| | the species highly domesticated? | n | |
|---------|--|---|--|
| | as the species become naturalised where grown? | | |
| | oes the species have weedy races? | | |
| 2.01 5 | pecies suited to US climates (USDA hardiness zones; 0-low, 1-intermediate, 2-high). | | |
| | | 2 | |
| | Quality of climate match data (0-low; 1-intermediate; 2-high). | 2 | |
| | road climate suitability (environmental versatility). | У | |
| | lative or naturalized with mean annual precipitation of 11-60 inches. | У | |
| | oes the species have a history of repeated introductions outside its natural range? | У | |
| | laturalized beyond native range. | У | |
| | arden/amenity/disturbance weed | У | |
| 3.03 W | Veed of agriculture | У | |
| | nvironmental weed | У | |
| 3.05 C | ongeneric weed | у | |
| | roduces spines, thorns or burrs | у | |
| _ | llelopathic | | |
| | arasitic | | |
| 4.04 U | Inpalatable to grazing animals | n | |
| 4.05 T | oxic to animals | n | |
| | ost for recognised pests and pathogens | у | |
| | auses allergies or is otherwise toxic to humans. | n | |
| 4.08 C | reates a fire hazard in natural ecosystems | у | |
| 4.09 Is | a shade tolerant plant at some stage of its life cycle | у | |
| 4.10 G | rows on any soil order representing >5% cover in the US. | У | |
| 4.11 C | limbing or smothering growth habit | | |
| 4.12 F | orms dense thickets | У | |
| 5.01 A | quatic | n | |
| 5.02 G | irass | n | |
| 5.03 N | litrogen fixing woody plant | n | |
| 5.04 G | eophyte | n | |
| 6.01 E | vidence of substantial reproductive failure in native habitat | | |
| 6.02 P | roduces viable seed | У | |
| 6.03 H | lybridizes naturally | У | |
| 6.04 S | elf-compatible or apomictic | У | |
| 6.05 R | equires specialist pollinators | | |
| 6.06 R | eproduction by vegetative propagation | У | |
| | Ainimum generative time (years) | 2 | |
| 7.01 P | ropagules likely to be dispersed unintentionally (plants growing in heavily trafficked | | |
| aı | reas) | | |
| 7.02 P | ropagules dispersed intentionally by people | У | |
| 7.03 P | ropagules likely to disperse as a produce contaminant | | |
| 7.04 P | ropagules adapted to wind dispersal | n | |
| 7.05 P | ropagules water dispersed | у | |
| 7.06 P | ropagules bird dispersed | у | |
| 7.07 P | ropagules dispersed by other animals (externally) | | |
| | ropagules dispersed by other animals (internally) | у | |
| | rolific seed production | y | |
| | vidence that a persistent propagule bank is formed (>1 yr) | y | |
| | Vell controlled by herbicides | Y | |

| Total Score | 29 | |
|--------------------------------------|--------|--|
| Implemented Pacific Second Screening | no | |
| Risk Assessment Results | Reject | |
| Completed 1/7/2014 | | |
| | | |

| | Reference | Source data |
|------|---|---|
| 1.01 | | Cultivated, but no evidence of selection for reduced weediness |
| 1.02 | | Skip to 2.01 |
| 1.03 | | Skip to 2.01 |
| 2.01 | 1. 1.PERAL NAPPFAST Global Plant Hardiness (http://www.nappfast.org/Plant_hardiness/NAPPFAST%20Global %20zones/10a year%20climate/PLANT_HARDINESS_10YR%20lgnd.tif).\$\$ 2. Dave's Garden (http://davesgarden.com/guides/pf/go/1982/[accessed 19 Dec 2013]). 2. Weber (2003)Invasive Plant Species of the World. CABI, Geobotanical Institute, Swiss Fed Inst of Tech, Zurich, Switzerland. Pp. 368-373. | No computer analysis performed. 1. Global hardiness zone 3-10 2. Suitable for USDA zones 3a to 8b 3. Native range well known (British Ilses, France, Mediterranean islands) |
| 2.02 | | No computer analysis performed. Native range well known refer |
| 2.03 | 1. Köppen-Geiger climate map (http://www.hydrol-earth-syst-sci.net/11/1633/2007/hess-11-1633-2007.pdf). 2. Refer to all references in question 2.01. | to source data in 2.01. 1. Distribution in the native and cultivated ranges is very widespread and occurs in more than 3 climatic groups including Aw, Dfa, and Cfa. |
| 2.04 | 1. Brussese (1998) The biology of blackberry in south-eastern Australia. Plant Protection Quarterly 13:160-162. 2. Global Invasive Species Database (http://www.issg.org/database/species/ecology.asp?si=994 [accessed 19 Dec 2013]) | 1. In Australia grows in temperate climates with annual rainfall of at least 27.6 inches (700mm) and occurs at any altitude. 2. average annual rainfall greater than 76 cms (30 inches). |
| 2.05 | 1. Multiple nursery websites (http://www.americanmeadows.com/perennials/berries/blackbe rry-chester; http://www.starkbros.com/products/berry- plants/blackberry-plants; http://www.localharvest.org/blackberries.jsp [accessed 6 Jan 2014]) 2. Invasive Species Compendium (http://www.cabi.org/isc/ [accessed 6 Jan 2014]). 3. USDA Plants Database (http://plants.usda.gov/ accessed 6 Jan 2014]). | 1. Commercially available on internet from multiple sources. 2. Listed as present and invasive in Japan, S. africa, Australia, New Zealand and present in US, Afghanistan, Turkey by CABI. 3. Listed noxious weed, quarantine, or prohibited in United States, Alabama, California, Florida, and Mass. |
| 3.01 | 1. Holm, L. et al. (1979) A Geographical Atlas of World Weeds. John Wiley and Sons, New York. 2. Young (1993) Environmental weeds in Tasmania. Proc 10th Austral Weeds Conf and 14th Asian Pac Weed Science Soc 159-161. 3. Auld et al. (2003) Shared exotica: plant invasions of Japan and SE Australia. Cunninghamia 8:147-152.4. USDA Plants Database (http://plants.usda.gov/accessed 6 Jan 2014]). | 1. Principle weed in Australia and New Zealand. Present as a weed in Turkey and the United States. 2. Blackberry listed as weed in native forestry in Tasmania. 3. Invasive in Japan but not as widespread as it is in Australia. 4. Listed noxious weed, quarantine, or prohibited in United States, Alabama, California, Florida, and Mass. |
| 3.02 | Rubus discolor Weihe & Nees. Himalayan blackberry (www.fs.fed.us/global/iitf/pdf/shrubs/Rubus%20discolor.pdf [accessed 6 Jan 2014]) | See source data 3.04 & 3.04. 1. Grows in vacant lots, logging sites, burned areas, along rivers, roads, fences, and railroad tracks. |
| 3.03 | 1. Amor, Richardson, Pritchard, Bruzzese (1998) Rubus fruticosus L. agg. In "The biology of Australian Weeds". Vol 2 eds. Panetta, Groves, Shepard, pp. 225-246. 2. Global Invasive Species Database (http://www.issg.org/database/species/ecology.asp?si=994 [accessed 19 Dec 2013]) 3. Declared plant policy: blackberry (Rubus fruiticosus) Government of South Australia (www.pir.sa.gov.au/policies/declared_plants/blackberry_policy.pdf [accessed 6 Jan 2014]) | 1. Problem in pastures and forestry plantations in S. Australia. 2. "Forms impenetrable thickets in wastelands, pastures, shrublands, and forest plantations." 3. A weed of agriculture in South Australia. |

3.04 1. Competes aggressively with native species and can exclude 1. Invasive Species Compendium (http://www.cabi.org/isc/ and/or replace natives. Also, soil erosion occurs around the root [accessed 6 Jan 2014]). 2. Balandier et al (2013) Architecture, mass resulting in increased sedimentation in watercourses (and cover and light interception by bramble (Rubus fruticosus): a spreading seeds). 2. Able to tolerate deep shade in forest common understory weed in temperate forests. Forestry 86:39understory impacting tree regeneration including oaks, beech, 46. 3. Hoshovsky (2000) Rubus discolor Weihe & Nees. In Invasive and Douglas fir by crowding out/excluding and/or competing for Plants of California's Wildlands. Bossard et al. eds. Berkley, Los water and nutrients. 3. Dense thickets reduce native species by Angeles, London: Univ of Cali Press p277-281. shading out natives and limit mammal movement. 3.05 1. Holm, L. et al. (1979) A Geographical Atlas of World Weeds. 1. Multiple congeners listed as principle weeds and/or present as John Wiley and Sons, New York. 2. Pest Notes: Wild Blackberries. weed globally (including the United States). 2. Four species of University of California Publication 7434 Rubus considered weeds in California R. laciniatus, R. discolor (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html (fruticosus), R. parviflorus (native), and R. ursinus (native) [accessed 6 Jan 2014]) 1. PIER (http://www.hear.org/pier/species/rubus_discolor.htm 4.01 [accessed 19 Dec 2013]). 2. Global Invasive Species Database 1. Has straight or somewhat curved prickles 6-10 mm long. 2. "Thorny stems" "prickly canes". (http://www.issg.org/database/species/ecology.asp?si=994 [accessed 19 Dec 2013]) 4.02 No evidence 4.03 No evidence 4.04 1. Forsyth and Davis (2011) Diets of non-native deer in Australia estimated by macroscopic versus microhistological rumen 1. Seeds of R. fruticosus detected (sometimes in large quantities) analysis. J Wildlife Manag 75:1488-1497. 2. McEvoy et al. (2005) in rumen of deerin Australia. 2. Grazed woods in native range The effects of livestock grazing on ground flora in broadleaf had less R. fruticosus. 3. deer, elk, rabbits, porcupines, beavers, woodlands in Northern Ireland. Forest Ecol Manage 225:39-50. 3. and mountain beavers consume leaves, buds, twigs, and Tirmenstein (1989) Rubus discolor. In: U.S. Department of cambium, especially during the winter months. A large number Agriculture, Forest Service, Rocky Mountain Research Station, of species consume the fruits and a number rely on the thickets Fire Sciences Laboratory, Fire Effects Information System. of stems for escape and reproductive cover http://www.fs.fed.us/database/feis/plants/shurb/rubdis/all.html . 15 p. 4.05 1. See source data in 4.04 4.06 1. Cheon et al. (2013) First report of cane and leaf rust on Rubus fruticosus caused by Kuehneola uredinis in Korea. Plant Disease 1. Cane and leaf rust (Kuehneola uredinis) observed on R. 97:1115. 2. Bobev, et al. (2013) First report of Candidatus fruticosus in Andong, Korea affecting 90% of leaves on several Phytoplasma solani on blackberry (Rubus fruticosus) in Bulgaria. plants. 2. Severe stunting of single or grouped plants observed in Plant Disease 97:282. 3. Morin et al. (2013) Invaded range of the Plovdiv, Bulgaria identified as Candidatus Phytoplasma solani and blackberry pathogen Phragmidium violaceum in the Pacific is not considered likely to be an isolated case/expected to spread Northwest of the USA and the search for its provenance. Biol Inv to other hosts. 3. Phragmidium violaceum (rust fungus) 15:1847-1861. 4. Rajaguru and Shaw (2010) Genetic widespread on taxa belonging to the Rubus fruticocus aggregate differentiation between hosts and locations in populations of in the Pacific Northwest causing widespread damage on nearly all latent Botrytis cinerea in southern England. Plant Path 59:1081commercial plantings of blackberry cultivars. 4. R. fruticosus is a 1090. 5. Kuzmanovic et al. (2011) Detection of Stolbur host for Botrytis cinerea causing a grey mold leading to phytoplasma on blackberry-a new natural host in Serbia. substantial losses in numberous crops. This study took place in Genetika-Belgrade 43:559-568 (citing abstract). 6. Nordskog et al. Southern England. 5. severe phytoplasma-like disease observed (2003) Fungi occurring on aerial constituents of cultivated in R. fruticosus plants at three locations in central Serbia. 6. blackberry (Rubus fruticosus L.) in Norway. Acta Agric Scandin Recently introduced cultivated R. fruticosus (in Norway) had Sect B 53:21-28 (citing abstract). 7. Reeder et al. (2010) severe die-back and leaf/stem damage. Survey indicated there 'Candidatus Phytoplasma asteris' identified in blackberry (Rubus were 12 pathaogenic fungi adentified in 18 cultivars including fruticsus agg.) in the United Kingdom. Plant Path 59:394. 8. Botytis cinerea, Gnomonia rubi, and Coniothyrium fuckelii. 7. R. Rebollar-Alviter et al. (2012) Fungicide spray programs to fruticosus found along roadside in UK displayed witches manage downy mildew (dryberry) of blackberry caused by brooming caused by 'Candidatus Phytoplasma asteris'. 8. Downey Peronospora sparsa. Crop Protection 42:49-55. 9. Pest Notes: mildew caused by Pernonospora sparsa is a major disease of Wild Blackberries. University of California Publication 7434 blackberry in Mexico. 9. Vector for Pierce's disease to other ag

and non-ag areas.

(http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html

[accessed 6 Jan 2014])

| 4.07 | | No evidence |
|------|---|---|
| 4.08 | 1. Global Invasive Species Database | |
| | (http://www.issg.org/database/species/ecology.asp?si=994 [accessed 19 Dec 2013]) 2. Bruzzese (1998) The biology of blackberry in southeastern Australia. Plant Protection Quarter 13:160-162. 3. Ainsworth and Mahr (2006) "Regrowth of blackberry two years after the 2003 wildfires" in 5th Australian Weeds Conference proceedings: managing weeds in a changing climate Preston et al. eds., Victoria in Weed Management Society of SA. pp211-214. | 1. Dense thickets and litter buildup can cause potential fire hazards. 2. Because R. fruticosus has a biennual growth habit, there is much dead biomass from previous years resulting in increases in fuels for fire. 3. Even with high fire intensities, some blackberry always survived to produce new stems the following growing season." |
| 4.09 | 1. Balandier et al (2013) Architecture, cover and light interception by bramble (Rubus fruticosus): a common understory weed in temperate forests. Forestry 86:39-46. 2. Balkan Ecology Project (http://www.balkep.org/ [accessed 19 Dec 2013]). 3.Caplan and Yeakley (2006) Rubus armeniacus (Himalayan blackberry) occurrence and growth in relation to soil and light condtions in Western Oregon. Northwest Sci 80:9-17. 4. Amor and Stephens (1976) Spread of weeds from roadsides into sclerophyll forest at Dartmore, Australia. Weed Research 16:111-118. | 1. Bramble present in understory with canopy openness of only 5-7% indicating R. fruticosus can tolerate deep shade. 2. Can grow in full shade, semi shade, or no shade. 3. Present uder open to nearly closed canopies (0-88% canopy cover). 4. Where native vegetation produces sufficient shade it may exclude blackberry. |
| 4.10 | 1. Balkan Ecology Project (http://www.balkep.org/ [accessed 19 Dec 2013]) 2. Bernard and Brown (1977) Distribution of mammals, reptiles, and amphibians by BLM physiographic regions and A.W. Kuchler's associations for the eleven western states. Tech. Note 301. Denver, CO: U.S. Department of the Interior, Bureau of Land Management. 169 p. 3. Core (1974) Brambles. In: Gill and Healy, compilers. Shrubs and vines for Northeastern wildlife. Gen. Tech. Rep.NE-9. Broomall, PA: U.S. Department of Agriculture, Forest Service:16-19. | 1. Soil pH acid, neutral-basic alkaline, can grow in very acid and very alkaline soils. Suitable for light (sandy), medium (loamy), and heavy (clay) soils. 2. Blackberries grow well on a variety of barren, infertile soil types. 3. These shrubs tolerate a wide range of soil pH and texture, but do require adequate soil moisture |
| 4.11 | | No evidence |
| 4.12 | 1. Global Invasive Species Database (http://www.issg.org/database/species/ecology.asp?si=994 [accessed 19 Dec 2013]) 2. Declared plant policy: blackberry (Rubus fruiticosus) Government of South Australia (www.pir.sa.gov.au/policies/declared_plants/blackberry_po licy.pdf [accessed 6 Jan 2014]) 3. Starr et al. (2003) Rubus discolor. (http://www.hear.org/Pier/pdf/pohreports/rubus_discolor.pdf. [accessed 6 Jan 2014]) | 1. "Forms impenetrable thickets in wastelands, pastures, shrublands, and forest plantations." 2. Forms dense thickets in forested gullies, on roadsides and along creeks. 3. brambling vine that bears sharp pricklesand forms impenetrable thickets. |
| 5.01 | | |
| 5.02 | | |
| 5.03 | | |
| 5.04 | | No ovidence |
| 6.01 | 1 Part Notae: Wild Plackharrias University of California | No evidence |
| 6.02 | Pest Notes: Wild Blackberries. University of California Publication 7434 (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html [accessed 6 Jan 2014]) | See source data 6.04, 6.07, 8.01, 8.02 1. viable seeds are spread from one area to another and hard seed coat and can remain dormant for an extended period of time. |

| 6.03 | 1. Himalayan blackberry. Rubus discolor Weihe & Nees 2005. | |
|------|--|---|
| | (www.uaf.edu/ces/ipm/profiles/RUDI.pdf accessed 6 Jan 2014])2. Tirmenstein (1989) Rubus discolor. In: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Fire Effects Information System. http://www.fs.fed.us/database/feis/plants/shurb/rubdis/all.html . 15 p. | Himalayan blackberry hybridizes with R. thyrsiger, R. calvatus, and R. schlechtendalii |
| | Balkan Ecology Project (http://www.balkep.org/ [accessed 19 Dec 2013]) 2. Pest Notes: Wild Blackberries. University of California Publication 7434 (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html [accessed 6 Jan 2014]) | R. fruticosus is self fertile. 2. Bees are the primary pollinators, but the flowers can also be self-pollinated (crossing increases fruit set). |
| 6.05 | | No evidence |
| | 1. Pest Notes: Wild Blackberries. University of California Publication 7434 (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html [accessed 6 Jan 2014]) 2. Willoughby and Davilla (1984) Plant species composition and life form spectra of tidal streambanks and adjacent riparian woodlands along the lower Sacramento River. In: Warner and Hendrix eds. California riparian systems: Ecology, conservation, and productive management: Proceedings of a conference; 1981 September 17-19; Davis, CA. Berkeley, CA: University of California Press: 642-651. | 1. Expansion of established thicket is "almost always the result of vegetative growth from rhizhomes.". 2. capable of extensive and vigourous vegetative regeneration. |
| 6.07 | Balkan Ecology Project (http://www.balkep.org/ [accessed 19 Dec 2013]) Tirmenstein (1989) Rubus discolor. In: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Fire Effects Information System. http://www.fs.fed.us/database/feis/plants/shurb/rubdis/all.html 15 p. | 1. Years to bearing fruit :2-3 years. 2. Biennial and second year canes bear fruit |
| 7.01 | 1. Alston and Richardson (2006) The roles of habitat features, disturbance, and distance from putative source populations in structuring alien plant invasions at the urban/wildland interface on the Cape Peninsula, South Africa. Biol Cons 132:183-198. 2. River (2008) Best practice management guide for environmental weeds: Blackberry, Rubus fruticosus aggregate. CRC for Australian Weed Mangement. (www.weeds.org.au/WoNS/blackberry/docs/Blackberry_BPMG.pdf [accessed 6 Jan 2014]) | 1. "widespread weed species (e.g. Hypochaeris radicata, Plantago lanceolata, Rubus fruticosus, Taraxacum officinale) that are not cultivated as ornamentals and which were probably introduced with road material, or by hikers or in horse dung" 2. Seeds can also be spread in contaminated soil. |
| 7.02 | 1. Starr et al. (2003) Rubus discolor. (http://www.hear.org/Pier/pdf/pohreports/rubus_discolor.pdf. [accessed 6 Jan 2014]) | R Fruticosus is widely cultivated 1. Spreads rapidly from plantings. Humans transport the plant long distances for use as ornamental or for harvest. |
| 7.03 | | No evidence |
| 7.04 | | No evidence |
| 7.05 | 1. Hoshovsky (2000) Rubus discolor Weihe & Nees. In Invasive Plants of California's Wildlands. Bossard et al. eds. Berkley, Los Angeles, London: Univ of Cali Press p277-281. | 1. seeds can be dispersed considerable distances by streams and rivers. |

| 7.06 | 1. Francis ed. (2009) Wildland Shrubs of the United States and its Territories: Thamnic Descriptions General Technical Report IITF- | |
|------|--|---|
| | WB-1. USDA, Forest Service International Institute of Tropical Forestry and Shrub Sciences Laboratory (online resource [accessed 23 Dec 2013]) 2. Declared plant policy: blackberry (Rubus fruiticosus) Government of South Australia (www.pir.sa.gov.au/policies/declared_plants/blackberry_policy.pdf [accessed 6 Jan 2014]) 3. Starr et al. (2003) Rubus discolor. (http://www.hear.org/Pier/pdf/pohreports/rubus_discolor.pdf. | Seeds are dispersed by birds and mammals as well as by gravity. 2. "new infestations can start from seeds which are spread by birds and mammals." 3. Spread is facilitated by fruit eating birds and mammals. |
| | [accessed 6 Jan 2014]) | |
| 7.07 | | No evidence |
| | 1. Francis ed. (2009) Wildland Shrubs of the United States and its Territories: Thamnic Descriptions General Technical Report IITF-WB-1. USDA, Forest Service International Institute of Tropical Forestry and Shrub Sciences Laboratory (online resource [accessed 23 Dec 2013]) 2. Forsyth and Davis (2011) Diets of nonnative deer in Australia estimated by macroscopic versus microhistological rumen analysis. J Wildlife Manag 75:1488-1497. 3. Declared plant policy: blackberry (Rubus fruiticosus) Government of South Australia (www.pir.sa.gov.au/policies/declared_plants/blackberry_policy.pdf [accessed 6 Jan 2014]) 4. Starr et al. (2003) Rubus discolor. (http://www.hear.org/Pier/pdf/pohreports/rubus_discolor.pdf. [accessed 6 Jan 2014]) | 1. Seeds are dispersed by birds and mammals as well as by gravity. 2. Seeds of R. fruticosus detected (sometimes in large quantities) in rumen of deerin Australia. 3. "new infestations can start from seeds which are spread by birds and mammals." 4. Spread is facilitated by fruit eating birds and mammals. |
| 8.01 | 1. Amor (1974) Ecology and control of blackberry (Rubus fruticosus L. agg.) II. Reproduction. Weed Res 14:213-238. 2. McDowell and Turner (2002) Reproductive effort in invasive and non-invasive Rubus. Oecologia 133:102-111. 3. Tirmenstein (1989) Rubus discolor. In: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Fire Effects Information System. http://www.fs.fed.us/database/feis/plants/shurb/rubdis/all.html . 15 p. | 1. Thicket can produce 7000-13000 seeds per square meter. 2. Invasive R. discolor (fruticosus) invested more resources to reproduction than a native congener with increases in fruit number and fruit biomass relative to size (1.80 g fruit/ g total biomass compared to R. ursinus at 0.87 g/g). 3. There are 324,000 cleaned seeds/kg. 4. Each berry may contain as many as 80 seeds. |
| 8.02 | 1. Brinkman (1974) Rubus. In: Seeds of Woody Plants in the US. Eds. Schopmeyer. US Agriculture Handbook No. 450. 2. Pest Notes: Wild Blackberries. University of California Publication 7434 (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html [accessed 6 Jan 2014]) 3. Bernard and Brown (1977) Distribution of mammals, reptiles, and amphibians by BLM physiographic regions and A.W. Kuchler's associations for the eleven western states. Tech. Note 301. Denver, CO: U.S. Department of the | 1. Seeds can remain dormant for several years. 2. Hard seed coat and can remain dormant for an extended period of time. 3. Seeds of most blackberries can remain viable when stored in the soil for a period of at least several years |

| 8.03 | 1. Peachey, E., editor. 2013. Pacific Northwest Weed | |
|------|---|--|
| | Management Handbook [online]. Corvallis, OR: Oregon State | 1. Controlled by glyphosate (with possible re-treatment), |
| | University. http://pnwhandbooks.org/weed (accessed 31 July | metsulfuron, picloram, or triclopyr ester. 2. Several treatments |
| | 2013). 2. Parsons and Amor (1968) Comparisonsof herbicides and | resulted in up to 90% kill with Picloram and amitrole T as the |
| | times of spraying for the control of blackberry (Rubus fruticosus). | most effective treatments. 3. Pyridine herbicides provided best |
| | Aust J Exp Ag Anim Husb 8:238-243. 3. Ferrell et al. (2009) | control when applied in the fall with 83% control 12 mo after |
| | Influence of herbicide and application timing on blackberry | application (65% control when applied in the spring). 4. Dormant |
| | control. Weed Tach 23:531-534. 4. Willoughby et al. (2013) | season application of 0.96 kg/ha triclopyr in water effectively |
| | Triclopyr applied in the winter dormant season can give effective | controlled bramble while leaving the dormant seedlings of oak, |
| | control of bramble (Rubus fruticosus L. agg.) without damaging | beech, ash, birch, etc. unharmed. |
| | yound tree seedlings or other non-target vegetation. | |
| 8.04 | 1. Pest Notes: Wild Blackberries. University of California | |
| | Publication 7434 | Unknown if it benefits plant, however Rubus is able to |
| | (http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn7434.html | regenerate after mowing, burning, or herbicide treatment. |
| | [accessed 6 Jan 2014]) | |
| 8.05 | | No evidence |