

# Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

## Exhibit Summary

This exhibit contains ground water quality data associated with dairy facilities that are actively discharging wastewater and those that have discharged wastewater in the past but are currently inactive. Of the 168 dairy facilities considered in this exhibit, 144 are currently active and 24 are currently inactive.

The exhibit contains the single highest nitrate-nitrogen concentration in ground water ever documented at each dairy facility. The data does not include the highest concentration associated with each monitoring well; rather it contains only the single highest concentration of nitrate-nitrogen out of all monitored sources at the dairy facility. This is different than the recent quarterly ground water data utilized for NMED Exhibit SKM - 1, which is comprised of nitrate-nitrogen contamination in ground water sampled from multiple monitoring wells associated with multiple sources at each dairy facility.

The laboratory analyses associated with all monitoring well data submitted by dairy facilities is provided in NMED Exhibit SKM - 3.



# Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

## Historical Nitrate-Nitrogen Contamination at Dairy Facilities

Figure 1 below (summarized from the data in Table 1) shows that of the 168 active and inactive dairy facilities;

- 72 % (121 facilities) have had nitrate-nitrogen contamination in ground water during the history of the facility.
- 24.4 % (41 facilities) have never had documented nitrate-nitrogen contamination in ground water during the history of the facility.
- 3.6 % (6 facilities) have never had a monitoring well(s) to assess the potential impacts on ground water quality from contamination sources at the dairy facility.

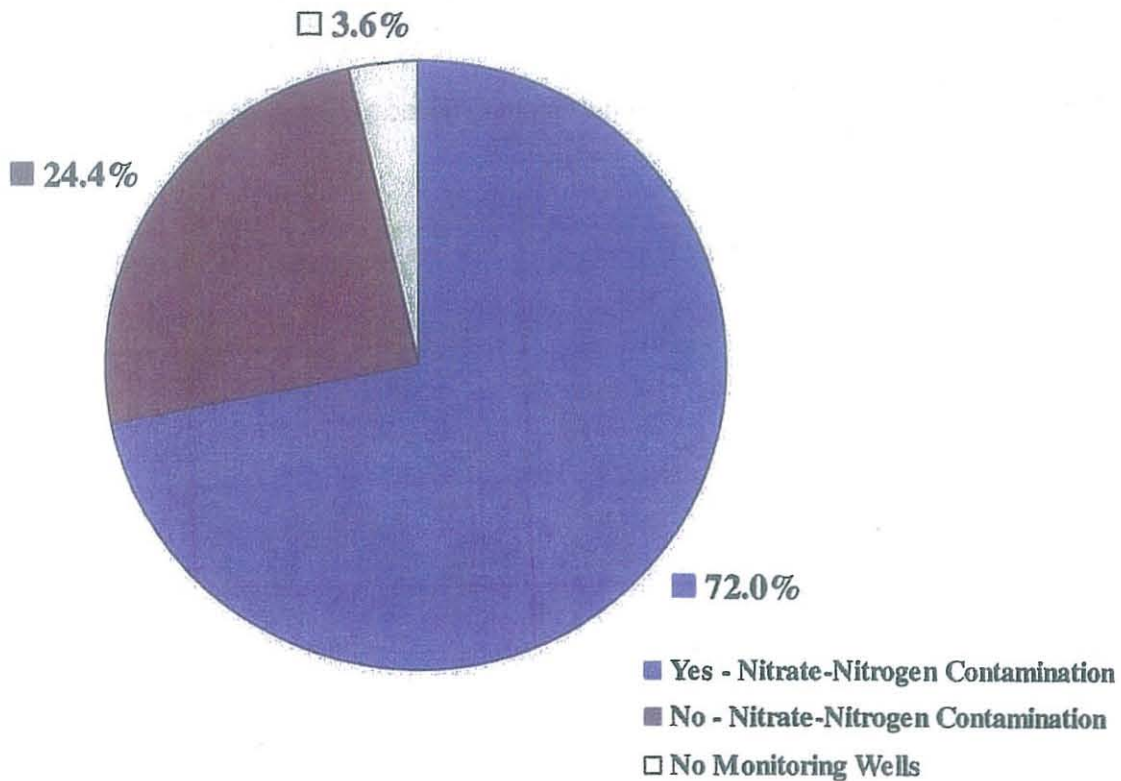


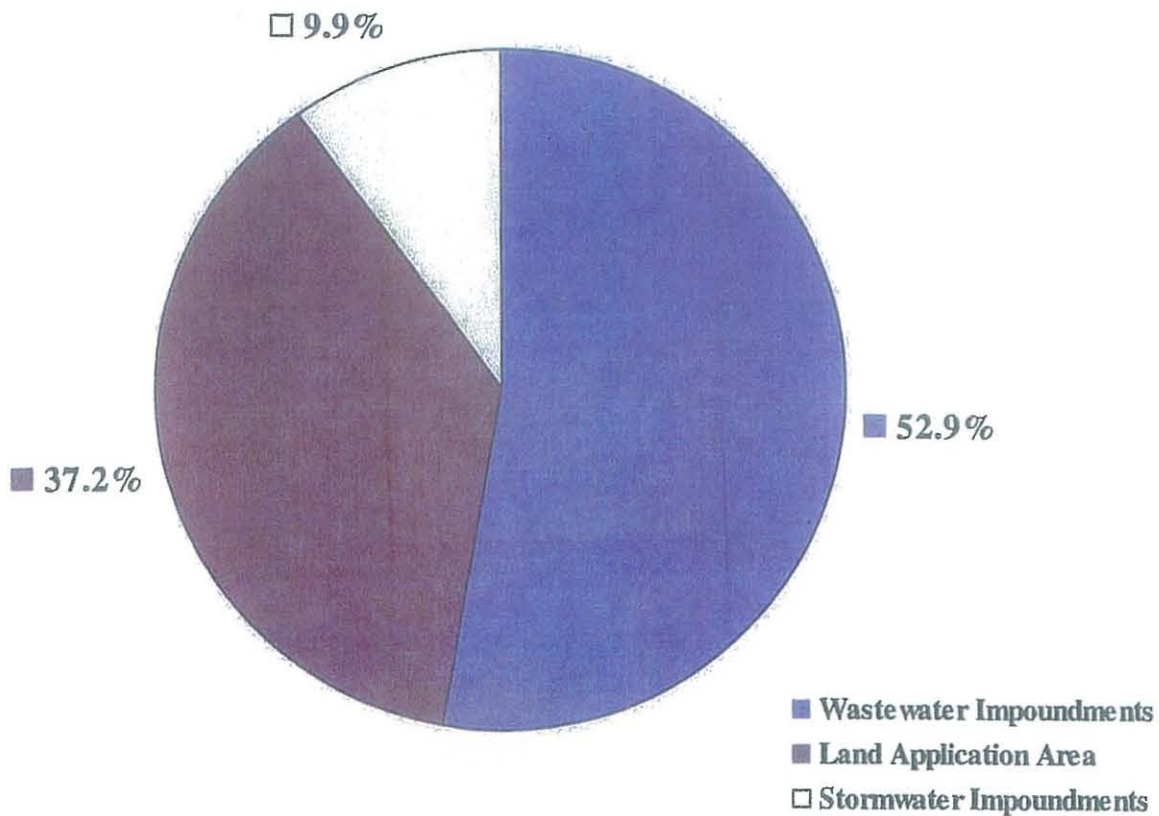
Figure 1: Historical Nitrate-Nitrogen Contamination at Dairy Facilities

# Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

## Sources of Historical Nitrate-Nitrogen Contamination at Dairy Facilities

Figure 2 below (summarized from the data in Table 2) shows that of the 121 dairy facilities that have historically had nitrate-nitrogen contamination in ground water, the single highest concentration ever reported at each dairy facility is associated with the following sources.

- 52.9 % (64 facilities) have had the single highest nitrate-nitrogen contamination ever reported associated with wastewater impoundments and combination wastewater/stormwater impoundments.
- 37.2 % (45 facilities) have had the single highest nitrate-nitrogen contamination ever reported associated with the land application area.
- 9.9 % (12 facilities) have had the single highest nitrate-nitrogen contamination ever reported associated with stormwater impoundments.



**Figure 2:** Sources of Historical Nitrate-Nitrogen Contamination at Dairy Facilities

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 1: Single highest nitrate-nitrogen concentration in ground water ever reported at each dairy facility and associated source**

Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
683	Top Line Dairy	1990	Active	Eddy	Artesia	550,000	18	storage impoundment & land apply	Yes	330	2300	10000	ND	MW-5	26-Jul-07	land application field	27
585	McCatharn Dairy	1950's	Active	Bernalillo	Albuquerque	4,000	65	evaporation impoundment only	Yes	262	data not provided	data not provided	data not provided	MW-1	17-Mar-98	wastewater impoundment	N/A
692	Del Oro Dairy	1990	Active	Doña Ana	Anthony	60,000	55-80	evaporation impoundment only	Yes	245	560	3461	3	DO-3	16-Dec-03	land application field	1.8
164	Southern Skies Dairy	1981	Active	Chaves	Roswell	42,000	22	storage impoundment & land apply	Yes	235	207	3450	0.3	MW-3	5-May-97	stormwater impoundment	32.8
170	Sun Valley Dairy LLC	~1981	Active	Doña Ana	Berino	35,000	37-80	evaporation impoundment only	Yes	225	880	4640	1.5	MW-1	16-Jun-00	wastewater impoundment	data not provided
227	Queso Grande Dairy	1982	Active	Chaves	Roswell	100,000	40	storage impoundment & land apply	Yes	220	N/A	N/A	1.52	MW-10	28-Mar-01	land application field	data not provided
70	Mountain View Dairy	1980	Active	Doña Ana	Mesquite	60,000	32-58	storage impoundment & land apply	Yes	195	N/A	N/A	N/A	BR-3	19-Sep-89	land application field	data not provided
74	Buena Vista 2	1979	Active	Doña Ana	Mesquite	55,000	13-32	storage impoundment & land apply	Yes	194.5	1610	4705	0.28	MW-2	11-Sep-04	land application field	0.1
42	Dominguez Farms II & III	1978	Active	Doña Ana	Mesquite	60,000	40	evaporation impoundment only	Yes	190	1200	4900	N/A	BJZ-9	8-Mar-00	wastewater impoundment	52
624	Dominguez Dairy	1990	Active	Doña Ana	Mesquite	85,000	9	storage impoundment & land apply	Yes	186.5	1195	data not provided	0.6	MW-2 (DM2)	28-Dec-91	land application field	not installed
299	Blackwater Draw Dairy	before 1983	Inactive	Roosevelt	Portales	25,000	115	storage impoundment & land apply	Yes	184	125	4455	0.6	MW-2	8-Jul-01	stormwater impoundment	N/A
677	Cheyenne Dairy I and III	1991	Active	Chaves	Dexter	180,000	50-100	storage impoundment & land apply	Yes	182.5	310	3740	0.3	MW-2	23-Oct-05	land application field	2.7
257	Sunset Dairy	1983	Active	Doña Ana	Vado	45,000	21-26	storage impoundment & land apply	Yes	181	1120	4952	0.8	257-1	5-Jul-04	wastewater impoundment	4.1
126	Del Norte Dairy	1980	Active	Doña Ana	Mesquite	24,000	15-29	storage impoundment & land apply	Yes	177	104.5	1253	2.5	MW-3	31-May-91	wastewater impoundment	0.55
86	Buena Vista Dairy	1979	Inactive	Doña Ana	Mesquite	60,000	25-45	storage impoundment & land apply	Yes	164	N/A	N/A	N/A	70/86/340-1	19-Sep-89	land application field	6.2
765	I&M Dairy	1991	Inactive	Eddy	Artesia	90,000	37	storage impoundment & land apply	Yes	160	220	4300	2.2	MW-3	5-Jul-06	land application field	14

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 1:** Single highest nitrate-nitrogen concentration in ground water ever reported at each dairy facility and associated source

Discharge Permit No. (DF#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
340	Bright Star Dairy	1987	Active	Doña Ana	Mesquite	60,000	36-47	storage impoundment & land apply	Yes	159	864	3780	0.14	MW-2	3-Sep-01	wastewater impoundment	61.5
487	Baca Linda Dairy	1987	Inactive	Chaves	Roswell	56,000	47	storage impoundment & land apply	Yes	150	910	5000	ND	MW-3A	20-Nov-06	stormwater impoundment	24
1203	Beaty Dairy	mid 1940's	Active	Chaves	Artesia	14,000	41	storage impoundment & land apply	Yes	148	660	7195	5	MW-2	10-Aug-07	wastewater impoundment	5.6
343	Tom Visser Dairy	1984	Active	Chaves	Roswell	60,000	10	storage impoundment & land apply	Yes	146.7	1020	6290	0.6	East MW	19-Jul-07	land application field	27
259	RockView Dairy	1983	Active	Lea	Hobbs	27,500	90	storage impoundment & land apply	Yes	136.2	375	18.05	0.8	MW-7R	8-Jul-09	wastewater impoundment	3.1
764	Arroyo Dairy	1993	Active	Chaves	Roswell	80,000	17-35	storage impoundment & land apply	Yes	134.3	900	5140	0.7	MW-1A	4-Dec-05	land application field	60.4
791	3-V Dairy	1992	Active	Chaves	Roswell	120,000	10	storage impoundment & land apply	Yes	130	240	3900	ND	MW-4	21-Apr-09	land application field	N/A
833	Big Sky/Desertland Dairy	1992	Active	Doña Ana	Mesquite	80,000	32-60	storage impoundment & land apply	Yes	129.4	935	2800	50.8	833-08	21-Jun-08	stormwater impoundment	16.4
533	Dandee Dairy	1988	Active	Chaves	Dexter	27,000	24-90	storage impoundment & land apply	Yes	127	28.3	data not provided	2.7	MW-2	2-Aug-94	stormwater impoundment	1.89
898	Bonestroo Dairy LLC	1993	Active	Roosevelt	Portales	43,000	60	evaporation impoundment only	Yes	118.1	115	1460	0.7	MW-4	2-Aug-05	combination ww/sw impoundment	5.8
207	Nature's Dairy Inc	1982	Active	Chaves	Roswell	84,000	14-17	storage impoundment & land apply	Yes	110	2000	7500	ND	MW-4	25-Mar-09	land application field	data not provided
228	New Horizon Dairy	1982	Inactive	Chaves	Roswell	120,000	29	storage impoundment & land apply	Yes	110	190	4775	0.7	MW-3	2-Jun-01	land application field	data not provided
554	Break-Away Dairy	1988	Active	Chaves	Roswell	35,000	13	storage impoundment & land apply	Yes	110	880	3800	ND	MW-3	20-Aug-08	land application field	7.1
893	Los Lunas Correctional Center Dairy	pre 1992	Inactive	Valencia	Los Lunas	6,300	36	storage impoundment & land apply	Yes	110	165	1800	2.49	MW-3	23-Jul-02	wastewater impoundment	74
1141	Enchantment Dairy	1997	Active	Chaves	Lake Arthur	128,000	10	storage impoundment & land apply	Yes	110	830	5800	ND	MW-5	11-Dec-07	land application field	2.4
163	Pirtle Farms Dairy	1981	Active	Chaves	Roswell	35,000	16	storage impoundment & land apply	Yes	108	365	3285	0.6	MW-4	26-Dec-02	land application field	22.8

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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
1181	Rasband Dairy	pre-1996	Active	Valencia	Belen	1,064	35	storage impoundment & land apply	Yes	107.6	46	794	data not provided	MW-2	7-Apr-03	wastewater impoundment	5.36
718	De Groot Dairy	1991	Active	Chaves	Roswell	120,000	15-26	storage impoundment & land apply	Yes	99.6	2500	8455	1	MW-3	4-Dec-05	land application field	16.1
208	Oasis Dairy	1982	Inactive	Chaves	Roswell	64,000	28	storage impoundment & land apply	Yes	98.7	600	5190	10.7	MW-3	28-Apr-09	stormwater impoundment	11.8
177	Gonzalez Dairy	1981	Active	Doña Ana	Mesquite	49,000	14	storage impoundment & land apply	Yes	96.9	1440	5100	3.36	MW-2	1-Dec-06	land application field	30.6
762	High Lonesome Dairy	1991	Active	Lea	Hobbs	60,000	99	storage impoundment & land apply	Yes	96.4	290	1940	16.8	MW-2,S	19-Apr-00	combination ww/sw impoundment	N/A
1025	Landmark Dairy (Doldersum Dairy)	1995	Active	Lea	Lovington	40,000	60	storage impoundment & land apply	Yes	89.2	210	1435	1.8	MW-1	8-Jul-09	wastewater impoundment	3.8
167	River Valley Dairy	~1981	Active	Doña Ana	Mesquite	35,000	11	storage impoundment & land apply	Yes	85.9	980	4245	1	MW-5	8-Mar-03	land application field	38
738	El Visto Dairy 2	1991	Active	Chaves	Dexter	55,000	97	storage impoundment & land apply	Yes	74	230	3400	ND	MW-3	19-Nov-06	wastewater impoundment	data not provided
913	Creekside Dairy	1993	Active	Eddy	Lake Arthur	56,000	29-75	storage impoundment & land apply	Yes	73.2	160	3920	0.9	MW-3	29-Oct-04	land application field	17.9
190	Othart Dairy	1982	Active	Socorro	Veguita	8,000	66	evaporation impoundment only	Yes	71	77	1300	ND	MW	12-May-04	wastewater impoundment	N/A
951	Brand West Dairy	1995	Inactive	Lea	Lovington	99,990	82	storage impoundment & land apply	Yes	67.5	150	1110	ND	MW-3	6-Apr-06	land application field	N/A
1208	Tallmon Dairy	1954	Active	Doña Ana	Santa Teresa	16,945	9	storage impoundment & land apply	Yes	67.5	560	3691	1	MW-6	9-Sep-07	wastewater impoundment	0.1
952	Rockhill Dairy	1998	Active	Chaves	Dexter	80,000	105	storage impoundment & land apply	Yes	67	500	3200	ND	MW-2	12-May-08	wastewater impoundment	9.1
290	Tres Hermanos Dairy LLC	1983	Active	Socorro	Veguita	5,000	70	evaporation impoundment only	Yes	65	34	698	ND	MW-1	29-Jan-93	wastewater impoundment	data not provided
606	Dexter Dairy	1989	Active	Chaves	Dexter	40,000	95-110	storage impoundment & land apply	Yes	64	200	2700	ND	MW-1	25-Aug-08	land application field	8.6
595	Back Nine Dairy	before 1988	Active	Roosevelt	Portales	10,000	67	storage impoundment & land apply	Yes	63.7	340	1980	0.8	MW-6	16-Apr-09	stormwater impoundment	data not provided

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904	Wild West Farms	1993	Active	Chaves	Roswell	125,000	52	storage impoundment & land apply	Yes	62	390	3600	ND	MW-1A	16-Sep-04	wastewater impoundment	data not provided
162	Yorktown Dairy	~1981	Active	Chaves	Roswell	21,000	8	storage impoundment & land apply	Yes	61.2	305	3735	0.5	MW-2	6-Apr-03	combination ww/sw impoundment	not installed
699	Ruch Dairy	est.1991	Inactive	Lea	Hobbs	40,000	60	storage impoundment & land apply	Yes	60.4	190	1435	1.7	MW-1	12-Jul-07	wastewater impoundment	0.18
742	Breedyk Dairy	1991	Active	Chaves	Dexter	92,000	51	storage impoundment & land apply	Yes	58	860	4400	ND	MW-2	29-Oct-07	wastewater impoundment	8.1
1195	Elmira Dairy	1998	Active	Bernalillo	Albuquerque	9,999	108-126	evaporation impoundment only	Yes	57.2	281	4470	0.5	MW-4	4-Apr-07	wastewater impoundment	data not provided
646	Rio Vista Dairy	1989	Inactive	Chaves	Roswell	60,000	20-30	storage impoundment & land apply	Yes	54.4	2490	7220	2.7	MW-East	25-Jun-91	wastewater impoundment	N/A
1287	Lajolla Dairy	2000	Active	Roosevelt	Portales	9,750	65	storage impoundment & land apply	Yes	53.4	315	1875	1.6	MW-2	5-Oct-07	wastewater impoundment	4.7
1032	Bosque Dairy	1993	Active	Socorro	Bosque	3,000	48	evaporation impoundment only	Yes	50	150	1800	ND	MW-3	22-Jan-09	wastewater impoundment	N/A
734	Cottonwood Springs Dairy I	~1991	Active	Eddy	Lake Arthur	84,000	25	storage impoundment & land apply	Yes	49.9	490	4505	6.8	MW-3	12-Jan-02	stormwater impoundment	37.8
635	Woodcrest Dairy	1989	Active	Chaves	Roswell	100,000	8-15	storage impoundment & land apply	Yes	49.3	1000	5815	1.4	MW-3	23-Jul-05	stormwater impoundment	4.1
1313	Desert Star Dairy	2001	Active	Roosevelt	Texico	40,000	222	storage impoundment & land apply	Yes	49	180	1510	ND	MW-4	23-Jul-09	wastewater impoundment	N/A
921	Flecha Dairy	1994	Active	Eddy	Artesia	115,000	35	storage impoundment & land apply	Yes	48	76	2900	ND	MW-2A	3-Dec-08	combination ww/sw impoundment	23
776	Southwind Dairy	1991	Active	Chaves	Hagerman	96,000	165-210	storage impoundment & land apply	Yes	47	180	1660	ND	MW-1AA	13-Jul-09	wastewater impoundment	2.5
963	Red Roof Dairy	1993	Active	Roosevelt	Portales	37,500	114-142	storage impoundment & land apply	Yes	46.1	60	610	0.3	MW-6	6-Feb-09	land application field	1.9
1003	Three Amigos Dairy	1994	Active	Chaves	Dexter	120,000	45	storage impoundment & land apply	Yes	46	N/A	N/A	1.37	MW-1	21-Mar-01	wastewater impoundment	data not provided
934	South Slope Dairy	1993	Active	Curry	Clovis	225,000	344	storage impoundment & land apply	Yes	45.6	345	1475	0.6	MW-2	18-Jul-09	combination ww/sw impoundment	N/A

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

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707	Vaz Dairy	1991	Active	Chaves	Roswell	100,000	15-25	storage impoundment & land apply	Yes	45	5700	12000	ND	MW-4	24-Jun-06	land application field	32
461	Beestra Family Dairy	Prior 1984	Active	Lea	Hobbs	40,000	65	storage impoundment & land apply	Yes	44.3	data not provided	718	11.18	Monitor Well	9-Aug-91	wastewater impoundment	N/A
1286	Greenfield Park Dairy	2000	Active	Roosevelt	Portales	40,000	145	storage impoundment & land apply	Yes	42.1	39.6	366	ND	MW-3	28-Feb-08	land application field	2.18
706	Rajen Dairy	1992	Active	Curry	Clovis	200,000	291	storage impoundment & land apply	Yes	42	100	930	ND	JAR #1	23-Sep-92	stormwater impoundment	7
804	Sunshine Dairy-Dexter	1978	Active	Chaves	Roswell	24,000	30	storage impoundment & land apply	Yes	41	720	3590	0.4	MW-2	30-Sep-03	wastewater impoundment	N/A
1233	Mickey's Dairy	1997	Active	Bernalillo	Albuquerque	3,000	12	evaporation impoundment only	Yes	40.2	110	1180	0.9	MW-2	5-Jul-05	wastewater impoundment	5.1
1199	Falla Dairy	1998	Active	Curry	Clovis	160,000	410	storage impoundment & land apply	Yes	39.8	111	847	ND	MW-1	21-Jun-07	wastewater impoundment	2.02
1136	Heritage Dairy	1997	Active	Curry	Clovis	100,000	230	storage impoundment & land apply	Yes	36.6	155	890	1.3	MW-3	26-Jun-06	combination ww/sw impoundment	not installed
1245	4-Way Dairy	2000	Active	Roosevelt	Portales	150,000	90	storage impoundment & land apply	Yes	34.8	30	415	ND	MW-5	5-Mar-09	land application field	21.5
633	Greenfield Dairy	~1989	Active	Chaves	Dexter	80,000	106	storage impoundment & land apply	Yes	34.5	275	1945	0.7	MW-2	30-Nov-05	wastewater impoundment	not installed
1331	Butterfield Dairy Farm	2001	Active	Luna	Deming	60,000	90	storage impoundment & land apply	Yes	34	48	920	ND	MW-3	31-Jan-08	land application field	23
480	Double Aught Dairy	1987	Active	Chaves	Dexter	70,000	75	storage impoundment & land apply	Yes	33.4	420	3550	0.4	MW-3	18-Mar-01	wastewater impoundment	data not provided
689	P-2 Dairy	1990	Active	Chaves	Dexter	90,000	35-75	storage impoundment & land apply	Yes	31.7	940	5020	ND	MW-3	19-Aug-05	land application field	3.2
568	Vanderploeg Dairy	1988	Active	Bernalillo	Albuquerque	2,000	70	evaporation impoundment only	Yes	31	86	870	ND	MW-West	6-May-09	wastewater impoundment	N/A
1246	Hide-A-Way Dairy	2000	Active	Roosevelt	Clovis	61,250	250	storage impoundment & land apply	Yes	28	89.4	487	ND	MW-3	21-Aug-07	land application field	3.04
737	Parkland Dairy	1992	Active	Roosevelt	Portales	15,000	80	storage impoundment & land apply	Yes	27.8	290	1865	0.4	MW-2	14-Nov-05	wastewater impoundment	N/A



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932	Midway Dairy	1993	Active	Curry	Portales	42,074	195	storage impoundment & land apply	Yes	27	30	518	ND	MW-1	14-May-09	wastewater impoundment	1.7
1135	Bos Dairy	btw 1997 and 2000	Active	Lea	Lovington	120,000	87	storage impoundment & land apply	Yes	26.9	185	1120	1.6	MW-2	2-Jan-08	wastewater impoundment	4.8
537	Van Dam Dairy	1987	Active	Roosevelt	Portales	35,463	90	storage impoundment & land apply	Yes	26.1	373	2380	0.5	MW-2	21-Aug-07	wastewater impoundment	8.97
1200	Milky Way Dairy	1999	Active	Chaves	Roswell	8,400	25	storage impoundment & land apply	Yes	26	1500	5500	ND	MW-1	23-Oct-06	wastewater impoundment	16
1312	Milk Flow Dairy	2000/2001	Inactive	Roosevelt	Portales	40,000	120	storage impoundment & land apply	Yes	25.4	95	580	ND	MW-3	13-May-08	land application field	data not provided
796	Cornerstone Dairy	1991	Active	Eddy	Artesia	90,000	46	storage impoundment & land apply	Yes	24	98	3800	ND	MW-7	23-Oct-07	land application field	N/A
384	Philmar Dairy	1985	Active	Roosevelt	Portales	40,000	80-103	storage impoundment & land apply	Yes	23.4	310	2045	0.4	MW-2	4-Jan-06	wastewater impoundment	13.9
727	Shawnee Dairy	1991	Active	Chaves	Dexter	81,000	43	storage impoundment & land apply	Yes	23	140	2200	ND	MW-3	15-Oct-09	land application field	ND
1250	Sky County Farms	2005	Active	Roosevelt	Portales	90,000	128	storage impoundment & land apply	Yes	23	77	704	ND	MW-3	30-Jul-07	land application field	13
909	Tee Vee Dairy	1993	Active	Lea	Hobbs	48,000	76	storage impoundment & land apply	Yes	22.6	100	725	0.8	MW-4	12-Jul-07	wastewater impoundment	3.1
797	Cheyenne Dairy 2	1992	Active	Chaves	Roswell	80,000	110-117	storage impoundment & land apply	Yes	22.5	125	1720	ND	MW-2	22-Jul-05	stormwater impoundment	0.37
703	Desperado Dairy	1990	Active	Curry	Clovis	48,000	350	storage impoundment & land apply	Yes	21.9	125	770	ND	MW-1	6-Jun-00	combination ww/sw impoundment	data not provided
1131	Par 5 Dairy and Select Milk	1997	Active	Chaves	Dexter	410,000	40-52	storage impoundment & land apply	Yes	21.3	440	3960	0.4	MW-3	22-Jul-05	stormwater impoundment	5.2
1391	Nuit Dairy	2002	Active	Luna	Deming	20,000	65-135	storage impoundment & land apply	Yes	21.1	138	1030	0.3	MW-1	23-Apr-03	wastewater impoundment	2.24
717	Epicenter Dairy	1993	Inactive	Chaves	Hagerman	48,000	145	storage impoundment & land apply	Yes	21	400	3000	ND	MW-3A	29-Feb-08	land application field	4.7
1299	Cooper-Legacy Dairy	2000	Active	Roosevelt	Portales	65,000	271	storage impoundment & land apply	Yes	20	26	476	ND	MW-2	20-Dec-07	wastewater impoundment	15

### Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 1:** Single highest nitrate-nitrogen concentration in ground water ever reported at each dairy facility and associated source

Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
667	H and R Westra Dairy	1990	Active	Roosevelt	Portales	20,000	45	storage impoundment & land apply	Yes	19.9	15	300	ND	MW-4	4-May-06	land application field	2
1157	High Plains Dairy	1997	Inactive	Roosevelt	Portales	60,000	108	storage impoundment & land apply	Yes	19.6	50	790	0.2	MW-2A	10-Mar-09	combination ww/sw impoundment	3.1
546	Caballo Dairy Inc	1931	Active	Sierra	Arrey	72,000	10	storage impoundment & land apply	Yes	18	190	1400	2.2	MW-1	4-Aug-06	wastewater impoundment	data not provided
1034	Edeal Dairy	1995	Active	Valencia	Los Lunas	35,000	6	storage impoundment & land apply	Yes	18	84	726	0.62	MW-4	12-Sep-97	land application field	N/A
753	Brouwer Dairy	1991	Active	Roosevelt	Portales	24,000	87	storage impoundment & land apply	Yes	17.4	140	945	0.3	MW-2	4-Jan-06	wastewater impoundment	8.5
1001	James Idsinga & Son Dairy	1995	Active	Curry	Portales	32,000	225	storage impoundment & land apply	Yes	16.6	10	435	ND	MW-A	29-Nov-00	land application field	0.9
1176	Jarratt Dairy	1995	Active	Valencia	Los Lunas	2,500	5	storage impoundment & land apply	Yes	16.6	36.2	854	2	MW-2	21-Feb-07	wastewater impoundment	12.1
772	Oihart Dairy 2	1991	Active	Socorro	Veguila	7,500	70	evaporation impoundment only	Yes	16.5	data not provided	data not provided	0.2	MW-N	15-Feb-06	wastewater impoundment	N/A
1350	Loma Parda Dairy	2003	Active	Doña Ana	Garfield	26,000	40	storage impoundment & land apply	Yes	16.44	248.4	1922	2.4	MW-1	19-Apr-05	wastewater impoundment	N/A
1154	Salridge Dairy	1997	Active	Roosevelt	Portales	30,000	72	storage impoundment & land apply	Yes	16.4	940	3070	2.3	MW-2	24-Jun-05	wastewater impoundment	5.8
1277	El Dorado Dairy	2000	Active	Curry	Clovis	95,000	317	storage impoundment & land apply	Yes	15.5	85	560	0.2	MW-2	7-Apr-09	wastewater impoundment	2.5
1004	Willard Dairy	1998	Active	Torrance	Willard	80,000	100	storage impoundment & land apply	Yes	15.3	300	1435	1	MW-1B	17-Jul-09	wastewater impoundment	2.5
1067	Stepping Stone Dairy	1996	Inactive	Roosevelt	Portales	7,000	75	evaporation impoundment only	Yes	14.9	285	3625	ND	MW-1	22-Mar-07	land application field	N/A
826	Anderson Dairy 2	1992	Active	Roosevelt	Portales	4,500	86	evaporation impoundment only	Yes	13.8	140	1005	ND	MW-4	2-Aug-05	wastewater impoundment	12
666	Western Star Dairy	1990	Active	Roosevelt	Portales	20,000	80-90	storage impoundment & land apply	Yes	13.1	230	1570	ND	MW-5	5-Oct-07	wastewater impoundment	Not installed
1559	Rocky Top Dairy	2006	Active	Lea	Lovington	60,000	77	storage impoundment & land apply	Yes	13	20	315	ND	MW-3	28-Nov-08	land application field	N/A

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

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Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl <sup>-</sup> mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
1332	Opportunity Dairy	2004	Active	Roosevelt	Clovis	65,000	271	storage impoundment & land apply	Yes	12.9	45	695	0.2	MW-3	19-Jun-07	land application field	1.6
514	Amistad Dairy	1988	Active	Roosevelt	Portales	6,000	90	evaporation impoundment only	Yes	12.8	190	1200	0.3	MW-2	23-Jun-09	land application field	7.2
911	Chalk Hill Dairy	before 1992	Inactive	Roosevelt	Portales	1,250	90	direct land apply	Yes	11.7	345	1815	ND	MW-3	23-Sep-05	land application field	8.4
1288	Sunwest Dairy	2001	Active	Curry	Clovis	60,000	300	storage impoundment & land apply	Yes	11.7	136	595	ND	MW-3	5-Dec-03	land application field	7
346	Abarea Dairy	1984	Inactive	Roosevelt	Portales	2,500	70	storage impoundment & land apply	Yes	11.5	100	855	0.4	MW-1	21-Feb-03	wastewater impoundment	10.7
1377	Grande Vida Dairy	2006	Active	Roosevelt	Portales	49,500	191	storage impoundment & land apply	Yes	11.5	20	375	0.2	MW-2	26-Feb-09	combination ww/sw impoundment	7.7
195	Heraa Dairy	1982	Inactive	Socorro	Vegueta	3,000	32	evaporation impoundment only	Yes	11.4	344	1680	73.7	MW-1	20-Dec-05	wastewater impoundment	N/A
926	Carter's Milk Factory	1992	Inactive	Roosevelt	Portales	64,000	110	storage impoundment & land apply	Yes	10.7	620	715	0.2	MW-4	20-Jan-06	land application field	3.6
1423	Sandercrest Dairy	2006	Active	Curry	Portales	65,000	108	storage impoundment & land apply	Yes	10.5	42	400	0.3	MW-2	10-Mar-09	combination ww/sw impoundment	N/A
390	Bright Horizon Dairy	1985	Active	Roosevelt	Causey	6,000	150	direct land apply	no MWs								
888	Woods Dairy	1992	Inactive	Lea	Lovington	5,000	65	direct land apply	no MWs								
1091	Native Pastures Dairy	1996	Active	Curry	Clovis	2,000	230	direct land apply	no MWs								
1323	Brand West Dairy 2	2007	Active	Lea	Lovington	99,900	65-75	storage impoundment & land apply	no MWs								
1379	Cross Country Dairy	2005	Active	Curry	Clovis	75,000	390	storage impoundment & land apply	no MWs								
1578	Hide A Way Dairy 2	2008	Active	Curry	Clovis	61,250	250	storage impoundment & land apply	no MWs								
1251	Crosswinds Dairy	1999	Active	Roosevelt	Portales	50,000	160	storage impoundment & land apply	No	28.9	46	545	ND	MW-2	29-May-03	wastewater impoundment	42.4
987	Mitchell Dairy	1995	Active	Roosevelt	Portales	15,000	98-133	storage impoundment & land apply	No	19.2	45	460	0.2	MW-2	5-Mar-09	wastewater impoundment	28.1

### Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	
880	W-Diamond Dairy	1992	Active	Roosevelt	Portales	49,999	75	evaporation impoundment only	No	10	260	1850	ND	MW-6	13-Jul-09	combination ww/sw impoundment	5.8
923	Faria Dairy	in or before 1984	Inactive	Lea	Lovington	49,900	77	storage impoundment & land apply	No	9.6	155	720	0.5	MW-3	18-Feb-02	wastewater impoundment	0.9
851	Highland Dairy	1994	Active	Curry	Clovis	67,500	250	storage impoundment & land apply	No	8.5	85	640	0.5	MW-2	6-Feb-09	land application field	N/A
865	Pareo Dairy	prior to 1984	Active	Socorro	Veguita	11,000	30	evaporation impoundment only	No	8.2	56	970	ND	MW-4	14-Mar-07	wastewater impoundment	0.76
1315	J-Lu Dairy	2002	Active	Roosevelt	Portales	85,000	118	storage impoundment & land apply	No	7.8	30	425	ND	MW-2	23-Feb-09	wastewater impoundment	0.66
1346	Ridgecrest Dairy	2002	Active	Curry	Texico	87,500	375	storage impoundment & land apply	No	7.5	125	565	ND	MW-1	11-Feb-06	land application field	7.3
1413	Stark Dairy	2003	Active	Curry	Clovis	109,250	400	storage impoundment & land apply	No	7.46	7	281	ND	MW-3	8-Dec-06	land application field	1.51
1455	Route 77 Dairy	2007	Active	Curry	Clovis	90,000	314	storage impoundment & land apply	No	7.4	30	405	0.6	MW-3	20-Aug-09	land application field	11.6
1257	Mariposa Farms Dairy	1999	Inactive	Roosevelt	Causey	30,000	110	direct land apply	No	6.7	230	1195	ND	MW-2	9-Oct-03	land application field	not installed
1026	Mid Frisian Dairy	2000	Active	Curry	Clovis	40,000	335	storage impoundment & land apply	No	6.6	48	435	ND	MW-2	19-May-04	stormwater impoundment	2.2
1531	Arch Diamond	2007	Active	Roosevelt	Portales	65,000	75	storage impoundment & land apply	No	6.6	40	480	0.5	MW-3	24-Sep-09	land application field	5
956	Day Star Dairy	1994	Active	Curry	Clovis	74,000	280	storage impoundment & land apply	No	5.15	286	990	0.8	MW-2	9-Apr-96	land application field	1.07
1061	Vergeer Dairy	1995	Inactive	Valencia	Los Lunas	2,600	5	evaporation impoundment only	No	5.02	80.5	841	1	MW-South	24-Oct-01	land application field	5.02
1553	Arrowhead Dairy	2007	Active	Curry	Clovis	70,000	205-220	storage impoundment & land apply	No	4.9	110	600	1	MW-4	28-Jul-09	land application field	2.2
878	Rajen Dairy II	1993	Active	Curry	Clovis	72,000	310	storage impoundment & land apply	No	4.8	68	520	ND	MW-2	31-Mar-09	land application field	N/A
1320	Clover Knolls	2003	Active	Roosevelt	Texico	124,000	160	storage impoundment & land apply	No	4.4	7.6	270	ND	MW-1	13-Feb-08	combination ww/sw impoundment	N/A

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 1: Single highest nitrate-nitrogen concentration in ground water ever reported at each dairy facility and associated source**

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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
115	Jones Dairy, Inc.	1979	Active	Valencia	Veguita	18,000	116	evaporation impoundment only	No	4.1	8.44	N/A	ND	MW-C	4-Dec-00	combination ww/sw impoundment	2.09
1517	Sunridge Dairy	2008	Active	Roosevelt	Portales	75,000	360	storage impoundment & land apply	No	4.1	20	385	ND	MW-3	5-Mar-09	land application field	33
1477	HAW Farms	2005	Active	Socorro	Becker	7,000	360	evaporation impoundment only	No	4	15	680	ND	MW-2	10-Apr-07	combination ww/sw impoundment	1.2
988	Boyd Brothers Inc. Dairy	1996	Active	Lea	Lovington	3,000	93	direct land apply	No	3.8	50	500	0.2	Test	12-Aug-08	sump	4.3
1197	Rajen Dairy III	2000	Active	Curry	Clovis	160,000	260	storage impoundment & land apply	No	3.6	12	358	ND	MW-4	5-Jul-09	land application field	0.46
1268	Dixieland	2001	Inactive	Lea	Lovington	45,000	70	storage impoundment & land apply	No	3.6	70	735	ND	MW-2	11-Jul-07	wastewater impoundment	2.3
1194	Handley Dairy	early 1970's	Active	Socorro	Veguita	6,150	12	storage impoundment & land apply	No	3.4	25	430	ND	Lagoon Well	21-Jul-08	wastewater impoundment	2.4
1475	Dutch Valley Farms	2006	Active	Curry	Clovis	99,000	428	storage impoundment & land apply	No	3.3	35	340	ND	MW-2	30-Jul-09	wastewater impoundment	3.3
1265	Turner Dairy	1999	Active	Dofia Ana	Hatch	15,000	250	evaporation impoundment only	No	3.2	17.3	607	4.1	MW-1	19-Jan-00	wastewater impoundment	N/A
1168	Goff Dairy	1998	Active	Lea	Lovington	160,000	60	storage impoundment & land apply	No	3	40	390	ND	MW-2A	16-May-08	wastewater impoundment	3.9
674	SAS Dairy	1992	Active	Curry	Clovis	24,000	190	storage impoundment & land apply	No	2.9	72	630	0.3	MW-A (MW-1)	29-Mar-03	wastewater impoundment	3.5
342	Las Uvas Valley Dairy #s 1-2-3-4-5	1980	Active	Dofia Ana	Hatch	103,000	60	storage impoundment & land apply	No	2.8	57	450	ND	MW-T1	27-Oct-07	wastewater impoundment	N/A
885	Jersey Gold Dairy	1986	Inactive	Valencia	Belen	2,000	40	evaporation impoundment only	No	2.7	31	300	0.63	East Well	2-Jan-03	wastewater impoundment	1.6
1321	Providence Dairy	2001	Active	Curry	Texico	105,00	300	storage impoundment & land apply	No	2.7	30	275	ND	MW-2	27-Jun-05	wastewater impoundment	2.1
1163	North Point Dairy	1999	Active	Curry	Clovis	180,000	380	storage impoundment & land apply	No	2.6	17	260	0.4	MW-3	26-Jan-09	wastewater impoundment	1.8
1439	Secondwind Dairy	2004	Active	Chaves	Hagerman	15,000	167	storage impoundment & land apply	No	2.4	13	630	ND	MW-1	8-Oct-07	wastewater impoundment	N/A

### Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
1111	Do-Rene Dairy 2	~1997	Active	Curry	Clovis	120,000	315	storage impoundment & land apply	No	2.3	42	487	ND	MW-2	5-Nov-09	combination ww/sw impoundment	6.6
1022	Southern Draw Dairy	1983 or earlier	Active	Curry	Clovis	45,000	375	storage impoundment & land apply	No	1.84	13.9	262	ND	South Well	6-May-08	land application field	2.06
1302	Bos Dairy - North	2001	Active	Lea	Lovington	65,000	70	storage impoundment & land apply	No	1.8	50	410	0.3	MW-2	2-Jan-08	wastewater impoundment	11.1
967	Las Eñas Valley Dairy #6	1993	Active	Dona Ana	Hatch	44,000	170	storage impoundment & land apply	No	1.2	112.8	1027	0.6	MW-3	15-Apr-09	wastewater impoundment	N/A
380	Barrera Dairy 1	1986	Active	Sierra	Arrey	25,650	60	evaporation impoundment only	No	1.06	13.3	358	0.1	B1 MW-1	9-May-03	wastewater impoundment	1.24
563	A&M Dairy	1988	Active	Socorro	Veguita	4,200	65	evaporation impoundment only	No	0.65	11	240	ND	MW-2	26-May-09	wastewater impoundment	0.84
1294	R & R Ranch Dairy	2001	Active	Socorro	Veguita	160,000	75	evaporation impoundment only	No	0.64	8.7	230	0.56	MW-2	23-Jun-04	wastewater impoundment	0.25

## Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 2: Sources of highest historical nitrate-nitrogen contamination at dairy facilities**

Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
585	McCatham Dairy	1950's	Active	Bernalillo	Albuquerque	4,000	65	evaporation impoundment only	Yes	262	data not provided	data not provided	data not provided	MW-1	17-Mar-98	wastewater impoundment	N/A
170	Sun Valley Dairy LLC	1981	Active	Doña Ana	Berino	35,000	37-80	evaporation impoundment only	Yes	225	880	4640	1.5	MW-1	16-Jun-00	wastewater impoundment	data not provided
42	Dominguez Farms II & III	1978	Active	Doña Ana	Mesquite	60,000	40	evaporation impoundment only	Yes	190	1200	4900	N/A	BJZ-9	8-Mar-00	wastewater impoundment	52
257	Sunset Dairy	1983	Active	Doña Ana	Vado	45,000	21-26	storage impoundment & land apply	Yes	181	1120	4952	0.8	257-1	5-Jul-04	wastewater impoundment	4.1
126	Del Norte Dairy	1980	Active	Doña Ana	Mesquite	24,000	15-29	storage impoundment & land apply	Yes	177	104.5	1253	2.5	MW-3	31-May-91	wastewater impoundment	0.55
340	Bright Star Dairy	1987	Active	Doña Ana	Mesquite	60,000	36-47	storage impoundment & land apply	Yes	159	864	3780	0.14	MW-2	3-Sep-01	wastewater impoundment	61.5
1203	Beaty Dairy	mid 1940's	Active	Chaves	Artesia	14,000	41	storage impoundment & land apply	Yes	148	660	7195	5	MW-2	10-Aug-07	wastewater impoundment	5.6
259	RockView Dairy	1983	Active	Lea	Hobbs	27,500	90	storage impoundment & land apply	Yes	136.2	375	18.05	0.8	MW-7R	8-Jul-09	wastewater impoundment	3.1
893	Los Lunas Correctional Center Dairy	pre 1992	Inactive	Valencia	Los Lunas	6,300	36	storage impoundment & land apply	Yes	110	165	1800	2.49	MW-3	23-Jul-02	wastewater impoundment	74
1181	Rasband Dairy	pre-1996	Active	Valencia	Belen	1,064	35	storage impoundment & land apply	Yes	107.6	46	794	data not provided	MW-2	7-Apr-03	wastewater impoundment	5.36
1025	Landmark Dairy (Doldersum Dairy)	1995	Active	Lea	Lovington	40,000	60	storage impoundment & land apply	Yes	89.2	210	1435	1.8	MW-1	8-Jul-09	wastewater impoundment	3.8
738	El Visto Dairy 2	1991	Active	Chaves	Dexter	55,000	97	storage impoundment & land apply	Yes	74	230	3400	ND	MW-3	19-Nov-06	wastewater impoundment	data not provided
190	Othart Dairy	1982	Active	Socorro	Veguita	8,000	66	evaporation impoundment only	Yes	71	77	1300	ND	MW	12-May-04	wastewater impoundment	N/A
1208	Tallmon Dairy	1954	Active	Doña Ana	Santa Teresa	16,945	9	storage impoundment & land apply	Yes	67.5	560	3691	1	MW-6	9-Sep-07	wastewater impoundment	0.1
952	Rockhill Dairy	1998	Active	Chaves	Dexter	80,000	105	storage impoundment & land apply	Yes	67	500	3200	ND	MW-2	12-May-08	wastewater impoundment	9.1
290	Tres Hermanos Dairy LLC	1983	Active	Socorro	Veguita	5,000	70	evaporation impoundment only	Yes	65	34	698	ND	MW-1	29-Jan-93	wastewater impoundment	data not provided

### Historical Nitrate-Nitrogen Contamination in Ground Water at Dairy Facilities

**Table 2: Sources of highest historical nitrate-nitrogen contamination at dairy facilities**

Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
904	Wild West Farms	1993	Active	Chaves	Roswell	125,000	52	storage impoundment & land apply	Yes	62	390	3600	ND	MW-1A	16-Sep-04	wastewater impoundment	data not provided
699	Ruch Dairy	est. 1991	Inactive	Lea	Hobbs	40,000	60	storage impoundment & land apply	Yes	60.4	190	1435	1.7	MW-1	12-Jul-07	wastewater impoundment	0.18
742	Breedyk Dairy	1991	Active	Chaves	Dexter	92,000	51	storage impoundment & land apply	Yes	58	860	4400	ND	MW-2	29-Oct-07	wastewater impoundment	8.1
1195	Elmira Dairy	1998	Active	Bernalillo	Albuquerque	9,999	108-126	evaporation impoundment only	Yes	57.2	281	4470	0.5	MW-4	4-Apr-07	wastewater impoundment	data not provided
646	Rio Vista Dairy	1989	Inactive	Chaves	Roswell	60,000	20-30	storage impoundment & land apply	Yes	54.4	2490	7220	2.7	MW-East	25-Jun-91	wastewater impoundment	N/A
1287	Lajolla Dairy	2000	Active	Roosevelt	Portales	9,750	65	storage impoundment & land apply	Yes	53.4	315	1875	1.6	MW-2	5-Oct-07	wastewater impoundment	4.7
1032	Bosque Dairy	1993	Active	Socorro	Bosque	3,000	48	evaporation impoundment only	Yes	50	150	1800	ND	MW-3	22-Jan-09	wastewater impoundment	N/A
1313	Desert Star Dairy	2001	Active	Roosevelt	Texico	40,000	222	storage impoundment & land apply	Yes	49	180	1510	ND	MW-4	23-Jul-09	wastewater impoundment	N/A
776	Southwind Dairy	1991	Active	Chaves	Hagerman	96,000	165-210	storage impoundment & land apply	Yes	47	180	1660	ND	MW-1AA	13-Jul-09	wastewater impoundment	2.5
1003	Three Amigos Dairy	1994	Active	Chaves	Dexter	120,000	45	storage impoundment & land apply	Yes	46	N/A	N/A	1.37	MW-1	21-Mar-01	wastewater impoundment	data not provided
461	Beestra Family Dairy	Prior 1984	Active	Lea	Hobbs	40,000	65	storage impoundment & land apply	Yes	44.3	data not provided	718	11.18	Monitor Well	9-Aug-91	wastewater impoundment	N/A
804	Sunshine Dairy-Dexter	1978	Active	Chaves	Roswell	24,000	30	storage impoundment & land apply	Yes	41	720	3590	0.4	MW-2	30-Sep-03	wastewater impoundment	N/A
1233	Mickey's Dairy	1997	Active	Bernalillo	Albuquerque	3,000	12	evaporation impoundment only	Yes	40.2	110	1180	0.9	MW-2	5-Jul-05	wastewater impoundment	5.1
1199	Palla Dairy	1998	Active	Curry	Clovis	160,000	410	storage impoundment & land apply	Yes	39.8	111	847	ND	MW-1	21-Jun-07	wastewater impoundment	2.02
633	Greenfield Dairy	~1989	Active	Chaves	Dexter	80,000	106	storage impoundment & land apply	Yes	34.5	275	1945	0.7	MW-2	30-Nov-05	wastewater impoundment	not installed
480	Double Aught Dairy	1987	Active	Chaves	Dexter	70,000	75	storage impoundment & land apply	Yes	33.4	420	3550	0.4	MW-3	18-Mar-01	wastewater impoundment	data not provided



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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
568	Vanderploeg Dairy	1988	Active	Bernalillo	Albuquerque	2,000	70	evaporation impoundment only	Yes	31	86	870	ND	MW-West	6-May-09	wastewater impoundment	N/A
737	Parkland Dairy	1992	Active	Roosevelt	Portales	15,000	80	storage impoundment & land apply	Yes	27.8	290	1865	0.4	MW-2	14-Nov-05	wastewater impoundment	N/A
932	Midway Dairy	1993	Active	Curry	Portales	42,074	195	storage impoundment & land apply	Yes	27	30	518	ND	MW-1	14-May-09	wastewater impoundment	1.7
1135	Bos Dairy	btw 1997 and 2000	Active	Lea	Lovington	120,000	87	storage impoundment & land apply	Yes	26.9	185	1120	1.6	MW-2	2-Jan-08	wastewater impoundment	4.8
537	Van Dam Dairy	1987	Active	Roosevelt	Portales	35,463	90	storage impoundment & land apply	Yes	26.1	373	2380	0.5	MW-2	21-Aug-07	wastewater impoundment	8.97
1200	Milky Way Dairy	1999	Active	Chaves	Roswell	8,400	25	storage impoundment & land apply	Yes	26	1500	5500	ND	MW-1	23-Oct-06	wastewater impoundment	16
384	Philmar Dairy	1985	Active	Roosevelt	Portales	40,000	80-103	storage impoundment & land apply	Yes	23.4	310	2045	0.4	MW-2	4-Jan-06	wastewater impoundment	13.9
909	Tee Vee Dairy	1993	Active	Lea	Hobbs	48,000	76	storage impoundment & land apply	Yes	22.6	100	725	0.8	MW-4	12-Jul-07	wastewater impoundment	3.1
1391	Nutt Dairy	2002	Active	Luna	Deming	20,000	65-135	storage impoundment & land apply	Yes	21.1	138	1030	0.3	MW-1	23-Apr-03	wastewater impoundment	2.24
1299	Cooper-Legacy Dairy	2000	Active	Roosevelt	Portales	65,000	271	storage impoundment & land apply	Yes	20	26	476	ND	MW-2	20-Dec-07	wastewater impoundment	15
546	Caballo Dairy Inc	1931	Active	Sierra	Arrey	72,000	10	storage impoundment & land apply	Yes	18	190	1400	2.2	MW-1	4-Aug-06	wastewater impoundment	data not provided
753	Brouwer Dairy	1991	Active	Roosevelt	Portales	24,000	87	storage impoundment & land apply	Yes	17.4	140	945	0.3	MW-2	4-Jan-06	wastewater impoundment	8.5
1176	Jarratt Dairy	1995	Active	Valencia	Los Lunas	2,500	5	storage impoundment & land apply	Yes	16.6	36.2	854	2	MW-2	21-Feb-07	wastewater impoundment	12.1
772	Othart Dairy 2	1991	Active	Socorro	Veguita	7,500	70	evaporation impoundment only	Yes	16.5	data not provided	data not provided	0.2	MW-N	15-Feb-06	wastewater impoundment	N/A
1350	Loma Parda Dairy	2003	Active	Doña Ana	Garfield	26,000	40	storage impoundment & land apply	Yes	16.44	248.4	1922	2.4	MW-1	19-Apr-05	wastewater impoundment	N/A
1154	Saltridge Dairy	1997	Active	Roosevelt	Portales	30,000	72	storage impoundment & land apply	Yes	16.4	940	3070	2.3	MW-2	24-Jun-05	wastewater impoundment	5.8

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1277	El Dorado Dairy	2000	Active	Curry	Clovis	95,000	317	storage impoundment & land apply	Yes	15.5	85	560	0.2	MW-2	7-Apr-09	wastewater impoundment	2.5
1004	Willard Dairy	1998	Active	Torrance	Willard	80,000	100	storage impoundment & land apply	Yes	15.3	300	1435	1	MW-1B	17-Jul-09	wastewater impoundment	2.5
826	Anderson Dairy 2	1992	Active	Roosevelt	Portales	4,500	86	evaporation impoundment only	Yes	13.8	140	1005	ND	MW-4	2-Aug-05	wastewater impoundment	12
666	Western Star Dairy	1990	Active	Roosevelt	Portales	20,000	80-90	storage impoundment & land apply	Yes	13.1	230	1570	ND	MW-5	5-Oct-07	wastewater impoundment	Not installed
346	Abarca Dairy	1984	Inactive	Roosevelt	Portales	2,500	70	storage impoundment & land apply	Yes	11.5	100	855	0.4	MW-1	21-Feb-03	wastewater impoundment	10.7
195	Heraa Dairy	1982	Inactive	Socorro	Veguita	3,000	32	evaporation impoundment only	Yes	11.4	344	1680	73.7	MW-1	20-Dec-05	wastewater impoundment	N/A
898	Bonestroo Dairy LLC	1993	Active	Roosevelt	Portales	43,000	60	evaporation impoundment only	Yes	118.1	115	1460	0.7	MW-4	2-Aug-05	combination ww/sw impoundment	5.8
762	High Lonesome Dairy	1991	Active	Lea	Hobbs	60,000	99	storage impoundment & land apply	Yes	96.4	290	1940	16.8	MW-2,S	19-Apr-00	combination ww/sw impoundment	N/A
162	Yorktown Dairy	1981	Active	Chaves	Roswell	21,000	8	storage impoundment & land apply	Yes	61.2	305	3735	0.5	MW-2	6-Apr-03	combination ww/sw impoundment	not installed
921	Flecha Dairy	1994	Active	Eddy	Artesia	115,000	35	storage impoundment & land apply	Yes	48	76	2900	ND	MW-2A	3-Dec-08	combination ww/sw impoundment	23
934	South Slope Dairy	1993	Active	Curry	Clovis	225,000	344	storage impoundment & land apply	Yes	45.6	345	1475	0.6	MW-2	18-Jul-09	combination ww/sw impoundment	N/A
1136	Heritage Dairy	1997	Active	Curry	Clovis	100,000	230	storage impoundment & land apply	Yes	36.6	155	890	1.3	MW-3	26-Jun-06	combination ww/sw impoundment	not installed
703	Desperado Dairy	1990	Active	Curry	Clovis	48,000	350	storage impoundment & land apply	Yes	21.9	125	770	ND	MW-1	6-Jun-00	combination ww/sw impoundment	data not provided
1157	High Plains Dairy	1997	Inactive	Roosevelt	Portales	60,000	108	storage impoundment & land apply	Yes	19.6	50	790	0.2	MW-2A	10-Mar-09	combination ww/sw impoundment	3.1
1377	Grande Vida Dairy	2006	Active	Roosevelt	Portales	49,500	191	storage impoundment & land apply	Yes	11.5	20	375	0.2	MW-2	26-Feb-09	combination ww/sw impoundment	7.7
1423	Sandcrest Dairy	2006	Active	Curry	Portales	65,000	108	storage impoundment & land apply	Yes	10.5	42	400	0.3	MW-2	10-Mar-09	combination ww/sw impoundment	N/A

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688	Top Line Dairy	1990	Active	Eddy	Artesia	550,000	18	storage impoundment & land apply	Yes	330	2300	10000	ND	MW-5	26-Jul-07	land application field	27
692	Del Oro Dairy	1990	Active	Doña Ana	Anthony	60,000	55-80	evaporation impoundment only	Yes	245	560	3461	3	DO-3	16-Dec-03	land application field	1.8
227	Queso Grande Dairy	1982	Active	Chaves	Roswell	100,000	40	storage impoundment & land apply	Yes	220	N/A	N/A	1.52	MW-10	28-Mar-01	land application field	data not provided
70	Mountain View Dairy	1980	Active	Doña Ana	Mesquite	60,000	32-58	storage impoundment & land apply	Yes	195	N/A	N/A	N/A	BR-3	19-Sep-89	land application field	data not provided
74	Buena Vista 2	1979	Active	Doña Ana	Mesquite	55,000	13-32	storage impoundment & land apply	Yes	194.5	1610	4705	0.28	MW-2	11-Sep-04	land application field	0.1
624	Dominguez Dairy	1990	Active	Doña Ana	Mesquite	85,000	9	storage impoundment & land apply	Yes	186.5	1195	data not provided	0.6	MW-2 (DM2)	28-Dec-91	land application field	not installed
677	Cheyenne Dairy I and III	1991	Active	Chaves	Dexter	180,000	50-100	storage impoundment & land apply	Yes	182.5	310	3740	0.3	MW-2	23-Oct-05	land application field	2.7
86	Buena Vista Dairy	1979	Inactive	Doña Ana	Mesquite	60,000	25-45	storage impoundment & land apply	Yes	164	N/A	N/A	N/A	70/86/340-1	19-Sep-89	land application field	6.2
765	J&M Dairy	1991	Inactive	Eddy	Artesia	90,000	37	storage impoundment & land apply	Yes	160	220	4300	2.2	MW-3	5-Jul-06	land application field	14
343	Tom Visser Dairy	1984	Active	Chaves	Roswell	60,000	10	storage impoundment & land apply	Yes	146.7	1020	6290	0.6	East MW	19-Jul-07	land application field	27
764	Arroyo Dairy	1993	Active	Chaves	Roswell	80,000	17-35	storage impoundment & land apply	Yes	134.3	900	5140	0.7	MW-1A	4-Dec-05	land application field	60.4
791	3-V Dairy	1992	Active	Chaves	Roswell	120,000	10	storage impoundment & land apply	Yes	130	240	3900	ND	MW-4	21-Apr-09	land application field	N/A
207	Nature's Dairy Inc	1982	Active	Chaves	Roswell	84,000	14-17	storage impoundment & land apply	Yes	110	2000	7500	ND	MW-4	25-Mar-09	land application field	data not provided
228	New Horizon Dairy	1982	Inactive	Chaves	Roswell	120,000	29	storage impoundment & land apply	Yes	110	190	4775	0.7	MW-3	2-Jun-01	land application field	data not provided
554	Break-Away Dairy	1988	Active	Chaves	Roswell	35,000	13	storage impoundment & land apply	Yes	110	880	3800	ND	MW-3	20-Aug-08	land application field	7.1
1141	Enchantment Dairy	1997	Active	Chaves	Lake Arthur	128,000	10	storage impoundment & land apply	Yes	110	830	5800	ND	MW-5	11-Dec-07	land application field	2.4

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										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date		Source Monitored
163	Pirtle Farms Dairy	1981	Active	Chaves	Roswell	35,000	16	storage impoundment & land apply	Yes	108	365	3285	0.6	MW-4	26-Dec-02	land application field	22.8
718	De Groot Dairy	1991	Active	Chaves	Roswell	120,000	15-26	storage impoundment & land apply	Yes	99.6	2500	8455	1	MW-3	4-Dec-05	land application field	16.1
177	Gonzalez Dairy	1981	Active	Doña Ana	Mesquite	49,000	14	storage impoundment & land apply	Yes	96.9	1440	5100	3.36	MW-2	1-Dec-06	land application field	30.6
167	River Valley Dairy	~1981	Active	Doña Ana	Mesquite	35,000	11	storage impoundment & land apply	Yes	85.9	980	4245	1	MW-5	8-Mar-03	land application field	38
913	Creekside Dairy	1993	Active	Eddy	Lake Arthur	56,000	29-75	storage impoundment & land apply	Yes	73.2	160	3920	0.9	MW-3	29-Oct-04	land application field	17.9
951	Brand West Dairy	1995	Inactive	Lea	Lovington	99,990	82	storage impoundment & land apply	Yes	67.5	150	1110	ND	MW-3	6-Apr-06	land application field	N/A
606	Dexter Dairy	1989	Active	Chaves	Dexter	40,000	95-110	storage impoundment & land apply	Yes	64	200	2700	ND	MW-1	25-Aug-08	land application field	8.6
963	Red Roof Dairy	1993	Active	Roosevelt	Portales	37,500	124-142	storage impoundment & land apply	Yes	46.1	60	610	0.3	MW-6	6-Feb-09	land application field	1.9
707	Vaz Dairy	1991	Active	Chaves	Roswell	100,000	15-25	storage impoundment & land apply	Yes	45	5700	12000	ND	MW-4	24-Jun-06	land application field	32
1286	Greenfield Park Dairy	2000	Active	Roosevelt	Portales	40,000	145	storage impoundment & land apply	Yes	42.1	39.6	366	ND	MW-3	28-Feb-08	land application field	2.18
1245	4-Way Dairy	2000	Active	Roosevelt	Portales	150,000	90	storage impoundment & land apply	Yes	34.8	30	415	ND	MW-5	5-Mar-09	land application field	21.5
1331	Butterfield Dairy Farm	2001	Active	Luna	Deming	60,000	90	storage impoundment & land apply	Yes	34	48	920	ND	MW-3	31-Jan-08	land application field	23
689	P-2 Dairy	1990	Active	Chaves	Dexter	90,000	35-75	storage impoundment & land apply	Yes	31.7	940	5020	ND	MW-3	19-Aug-05	land application field	3.2
1246	Hide-A-Way Dairy	2000	Active	Roosevelt	Clovis	61,250	250	storage impoundment & land apply	Yes	28	89.4	487	ND	MW-3	21-Aug-07	land application field	3.04
1312	Milk Flow Dairy	2000/2001	Inactive	Roosevelt	Portales	40,000	120	storage impoundment & land apply	Yes	25.4	95	580	ND	MW-3	13-May-08	land application field	data not provided
796	Comerstone Dairy	1991	Active	Eddy	Artesia	90,000	46	storage impoundment & land apply	Yes	24	98	3800	ND	MW-7	23-Oct-07	land application field	N/A

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727	Shawnee Dairy	1991	Active	Chaves	Dexter	81,000	43	storage impoundment & land apply	Yes	23	140	2200	ND	MW-3	15-Oct-09	land application field	ND
1250	Sky County Farms	2005	Active	Roosevelt	Portales	90,000	128	storage impoundment & land apply	Yes	23	77	704	ND	MW-3	30-Jul-07	land application field	13
717	Epicenter Dairy	1993	Inactive	Chaves	Hagerman	48,000	145	storage impoundment & land apply	Yes	21	400	3000	ND	MW-3A	29-Feb-08	land application field	4.7
667	H and R Westra Dairy	1990	Active	Roosevelt	Portales	20,000	45	storage impoundment & land apply	Yes	19.9	15	300	ND	MW-4	4-May-06	land application field	2
1034	Edeal Dairy	1995	Active	Valencia	Los Lunas	35,000	6	storage impoundment & land apply	Yes	18	84	726	0.62	MW-4	12-Sep-97	land application field	N/A
1001	James Idsinga & Son Dairy	1995	Active	Curry	Portales	32,000	225	storage impoundment & land apply	Yes	16.6	10	435	ND	MW-A	29-Nov-00	land application field	0.9
1067	Stepping Stone Dairy	1996	Inactive	Roosevelt	Portales	7,000	75	evaporation impoundment only	Yes	14.9	285	3625	ND	MW-1	22-Mar-07	land application field	N/A
1559	Rocky Top Dairy	2006	Active	Lea	Lovington	60,000	77	storage impoundment & land apply	Yes	13	20	315	ND	MW-3	28-Nov-08	land application field	N/A
1332	Opportunity Dairy	2004	Active	Roosevelt	Clovis	65,000	271	storage impoundment & land apply	Yes	12.9	45	695	0.2	MW-3	19-Jun-07	land application field	1.6
514	Amistad Dairy	1988	Active	Roosevelt	Portales	6,000	90	evaporation impoundment only	Yes	12.8	190	1200	0.3	MW-2	23-Jun-09	land application field	7.2
911	Chalk Hill Dairy	before 1992	Inactive	Roosevelt	Portales	1,250	90	direct land apply	Yes	11.7	345	1815	ND	MW-3	23-Sep-05	land application field	8.4
1288	Sunwest Dairy	2001	Active	Curry	Clovis	60,000	300	storage impoundment & land apply	Yes	11.7	136	595	ND	MW-3	5-Dec-03	land application field	7
926	Carter's Milk Factory	1992	Inactive	Roosevelt	Portales	64,000	110	storage impoundment & land apply	Yes	10.7	620	715	0.2	MW-4	20-Jan-06	land application field	3.6
164	Southern Skies Dairy	1981	Active	Chaves	Roswell	42,000	22	storage impoundment & land apply	Yes	235	207	3450	0.3	MW-3	5-May-97	stormwater impoundment	32.8
299	Blackwater Draw Dairy	before 1983	Inactive	Roosevelt	Portales	25,000	115	storage impoundment & land apply	Yes	184	125	4455	0.6	MW-2	8-Jul-01	stormwater impoundment	N/A
487	Baca Linda Dairy	1987	Inactive	Chaves	Roswell	56,000	47	storage impoundment & land apply	Yes	150	910	5000	ND	MW-3A	20-Nov-06	stormwater impoundment	24

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**Table 2:** Sources of highest historical nitrate-nitrogen contamination at dairy facilities

Discharge Permit No. (DP#)	Current Facility Name	Year Discharge Began	Status	County	Closest City	Permitted Discharge Volume - Gallons per Day (GPD)	Most shallow Depth-to-Water (ft) as of March 2009	Permitted wastewater management practices	Ever had NO <sub>3</sub> -N contamination in ground water?	Highest NO <sub>3</sub> -N Reported in Ground Water							
										NO <sub>3</sub> -N mg/L (std = 10.0 mg/L)	Cl mg/L (std = 250.0 mg/L)	TDS mg/L (std = 1000.0 mg/L)	TKN mg/L	Monitoring Well (MW) Identity	Sample Collection Date	Source Monitored	Upgradient MW NO <sub>3</sub> -N mg/L
833	Big Sky/Desertland Dairy	1992	Active	Doña Ana	Mesquite	80,000	32-60	storage impoundment & land apply	Yes	129.4	935	2800	50.8	833-08	21-Jun-08	stormwater impoundment	16.4
533	Dandee Dairy	1988	Active	Chaves	Dexter	27,000	24-90	storage impoundment & land apply	Yes	127	28.3	data not provided	2.7	MW-2	2-Aug-94	stormwater impoundment	1.89
208	Oasis Dairy	1982	Inactive	Chaves	Roswell	64,000	28	storage impoundment & land apply	Yes	98.7	600	5190	10.7	MW-3	28-Apr-09	stormwater impoundment	11.8
595	Back Nine Dairy	before 1988	Active	Roosevelt	Portales	10,000	67	storage impoundment & land apply	Yes	63.7	340	1980	0.8	MW-6	16-Apr-09	stormwater impoundment	data not provided
734	Cottonwood Springs Dairy I	~1991	Active	Eddy	Lake Arthur	84,000	25	storage impoundment & land apply	Yes	49.9	490	4505	6.8	MW-3	12-Jan-02	stormwater impoundment	37.8
635	Woodcrest Dairy	1989	Active	Chaves	Roswell	100,000	8-15	storage impoundment & land apply	Yes	49.3	1000	5815	1.4	MW-3	23-Jul-05	stormwater impoundment	4.1
706	Rajen Dairy	1992	Active	Curry	Clovis	200,000	291	storage impoundment & land apply	Yes	42	100	930	ND	JAR #1	23-Sep-92	stormwater impoundment	7
797	Cheyenne Dairy 2	1992	Active	Chaves	Roswell	80,000	110-117	storage impoundment & land apply	Yes	22.5	125	1720	ND	MW-2	22-Jul-05	stormwater impoundment	0.37
1131	Par 5 Dairy and Select Milk	1997	Active	Chaves	Dexter	410,000	40-52	storage impoundment & land apply	Yes	21.3	440	3960	0.4	MW-3	22-Jul-05	stormwater impoundment	5.2