

Contra Costa County Agriculture Department Noxious Weed Program - Treatment Summary 2013

| | Net Acres Treated | Gross Acres Surveyed | Total Sites Surveyed | # of Sites Eradicated | Control Method Used | | | Feasibility of Mechanical Control | Description of Control Process | Program Hours |
|--|-------------------|----------------------|----------------------|-----------------------|---------------------|--------------|----------|--|--|---------------|
| | | | | | Mechanical or Hand | Mow or Graze | Chemical | | | |
| Artichoke Thistle | 179.13 | 181,446 | 496 | 113 | No | No | Yes | Possible, but not practical to dig out. Must go down about 18". | Spot sprayed hundreds of sites throughout County (intense control on about 85% to 90% of the land area in the County where this weed is present). Goal: Eradication | 3,403 |
| Purple Starthistle | 91.21 | 29,902 | 210 | 71 | No | No | Yes | Possible but not practical to dig out. Too many small rosettes that emerge sporadically in the spring/summer. | Spot sprayed over 400 sites throughout County (intense control on more than 90% of the land area where this noxious weed is present in the County) Goal: Eradicate from Alhambra Creek watershed, and stop spread. | 542 |
| Oblong Spurge | 2.41 | 512 | 14 | 2 | No | No | Yes | Extensive root systems. Very limited success with mechanical control attempts. | Spot sprayed 12 sites--mostly in one watershed (estimated 20 other untreated sites in the County) | 46 |
| Heart-, Lens- & Globe-Podded Hoary Cress | 5.46 | 157 | 8 | 3 | No | No | Yes | Extensive root systems. Mechanical removal increases the problem. | Total of 8 known sites in the County (2 new sites discovered this year). Goal: Eradication | 30 |
| Barb Goatgrass | 5.92 | 654 | 3 | 1 | No | No | Yes | Mechanical may work on this species in extremely small areas. Very time consuming. | 1 Site hand pulled, 2 sprayed (2 other large, 20+ acre untreated sites in the County) | 24 |
| Perennial Pepperweed | 31.21 | 2709 | 44 | 2 | No | No | Yes | Very extensive root systems. Mechanical removal increases the problem. | CalTrans rts-of-way plus satellite leading-edge sites are treated; 18 sites were new this year. (Estimate 2,000 net acres untreated in the County and spreading.) Goal is to stop the spread. | 219 |
| Kangaroo Thorn | 0.05 | 6 | 1 | 0 | Yes | No | No | We have chosen to use hand removal. It is effective and we only have one small infestation site. | Mechanical removal. There is only 1 known site in County; 8th year of seedling removal at this site. Goal: Eradication | 8 |
| Pampas Grass | 0.16 | 70 | 5 | 1 | No | No | Yes | Mechanical can be effective but need a backhoe or other heavy equipment. Steep grades and traffic where we treat make this method impractical. | Only CalTrans rts-of-way are treated (pampas grass is fairly common in west county, virtually none outside of urban areas in central and east areas) Goal: keep it out of open rangeland and parkland. | 25 |
| White Horsenettle | 0.70 | 135 | 17 | 2 | No | No | Yes | Very extensive root systems. Mechanical removal increases the problem. | Spot sprayed all 17 known sites in the county. 1 new site discovered this year. Goal: Eradication | 14 |

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|------------------------|-------------------|----------------------|----------------------|-----------------------|---------------------|--------------|----------|--|---|---------------|
| | | | | | Mechanical or Hand | Mow or Graze | Chemical | | | |
| Russian Knapweed | 4.56 | 755 | 7 | 3 | No | No | Yes | Very extensive root systems. Mechanical removal increases the problem. | One new site this year. All sites treated; 3 other sites have been eradicated; no other known sites in the county. Goal: Eradication | 12 |
| Purple Loosestrife | 0.08 | 550 | 1 | 0 | No | No | Yes | Extensive root mats make this method impractical. Mechanical removal increases the problem. | 32 plants treated. Surveyed Walnut Creek & Pacheco Slough for the 11th year, none found upstream this year. Goal: Eradication | 31 |
| Japanese Knotweed | 0.03 | 5.7 | 2 | 0 | No | No | Yes | Very extensive root systems. Mechanical removal greatly increases the problem. | First detected in 2012. Spot sprayed the only two sites in the county. Goal: Eradication | 11 |
| Smooth Distaff Thistle | 0.25 | 21 | 1 | 0 | Yes | No | No | We have chosen to use mechanical removal on this species. It is effective and we only have relatively small infestation sites. | Only 1 site in the county - 8th year of removal. All hand pulled (547 plants). Goal: Eradication | 9 |
| Woolly Distaff Thistle | 0.00 | 2 | 1 | 1 | Yes | No | No | We have chosen to use mechanical removal on this species. It is effective and we only have one small infestation site. | First detected in 2012 - only 2 plants, which were hand pulled. None found in 2013. Goal: Eradication | 2 |
| Red Sesbania | 2,206 plants | 105 | 15 | 6 | Yes | No | No | We have chosen to use mechanical removal on this species. It is hard work but effective and we only have relatively small infestation sites. | All mechanical removal. 8th year of program that involves 3 wildland sites and 11 residential sites. 1 new residential sites was discovered this year. Goal: Eradication | 129 |
| Japanese Dodder | 0.00 | 5 | 49 | 46 | Yes | No | No | We have chosen to use mechanical removal on this species. It is hard work but effective and we only have relatively small infestation sites. | A total of 49 properties have been found infested since the first county find in 2006. All control is by mechanical removal. Of the 49, 3 were in riparian areas, 2 in industrial areas and 46 on residential properties. We have eradicated it from 46 properties (no dodder found for 3 or more years at the site). Goal: Eradication | 45 |
| | Net Acres Treated | Gross Acres Surveyed | Total Sites Surveyed | # of Sites Eradicated | | | | | Other surveying work, Training, and Support Hrs: | 1,902 |
| Totals | 321.92 | 217,035 | 874 | 251 | | | | | TOTAL Noxious Weed Program Hours: | 6,452 |