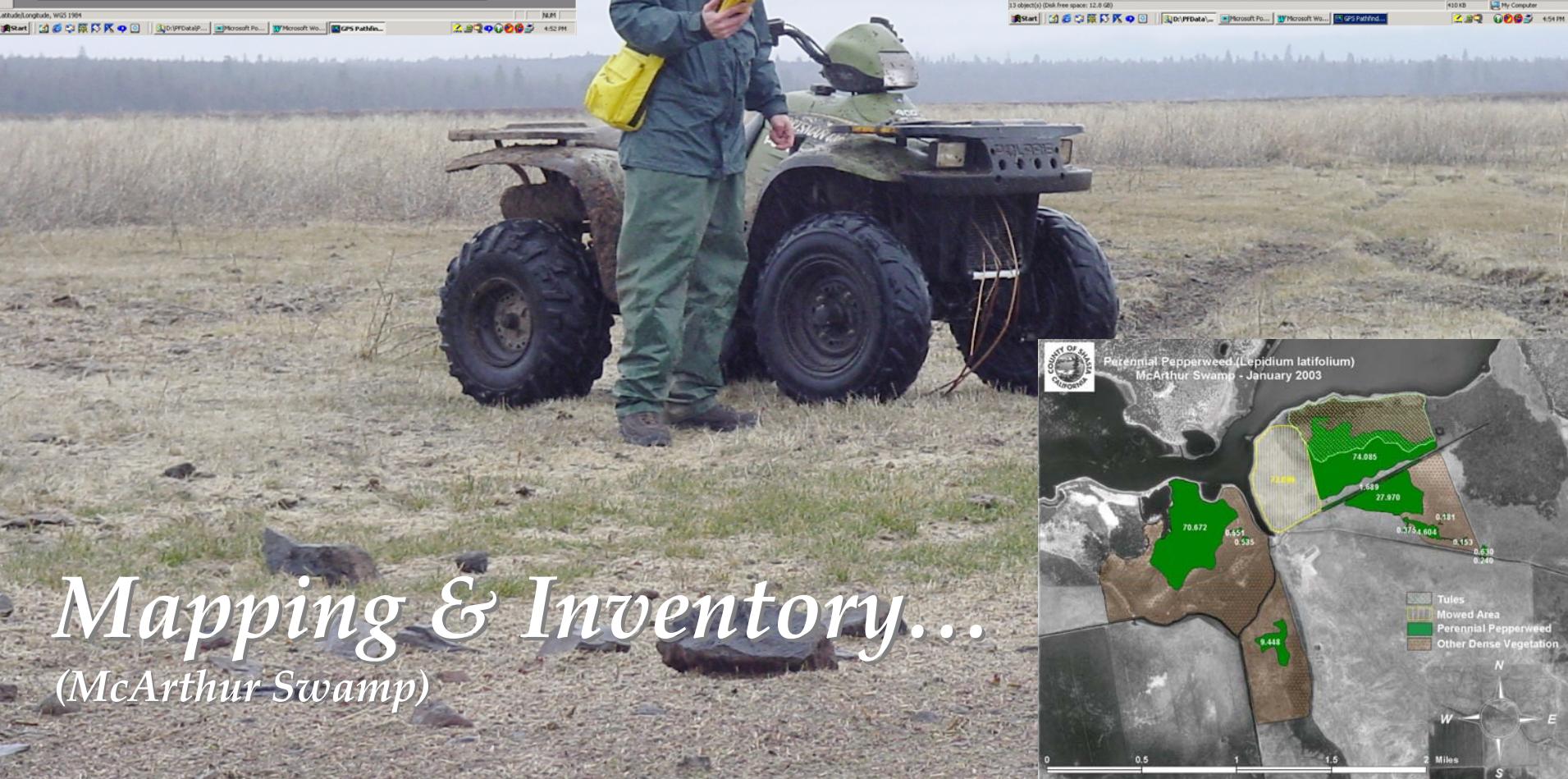
(Scotch Thistle)



Mapping & Inventory...

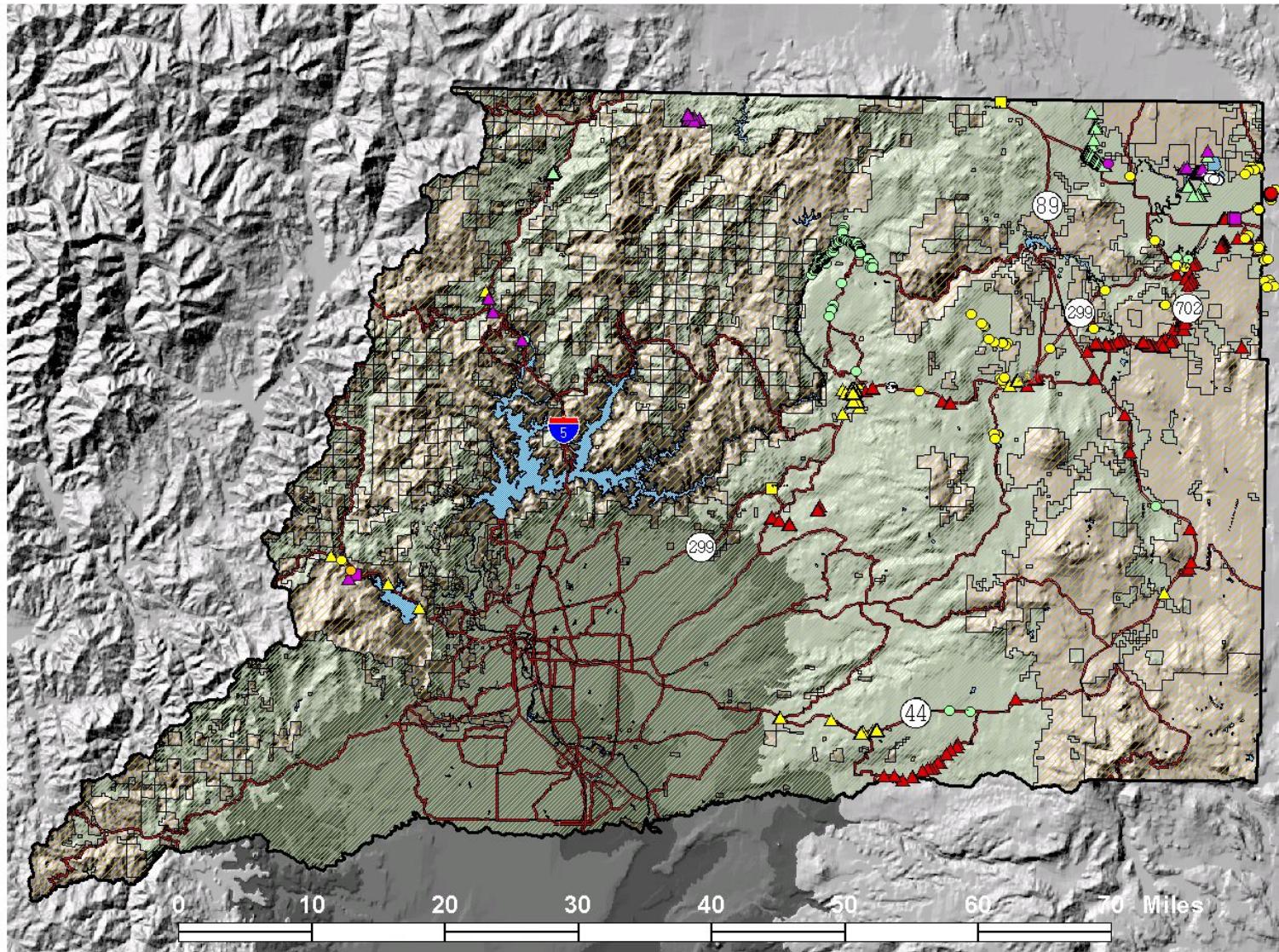
(Cassel-Fall River Rd.)







Noxious Weed Distributions

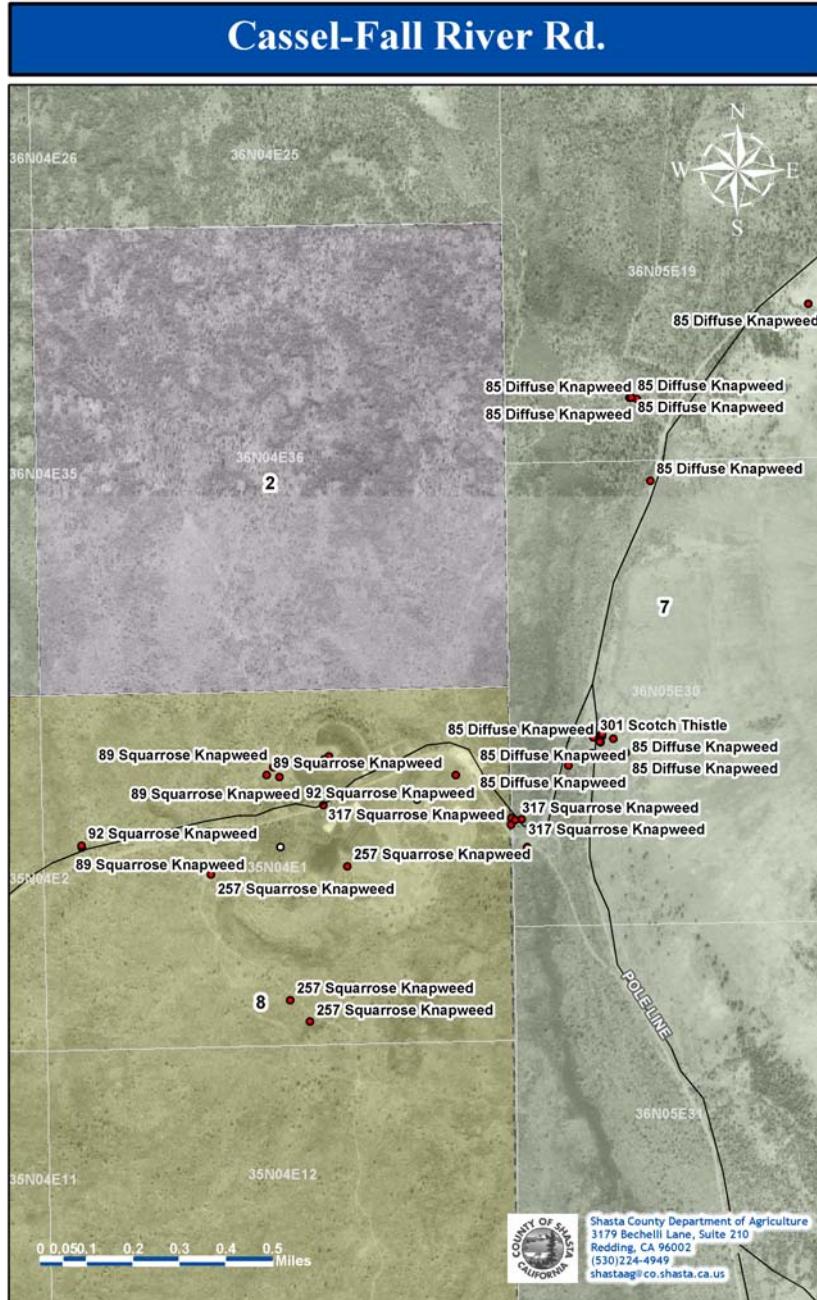


■ Private
■ Government

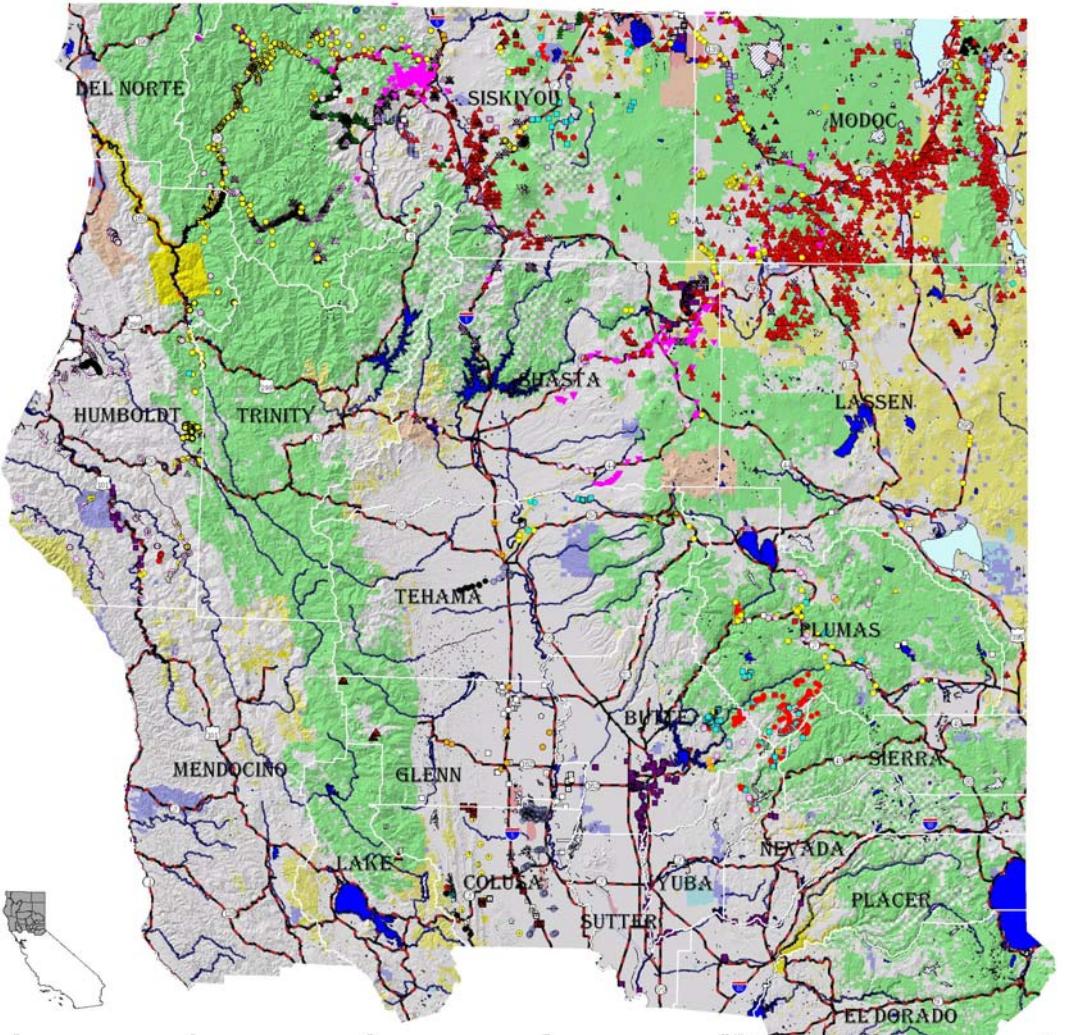
- TREE OF HEAVEN *Allianthus altissima*
- CANADA THISTLE *Cirsium arvense*
- DIFFUSE KNAPEWEED *Centaurea diffusa*
- DALMATIAN TOADFLAX *Linaria genistifolia* ssp. *dalmatica*
- DYER'S WOAD *Isatis tinctoria*
- MEDITERRANEAN SAGE *Salvia aethiopis*
- MUSK THISTLE *Carduus nutans*
- PERENNIAL PEPPERWEED *Lepidium latifolium*
- SCOTCH BROOM *Cytisus scoparius*
- SCOTCH THISTLE *Onopordum acanthium*
- SPOTTED KNAPEWEED *Centaurea maculosa*
- SQUARROSE KNAPEWEED *Centaurea squarrosa*
- YELLOWSPIKE THISTLE *Cirsium ochrocentrum*

Mapping & Inventory :: *(Cassel-Fall River Rd.)*

*Licorice...
(Cassel-Fall River Rd.)*



Surveyed Noxious Weed Locations of Northern California



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40

80

120

Miles

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SCALE 1:1,000,000



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Digging...

(Perennial Pepperweed – 299 Split)



Digging...

(Perennial Pepperweed – 299 Split)



Digging...

(Musk Thistle - Dana)



Digging...

(Spotted Knapweed – I-5N)



Digging...

(Marlahan Mustard – I-5N)



Mowing...

(Perennial Pepperweed - McArthur Swamp)



Cutting...

(Scotch Broom - 299E)



Cutting...

(French Broom - Hwy 151)



FEB 22 2005

Burning...

(Scotch Broom - Hwy 151)



FEB 22 2005

Burning...

(Scotch Broom – Hwy151)



FEB 22 2005

Cutting...

(*Sesbania* - Churn Creek)



Cutting...

(Sesbania - Churn Creek)



Pulling...

(Rattlebox - Hwy 273)



Pulling...

(Scotch Broom - Lakehead)



Pulling...

(Scotch Broom - Lakehead)



Pulling...

(Scotch Broom - Lakehead)



Cutting...

(Scotch Broom - 299E)



Cutting...

(Scotch Broom - 299E)



Spraying...

(Scotch Broom - 299E)



Spraying...

(Scotch Broom - 299E)



Spraying...

(Scotch Broom - 299E)



Spraying...

(Yellow Starthistle)



Spraying...

(Squarrose Knapweed – Cassel-Fall River Rd.)





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Thistle Life Stages...*









Biological Control...

(Hylobius on Purple Loosestrife – McArthur Rd.)



Biological Control...

(Galerucella on Purple Loosetrife – Ahjumawi State Park)



Black-Margined Loosetrife Beetle
(Galerucella calmariensis)

Biological Control...

(Purple Loosetrife Leaf Beetles – McArthur)



Biological Control...

(Galerucella larval damage on Purple Loosestrife – Ahjumawi State Park)



Biological Control...

(Purple Loosetrife Leaf Beetle Larval Feeding Damage – Ahjumawi State Park)



Biological Control...

(Yellow Starthistle Rust Fungus)



Biological Control...

(Yellow Starthistle Rust Fungus)



Biological Control...

(Yellow Starthistle Rust Fungus)



Biological Control...

(Yellow Starthistle Hairy Weevil - Redding)



Biological Control...

(Yellow Starthistle Hairy Weevil - Redding)



Biological Control...

(Puncturevine Weevils - Redding)



Biological Control...

(Squarrose Knapweed Flower Weevil - McArthur area)



Biological Control...

(Squarrose Knapweed Root-Borer Larva - McArthur area)



