

Table 2-7
Terra Bella Irrigation District
Historical Groundwater Budget 1986/87 to 2023/24

Water Year	Groundwater Inflows (acre-ft)																				
	Areal Recharge from Precipitation	Tule River				Deer Creek				White River	Imported Water Deliveries			Agricultural Pumping (Groundwater)	Municipal Pumping			Subsurface Inflow		Mountain-Block Recharge	Total In
		Success to Oettle Bridge Infiltration	Recharge in Basins	Canal Loss	Return Flow of Applied Irrigation Water	Infiltration Before Trenton Weir	Canal Loss	Recharge in Basin	Return Flows of Applied Irrigation Water	Infiltration Before DEID	Recharge in Basins	Canal Loss	Return Flows	Irrigated Agriculture (Return Flows of Applied Irrigation Water)	Return Flow of Applied Irrigation Water	Agricultural Return Flow	Artificial Recharge	From Outside Subbasin	From Other GSAs		
1987	1,800	NA	NA	NA	NA	700	0	800	0	NA	0	0	2,200	1,700	400	0	0	0	24,400	5,100	37,000
1988	300	NA	NA	NA	NA	500	0	500	0	NA	0	0	4,600	900	500	0	0	0	25,900	5,100	38,200
1989	0	NA	NA	NA	NA	700	0	0	0	NA	0	0	4,200	1,100	500	0	0	0	26,300	5,100	37,800
1990	300	NA	NA	NA	NA	400	0	0	0	NA	0	0	5,400	1,000	500	0	0	0	27,400	5,100	40,100
1991	1,300	NA	NA	NA	NA	600	0	0	0	NA	0	0	3,900	800	500	0	0	0	28,300	5,100	40,600
1992	0	NA	NA	NA	NA	200	0	1,100	0	NA	0	0	3,100	1,400	500	0	0	0	28,300	5,100	39,700
1993	3,000	NA	NA	NA	NA	1,000	0	4,000	0	NA	0	0	2,200	1,900	500	0	0	0	28,200	5,100	45,900
1994	0	NA	NA	NA	NA	400	0	2,600	0	NA	0	0	2,700	2,600	500	0	0	0	27,500	5,100	41,400
1995	5,600	NA	NA	NA	NA	1,600	0	3,400	0	NA	0	0	2,300	1,900	500	0	0	0	29,500	5,100	49,800
1996	0	NA	NA	NA	NA	1,000	0	2,600	0	NA	0	0	3,300	2,100	600	0	0	0	28,100	5,100	42,800
1997	1,900	NA	NA	NA	NA	3,900	0	1,400	0	NA	0	0	2,800	2,100	600	0	0	0	29,900	5,100	47,600
1998	9,000	NA	NA	NA	NA	1,200	0	2,000	0	NA	0	0	1,900	2,100	600	0	0	0	30,600	5,100	52,400
1999	500	NA	NA	NA	NA	800	0	4,200	0	NA	0	0	2,600	2,200	600	0	0	0	28,300	5,100	44,300
2000	800	NA	NA	NA	NA	800	0	700	0	NA	0	0	2,800	2,000	600	0	0	0	28,100	5,100	40,900
2001	0	NA	NA	NA	NA	500	0	1,600	0	NA	0	0	2,700	1,700	600	0	0	0	28,000	5,100	40,200
2002	0	NA	NA	NA	NA	700	0	2,400	0	NA	0	0	2,900	2,200	600	0	0	0	27,700	5,100	41,600
2003	100	NA	NA	NA	NA	1,100	0	1,000	0	NA	0	0	2,400	2,100	600	0	0	0	27,500	5,100	39,900
2004	0	NA	NA	NA	NA	400	0	1,700	0	NA	0	0	3,000	2,500	600	0	0	0	27,000	5,100	40,400
2005	2,800	NA	NA	NA	NA	1,200	0	600	0	NA	0	0	1,900	1,900	600	0	0	0	27,600	5,100	41,800
2006	3,200	NA	NA	NA	NA	1,200	0	900	0	NA	0	0	6,700	800	600	0	0	0	28,600	5,100	47,200
2007	0	NA	NA	NA	NA	600	0	100	0	NA	0	0	4,000	2,200	600	0	0	0	28,000	5,100	40,600
2008	0	NA	NA	NA	NA	700	0	500	0	NA	0	0	2,300	1,700	600	0	0	0	26,700	5,100	37,500
2009	0	NA	NA	NA	NA	300	0	7,000	0	NA	0	0	3,200	1,000	600	0	0	0	26,400	5,100	43,700
2010	1,400	NA	NA	NA	NA	1,200	0	3,200	0	NA	0	0	3,900	600	600	0	0	0	27,500	5,100	43,400
2011	5,300	NA	NA	NA	NA	2,200	0	0	0	NA	0	0	5,900	200	600	0	0	0	32,200	5,100	51,500
2012	1,400	NA	NA	NA	NA	600	0	4,500	0	NA	0	0	7,100	200	600	0	0	0	32,800	5,100	52,200
2013	0	NA	NA	NA	NA	300	0	1,300	0	NA	0	0	3,600	200	600	0	0	0	31,800	5,100	42,900
2014	0	NA	NA	NA	NA	200	0	0	0	NA	0	0	3,200	1,000	600	0	0	0	30,800	5,100	40,900
2015	0	NA	NA	NA	NA	100	0	0	0	NA	0	0	3,800	900	600	0	0	0	30,000	5,100	40,400
2016	1,800	NA	NA	NA	NA	1,300	0	100	0	NA	0	0	6,700	100	600	0	0	0	31,500	5,100	47,000
2017	3,200	NA	NA	NA	NA	4,500	0	0	0	NA	0	0	7,800	400	600	0	0	0	37,000	5,100	58,700
2018	0	NA	NA	NA	NA	800	0	0	0	NA	0	0	10,500	0	600	0	0	0	35,000	5,100	51,900
2019	4,200	NA	NA	NA	NA	2,600	0	0	0	NA	0	0	9,200	100	600	0	0	0	39,300	5,100	60,900
2020	0	NA	NA	NA	NA	700	0	0	0	NA	0	0	3,200	1,200	600	0	0	0	35,700	5,100	46,500
2021	0	NA	NA	NA	NA	200	0	0	0	NA	0	0	2,600	900	600	0	0	0	35,700	5,100	45,100
2022	0	NA	NA	NA	NA	400	0	0	0	NA	0	0	3,900	800	600	0	0	0	35,700	5,100	46,500
2023	7,200	NA	NA	NA	NA	2,400	0	0	0	NA	0	0	3,800	700	600	0	0	0	35,700	5,100	55,500
2024	0	NA	NA	NA	NA	1,800	0	0	0	NA	0	0	2,700	700	600	0	0	0	35,700	5,100	46,600
Average	1,500	NA	NA	NA	NA	1,000	0	1,300	0	NA	0	0	4,000	1,300	600	0	0	0	30,100	5,100	44,800

Groundwater Inflows to be Included in the Native Yield Estimate

Groundwater Inflows to be Excluded from the Native Yield Estimate

Surface Water or Groundwater Outflows Not Included in Native Yield Estimate

Note: 2019/20 to 2023/24: Aquitard change in storage from analysis of InSAR land subsidence. Sub-surface Inflow and Outflow equal to 2015/16 to 2018/19 average

Terra Bella Irrigation District
Historical Groundwater Budget 1986/87 to 2023/24

Groundwater Outflows (acre-ft)				
Groundwater Pumping		Sub-surface Outflow		Total Out
Municipal	Agriculture	To Outside Subbasin	To Other GSAs	
-700	-12,600	0	-23,900	-37,200
-700	-6,700	0	-27,600	-35,000
-800	-8,000	0	-30,000	-38,800
-800	-7,100	0	-32,200	-40,100
-800	-6,100	0	-33,100	-39,900
-800	-10,400	0	-31,700	-43,000
-800	-14,100	0	-33,700	-48,600
-900	-19,100	0	-27,700	-47,600
-900	-13,700	0	-33,000	-47,500
-900	-15,600	0	-30,200	-46,700
-900	-15,500	0	-31,400	-47,800
-900	-15,500	0	-34,800	-51,300
-1,000	-16,000	0	-31,000	-48,000
-1,000	-14,500	0	-27,600	-43,100
-1,000	-12,500	0	-28,100	-41,600
-1,000	-16,000	0	-28,900	-45,900
-1,000	-15,100	0	-27,300	-43,400
-1,000	-18,500	0	-28,400	-47,800
-1,000	-14,000	0	-28,100	-43,100
-1,000	-5,600	0	-32,500	-39,100
-1,000	-15,900	0	-31,100	-48,000
-1,000	-12,200	0	-28,000	-41,200
-1,000	-7,700	0	-32,800	-41,500
-1,000	-4,400	0	-34,400	-39,800
-1,000	-1,500	0	-42,000	-44,500
-1,000	-1,300	0	-47,400	-49,600
-1,000	-1,800	0	-42,600	-45,400
-900	-7,500	0	-37,000	-45,500
-900	-6,300	0	-36,500	-43,700
-900	-500	0	-42,000	-43,400
-900	-2,700	0	-51,000	-54,700
-900	0	0	-49,800	-50,700
-900	-600	0	-56,300	-57,900
-900	-9,200	0	-49,800	-59,900
-900	-6,900	0	-49,800	-57,600
-900	-6,800	0	-49,800	-57,500
-900	-5,900	0	-49,800	-56,600
-900	-5,500	0	-49,800	-56,200
-900	-9,300	0	-36,300	-46,600

Change in Storage (acre-ft)		
Aquitard Change in Storage	Aquifer Change in Storage	Total Change in Storage
500	-700	-200
3,100	100	3,200
-300	-700	-1,000
700	-700	0
700	-100	600
-2,500	-800	-3,300
-2,900	200	-2,700
-3,900	-2,300	-6,300
400	1,900	2,300
-2,400	-1,500	-3,900
-1,500	1,300	-200
500	600	1,100
-2,400	-1,200	-3,600
-600	-1,500	-2,200
-500	-900	-1,400
-2,500	-1,700	-4,300
-2,000	-1,400	-3,500
-4,800	-2,700	-7,400
-1,300	0	-1,300
4,100	4,000	8,100
-4,500	-2,900	-7,400
-1,500	-2,100	-3,700
300	1,900	2,200
1,500	2,100	3,600
4,000	3,000	7,000
500	2,100	2,600
-1,600	-900	-2,500
-2,300	-2,200	-4,600
-1,200	-2,100	-3,200
3,100	600	3,600
300	3,700	4,000
1,800	-600	1,100
1,200	1,900	3,100
-600	-12,800	-13,400
-100	-12,400	-12,500
-600	-10,400	-11,000
-800	-300	-1,100
-1,000	-8,600	-9,600
-500	-1,300	-1,800

Groundwater Inflows to be Included in the Native Yield Estimate



Surface Water or Groundwater Outflows Not Included in Native Yield Estimate