

***Brodiaea orcuttii* - Orcutt's brodiaea**

Occurrence ID	IMA?	MU	Occurrence Name	Preserve	Land Owner	Land Manager	Max Pop Size	Year of Max Pop	Most Recent Pop Size	Year of Recent Pop Size	Threats	Source
<i>Large Occurrences (≥1,000 plants since 2010)</i>												
BROR_2GEDY001	Yes	2	General Dynamics-East	General Dynamics	LNR Kearny Mesa Inc.	LNR Kearny Mesa Inc.	100,232	2010			None identified	MOM; City of San Diego 2003
BROR_4SIPR013	Yes	4	Simon Preserve	Simon Preserve	County of San Diego Department of Parks and Recreation	County of San Diego Department of Parks and Recreation	1,000s	2009	140	2016	Invasive nonnative annual grass and forb species associated with all 4 populations in 2009. In 2016, nonnative forbs and grasses covered >75% of occupied extent. Altered fire regime leading to more invasive nonnative plants, occurrence burned in 1928 and 2003. Historic grazing throughout occurrence. Erosion in drainage encompassing 25-50% of mapped extent.	Rare Plant 2016; MOM; CALFIRE RAP Fire Perimeters; Dudek 2010
BROR_4USIU014	Yes	4	United States International University	Elliot Preserve	Regents of the University of California	Regents of the University of California	11,000	2001	188	2016	Nonnative forbs and grasses cover over 75% of mapped occurrence and nonnative woody plants (acacias) <10%. Signs of dumping/trash and historic grazing with altered hydrology, urban runoff and erosion adjacent to occurrence. Altered fire regime leading to nonnative plants, occurrence burned in 2003.	Rare Plant 2014, 2016; CALFIRE RAP Fire Perimeters
BROR_6CACA015	Yes	6	Carroll Canyon Vernal Pool Preserve	Carroll Canyon Vernal Pool Preserve	City of San Diego	City of San Diego Park and Recreation Department	10,247	2003	1,273	2015	Argentine ants, nonnative forbs, nonnative grasses, other disturbances	Rare Plant 2014, 2015
BROR_6DARA016	Yes	6	Daley Ranch	Daley Ranch Open Space Preserve	City of Escondido	City of Escondido	2,137	2001	67	2016	Nonnative forbs in >75% of mapped extent and nonnative grasses in 50-75%. Altered fire regime leading to nonnative plants, occurrence burned in 1987 and 2003. Signs of trampling, historic grazing and soil compaction. Two hiking trails cross through the population with use by hikers, bikers and dog walkers.	Rare Plant 2016; MOM; CALFIRE RAP Fire Perimeters; SANDAG 2003; CNDDDB 2013

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BROR_6DMME017	Yes	6	Del Mar Mesa	Los Penasquitos Canyon Preserve	City San Diego	City San Diego PRD	230,100	2010	4,400	2016	Nonnative forbs and grasses (including <i>Brachypodium distachyon</i>) cover >75% of the maximum extent. Trampling throughout 10-25% of occurrence with unauthorized trail use by hikers at one sample plot and a dirt access road in another plot.	MOM; City of San Diego 2003; CNDDDB 2013
BROR_6LORI018	Yes	6	Lopez Ridge	Los Penasquitos Canyon Preserve	City of San Diego	City of San Diego Park and Recreation Department	3,067	2013	1,771	2015	Nonnative forbs, nonnative grasses	Rare Plant 2014, 2015
<i>Small Occurrences (<1,000 plants since 2010)</i>												
BROR_2NODR002	Yes	2	Nobel Drive	Rose Canyon Open Space	City of San Diego	City of San Diego Park and Recreation Department	78	2011	0	2015	Nonnative forbs, nonnative grasses, vegetation clearing, ORV or mountain bikes	Rare Plant 2014, 2015
BROR_3OTMT007	Yes	3	Otay Mountain #1	Otay Mountain Ecological Reserve	California Department of Fish and Wildlife	California Department of Fish and Wildlife			1	2016	Nonnative forbs in 10-25% of mapped extent and nonnative grasses in 25-50%. Signs of nonnative woody plants and dumping/trash. Altered fire regime leading to nonnative plants, occurrence burned in 1996, 2003 and 2007.	MOM; CALFIRE RAP Fire Perimeters; SDNHM 2013; CCH 2013
BROR_3SYPA008	Yes	3	San Ysidro Parcel	Otay Ranch Preserve	City of Chula Vista	Otay POM			20	2010	Altered fire regime leading to nonnative plants, occurrence burned in 1987, 1994, 1996, 2003 and 2007.	MOM; CALFIRE RAP Fire Perimeters; County of San Diego 2002; RECON 2011

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BROR_3COCA025	Yes	3	Copper Canyon	Otay Mountain Wilderness Area	Bureau of Land Management	Bureau of Land Management			500	2016	Nonnative forbs and grasses encompass >75% of mapped extent with nonnative woody plants in <10%. Dumping, trash and encampments in over 75% of mapped extent with signs of trampling and illegal trails. Burned in 2003. Management may not be feasible as access is very difficult.	Rare Plant 2016
BROR_3OTMT026	Yes	3	Otay Mountain #2	Bureau of Land Management	Bureau of Land Management	Bureau of Land Management			24	2016	Nonnative forbs in 10-25% of mapped extent and nonnative grasses in 50-75%. Signs of nonnative woody plants (tamarisk), dumping/trash, and erosion. Altered fire regime leading to nonnative plants, occurrence burned in 1996, 2003 and 2007.	Rare Plant 2016; CALFIRE RAP Fire Perimeters
BROR_4BOPR009	Yes	4	Boulder Oaks Preserve	Boulder Oaks Preserve	County of San Diego	County of San Diego Department of Parks and Recreation	200	2007	0	2016	Nonnative grasses, including dense infestation of <i>Ehrharta calycina</i> , throughout area where occurrence was historically mapped. Altered fire regime leading to nonnative plants, occurrence burned in 1913, 1984 and 2003.	MOM; CALFIRE RAP Fire Perimeters; Jones and Stokes 2007; CCH 2013
BROR_4OACR012	Yes	4	Oak Creek	Mission Trails Regional Park	City of San Diego	City of San Diego Park and Recreation Department			19	2015	Altered fire regime leading to nonnative plants, occurrence burned in 1981 and 2003.	Rare Plant 2014, 2015; CALFIRE RAP Fire Perimeters
BROR_6ECPR024	Yes	6	Escondido Creek Preserve	Escondido Preserve	County of San Diego	County of San Diego DPR	600	?	56	2016	Nonnative forbs and grasses encompass >75% of mapped extent with thick thatch cover. Signs of dumping/trash and an utility road runs through population.	Rare Plant 2016

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BROR_6RLCO020	Yes	6	Rancho La Costa	Rancho La Costa Habitat Conservation Area	Center for Natural Lands Management	Center for Natural Lands Management	853	2003	339	2016	Herbivory may be affecting ability of plants to reach flowering stage.	MOM; CNLM 2013 GIS Data, Rare Plant 2016
BROR_6SFVA021	Yes	6	Santa Fe Valley (Bernardo Lake)	The Crosby at Rancho Santa Fe	County of San Diego	County of San Diego Department of Parks and Recreation			0	2007	Threats include artichoke thistle and potential trespass from homes being build adjacent to vernal pool preserve as fence is in poor condition. Altered fire regime leading to nonnative plants, occurrence burned in 1943 and 2007.	MOM; CALFIRE RAP Fire Perimeters; County of San Diego 2007
BROR_8MTOL023	Yes	8	Mount Olympus	Mount Olympus Preserve	County of San Diego Department of Parks and Recreation	County of San Diego Department of Parks and Recreation	>650	2016	200	2009	Partial count in 2016 within sample plot, count for entire extent not yet available. Nonnative forbs and grasses throughout 75-100% of mapped extent. Yellow starthistle on the ridge to the west in 2009. Trails show use by hikers, bikers and dog walkers.	Rare Plant 2016; MOM; Michael Brandman Assoc 2010; SANBIOS 2012
<i>Unknown Size Occurrences</i>												
BROR_3CECA004	Yes	3	Cedar Canyon	Otay Mountain Wilderness Area	Bureau of Land Management	Bureau of Land Management					Altered fire regime leading to nonnative plants, occurrence burned in 2003.	MOM; CALFIRE RAP Fire Perimeters; McEachern et al.
BROR_3NSYP006	Yes	3	North San Ysidro Parcel	Otay Ranch Preserve	City of Chula Vista	Otay POM					Invasive nonnative plants such as pampass grass, fennel and tamarisk. Altered fire regime leading to nonnative plants, occurrence burned in 1987, 1994, 1996, 2003 and 2007.	MOM; CALFIRE RAP Fire Perimeters; County of San Diego 2002; RECON 2012

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BROR_4ECRE010	Yes	4	North of El Capitan Reservoir	Cleveland National Forest	U.S. Forest Service	U.S. Forest Service					Altered fire regime leading to nonnative plants, occurrence burned in 1917, 1928, 1956, 2003 and 2007.	MOM; CALFIRE RAP Fire Perimeters; SDNHM 2013; CCH 2013
BROR_4ECRE011	Yes	4	West of El Capitan Reservoir	Cleveland National Forest	U.S. Forest Service	U.S. Forest Service					Altered fire regime leading to nonnative plants, occurrence burned in 1928, 1956, 2003 and 2007.	MOM; CALFIRE RAP Fire Perimeters; SDNHM 2013; CCH 2013
BROR_7WAEN022	No	7	Water's End	Water's End	Water's End HOA	Water's End HOA					Unknown	MOM; Kris Preston; SANDAG Major Pop Species shapefile