

Status of Douglas-fir Tussock Moth in California



Photo courtesy of J.Dewey, USDA Forest Service.



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USDA Forest Service

South Sierra Service Area

Looking back. . .

- ❑ 1997-1999 Sequoia National Monument/Kings Canyon National Park: >40,000 acres affected
- ❑ 3,000 acres with 50-100% mortality
- ❑ 2003 EWS traps start detecting increase in CA
 - ❑ 35% of traps with > 25 moths
- ❑ 2004 still increasing in CA, Sierras
 - ❑ 45% of traps with > 25 moths



2005 Larval surveys

■ Sierra NF

■ Highest count: 121 larvae ave/1000² inches foliage

■ Yosemite NP

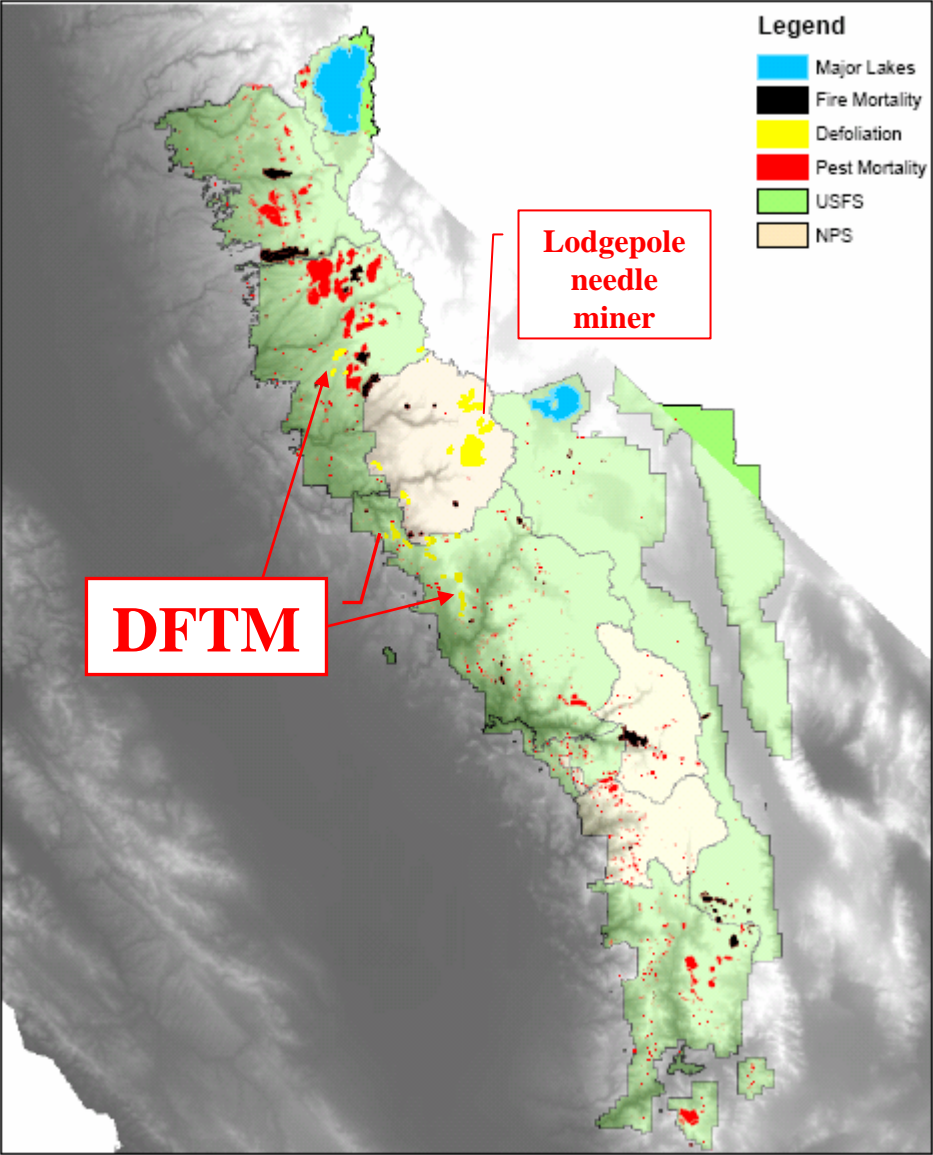
■ Second highest count: 33 larvae ave/1000² inches foliage

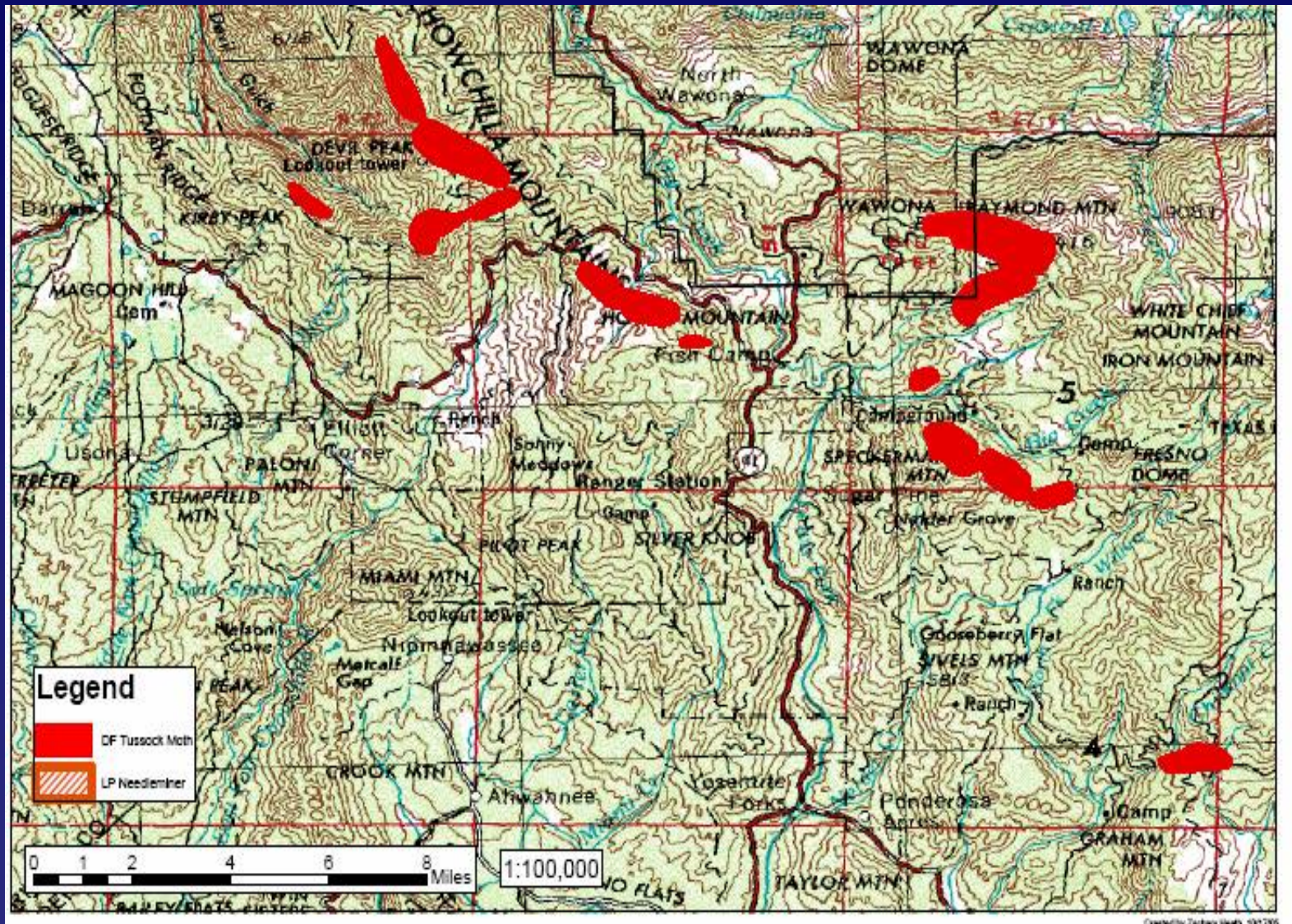
■ 27 locations (out of 77 sites) currently at sub-outbreak levels

2005 Aerial Detection

- ❑ Yosemite National Park: *2093 acres*
- ❑ Sierra National Forest: *8369 acres*
- ❑ Stanislaus National Forest: *2249 acres*
- ❑ *Total: 12,711 acres*

2005 Aerial Survey Southern Sierra Shared Service Area





2005 Yosemite National Park (south), Sierra National Forest



Photo courtesy of J.Wenz, USDA Forest Service

2005 EWS trapping results

- ❑ 17 of 60 locations have higher than 25 moths/trap
- ❑ High counts recorded in *Eldorado NF, Stanislaus NF, Sierra NF, *Sequoia NF
- ❑ Does not include NESA: Modoc, Tahoe, Lassen, and Plumas NF

■ Sierra National Forest

- Benedict Meadow

- Summit Campground

■ Yosemite

- Chinquapin

- Crane Flat
Campground

- Tuolumne Meadow

■ Stanislaus

- Pinecrest Experimental
Forest

- Hull Creek

- Pinecrest Lake

2005 Egg mass surveys



Photo courtesy of J. Wenz, USDA Forest Service

<i>Forest</i>	<i>Location</i>	<i>*Average count</i>
Sierra	Benedict Meadows	0.16
Sierra	Benedict Meadows	1.62
Sierra	Whiskey Falls	0.00
Sierra	Chilkoot	0.00
Sierra	Summit	0.88
Yosemite	Crane Flat	0.40
Yosemite	Tuolumne Grove	0.80
Yosemite	Chinquapin	1.75
Stanislaus	Hull Creek	0.15
Stanislaus	Pincrest Campground	0.00
Stanislaus	Pincrest Exp. Forest	4.90

** Ave number of egg masses per 3 branches*

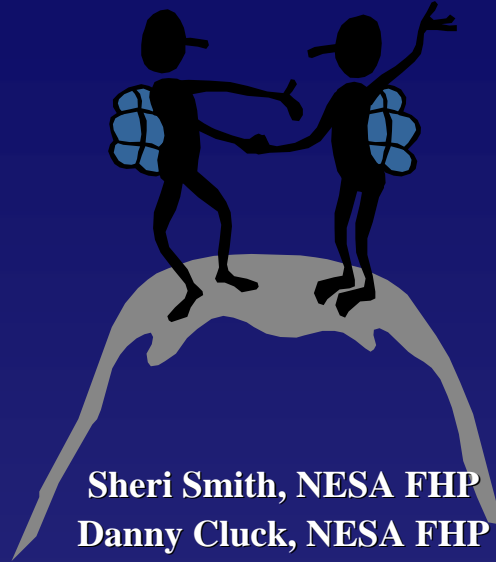
For 2006. . .



Photo courtesy of D. McComb, USDA Forest Service

- Egg masses collected and sent for NPV bioassays
- Possible aerial spraying in Yosemite and surrounding areas
- Possible campground closures in Yosemite, Sierra, and Stanislaus

Many thanks. . .



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