

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL

Date	Time	Depth of well, feet below LSD (72008)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Hard- ness, water, mg/L as CaCO3 (00900)	Noncarb hard- ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)														
APR 2004	02...	1030	5	--	--	--	--	--	--	--	--	--	--	
	12...	1110	5	--	--	--	--	--	--	--	--	--	--	
MAY	10...	2005	5	--u	--u	8.0	350	270	--	71.9	21.6	3.73	.9	32.2
	11...	1105	5	--u	--u	8.7	500	260	58	68.6	21.3	3.20	.7	25.0
	14...	0815	5	--u	--u	9.1	480	260	44	69.9	21.9	3.17	.6	21.8
	24...	1005	5	--	--	8.0	470	--	--	--	--	--	--	--
JUN	22...	1020	5	--	--	--	--	300	59	78.5	24.7	2.99	.4	14.5
JUL	06...	1035	5	--	--	7.8	530	310	120	79.6	25.8	3.23	.3	13.6
	22...	0925	5	--	--	8.0	670	310	63	80.5	25.8	3.56	.3	13.3
	23...	0900	5	--	--	7.1	470	290	8	76.0	24.5	3.36	.3	12.2
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)														
APR 2004	12...	1110	8	--	--	--	--	--	--	--	--	--	--	
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)														
APR 2004	02...	1035	13	--	--	--	--	--	--	--	--	--	--	
	12...	1110	13	--	--	--	--	--	--	--	--	--	--	
MAY	14...	0820	13	--	--	9.3	850	--	--	--	--	--	--	
	24...	1015	13	--	--	8.5	900	--	--	--	--	--	--	
JUL	22...	0930	13	--	--	8.8	890	--	--	--	--	--	--	
	23...	0910	13	--	--	8.0	700	--	--	--	--	--	--	
AUG	25...	1430	13	--	--	--	--	--	--	--	--	--	--	
SEP	22...	1348	13	--	--	--	--	--	--	--	--	--	--	
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)														
APR 2004	02...	1040	25	--u	--u	--	--	510	--	164	24.2	14.3	3	131
	12...	1110	25	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)														
APR 2004	15...	1030	5	--	--	8.0	376	--	--	--	--	--	--	
MAY	11...	1400	5	--	--	7.7	540	--	--	--	--	--	--	
	14...	1030	5	--	--	8.7	470	--	--	--	--	--	--	
	18...	1605	5	--	--	7.9	550	--	--	--	--	--	--	
	24...	1235	5	--	--	8.0	570	--	--	--	--	--	--	
JUN	14...	1135	5	--	--	8.9	610	--	--	--	--	--	--	

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L as N (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	.12	.09	14.3	3.23
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	20	--o	.08	25.1	1.0	61.2	66.3	--	--	--	E.04n	15.7	3.54
11...	17	201@c	.11	15.6	1.1	58.1	47.6	380	.52	.06	.04	18.3	4.13
14...	15	221@c	.04	10.4	1.2	59.0	38.4	377	.51	.07	.06	19.0	4.29
24...	--	231@c	--	--	--	--	--	--	--	--	E.03n	23.7	5.36
JUN													
22...	9	238@c	E.01n	3.86	1.1	68.5	46.6	410	.56	.08	.07	--	--
JUL													
06...	9	190@c	.28	2.81	1.1	66.2	39.3	376	.51	.17	.13	30.1	6.80
22...	8	244@c	6.41d	1.91	1.1	66.8	35.7	413	.56	.29	.22	--	--
23...	8	283@c	5.03d	1.50	1.2	61.9	27.5	411	.56	.11	.08	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	.46	.36	33.8	7.63
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	.38	.30	32.1	7.25
24...	--	--	--	--	--	--	--	--	--	.07	.05	29.9	6.76
JUL													
22...	--	--	--	--	--	--	--	--	--	2.58	2.00d	30.6	6.92
23...	--	--	--	--	--	--	--	--	--	1.01	.78	31.4	7.08
AUG													
25...	--	--	--	--	--	--	--	--	--	5.41	4.20d	36.7	8.30
SEP													
22...	--	--	--	--	--	--	--	--	--	3.88	3.01d	39.6	8.95
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	35	--	.36	107	.3	63.0	154	--	--	.52	.40	35.2	7.96
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	.26	.20	49.9	11.3
MAY													
11...	--	--	--	--	--	--	--	--	--	.06	.05	62.1	14.0
14...	--	--	--	--	--	--	--	--	--	--	E.04n	--	--
18...	--	--	--	--	--	--	--	--	--	--	<.08d	62.2	14.1
24...	--	--	--	--	--	--	--	--	--	--	E.02n	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	1.01	.78	121	27.4

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd, 0.7u GF ug/L (49295)	2,6-Diethyl-aniline, water, fltrd, 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methylphenyl)amino]2-oxoESA, wat flt ug/L (62850)	2Chloro-2',6'-diethyl acetanilide, wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	3.28	.171	.052	3.12	1.02	26.6d	--	--	<.09	<.006	.51	<.005	<.006
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	3.55	.033	.010	.294	.10oc	6.43d	E5n	37.5	<.09	<.006	.63	<.005	<.006
11...	4.14	.033	.010	.233	.08oc	5.63d	<6	21.3	<.09	<.006	.02	<.005	E.044
14...	4.30	.036	.011	.239	.08oc	6.01d	7	15.9	<.09	<.006	.43	<.005	E.055
24...	5.38d	.056	.017	.402	.13oc	8.85d	--	--	<.09	<.006	<.02	<.005	E.105
JUN													
22...	5.79d	--	<.008	.411	.13oc	9.52d	<6	11.4	<.09	<.006	--	<.005	E.118
JUL													
06...	6.81d	.030	.009	.297	.10oc	9.09d	E4n	7.0	<.09	<.006	--	<.005	E.105
22...	6.98d	--	E.005n	.184	.06	11.7d	<6	6.8	<.09	<.006	--	<.005	E.094
23...	6.36d	--	<.008	.258	.08oc	9.29d	E4n	3.7	<.09	<.006	--	<.005	E.101
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	7.73d	.338	.103	6.13	2.00doc	55.4d	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	7.26d	.043	.013	.862	.28oc	21.2d	--	--	--	--	--	--	--
24...	6.90d	.460	.140	.797	.26oc	27.7d	--	--	--	--	--	--	--
JUL													
22...	6.94d	.082	.025	.714	.23	39.7d	--	--	--	--	--	--	--
23...	7.09d	.030	.009	.258	.08oc	16.8d	--	--	--	--	--	--	--
AUG													
25...	8.35d	.161	.049	.763	.25oc	84.6d	--	--	--	--	--	--	--
SEP													
22...	8.98d	.105	.032	.227	.074	51.8d	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	8.01d	.174	.053	.558	.18doc	10.4d	E5n	201	<.09	<.006	<.02	<.005	<.006
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	11.3d	.039	.012	.595	.19oc	16.4d	--	--	<.09	<.006	--	<.005	<.006
MAY													
11...	14.0d	.039	.012	.438	.14oc	17.7d	--	--	<.09	<.006	.55	<.005	<.006
14...	14.3d	--	E.006n	.322	.10oc	17.6d	--	--	<.09	<.006	.62	<.005	<.006
18...	14.1d	.079	.024d	.129	.04doc	16.6d	--	--	<.09	<.006	.77	<.005	<.006
24...	16.7d	--	E.004n	.245	.08oc	18.6d	--	--	<.09	<.006	.87	<.040	<.006
JUN													
14...	27.4d	.102	.031	.316	.10oc	33.8d	--	--	--	--	--	--	--























CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Ter- bufos onon sulfone ug/kg (63383)	Ter- buthyl azine, ug/kg (63384)	trans- Perme- thrin, ug/kg (63366)	Triflur alin, ug/kg (63390)	Di- chlor- vos, water fltrd, ug/L (38775)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	<.01
12...	<5mc	<1	<5	<1	--
MAY					
10...	--	--	--	--	<.01
11...	--	--	--	--	<.01
14...	--	--	--	--	<.01
24...	--	--	--	--	<.01
JUN					
22...	--	--	--	--	<.01
JUL					
06...	--	--	--	--	<.01
22...	--	--	--	--	<.01
23...	--	--	--	--	<.01
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
12...	<5mc	<1	<5	<1	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	--
12...	<5mc	<1	<5	<1	--
MAY					
14...	--	--	--	--	--
24...	--	--	--	--	--
JUL					
22...	--	--	--	--	--
23...	--	--	--	--	--
AUG					
25...	--	--	--	--	--
SEP					
22...	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	<.01
12...	<5mc	<1	<5	<1	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)					
APR 2004					
15...	--	--	--	--	<.01
MAY					
11...	--	--	--	--	<.01
14...	--	--	--	--	<.01
18...	--	--	--	--	<.01
24...	--	--	--	--	<.01
JUN					
14...	--	--	--	--	--

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Time	Depth of well, feet below LSD (72008)	UV absorbance, 254 nm, wat flt units/cm (50624)	SUVA, 254 nm, abs units/meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfiltered, uS/cm 25 degC (00095)	Hard- ness, water, mg/L as CaCO3 (00900)	Noncarb hard- ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	1240	5	--	--	7.8	780	--	--	--	--	--	--	--
17...	1145	5	--	--	7.6	934	--	--	--	--	--	--	--
23...	1035	5	--	--	7.5	730	--	--	--	--	--	--	--
AUG													
05...	1210	5	--	--	7.5	869	--	--	--	--	--	--	--
19...	1330	5	--	--	7.7	303	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	1110	28	--	--	--	--	--	--	--	--	--	--	--
15...	1035	28	--	--	8.0	1060	--	--	--	--	--	--	--
MAY													
11...	1405	28	--	--	7.7	1070	--	--	--	--	--	--	--
14...	1040	28	--	--	8.9	990	--	--	--	--	--	--	--
18...	1610	28	--	--	8.3	1190	--	--	--	--	--	--	--
24...	1240	28	--	--	8.5	970	--	--	--	--	--	--	--
JUN													
14...	1140	28	--	--	7.1	930	--	--	--	--	--	--	--
JUL													
06...	1245	28	--	--	8.2	970	--	--	--	--	--	--	--
17...	1150	28	--	--	7.9	988	--	--	--	--	--	--	--
23...	1040	28	--	--	7.9	790	--	--	--	--	--	--	--
AUG													
05...	1200	28	--	--	8.3	762	--	--	--	--	--	--	--
19...	1320	28	--	--	7.9	330	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	1110	65	--	--	--	--	--	--	--	--	--	--	--
15...	1040	65	--u	--u	7.7	1020	350	190	95.9	27.3	12.3	1	61.7
MAY													
14...	1045	65	--	--	9.0	760	--	--	--	--	--	--	--
JUL													
17...	1155	65	--	--	8.0	900	--	--	--	--	--	--	--
23...	1045	65	--	--	8.0	670	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	1110	81.1	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	1110	5.0	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	1425	5.0	--	--	7.7	715	--	--	--	--	--	--	--

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VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L as N (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	1.28	.99	196	44.2
17...	--	--	--	--	--	--	--	--	--	1.16	.90	252	56.9
23...	--	--	--	--	--	--	--	--	--	1.31	1.02	260	58.8
AUG													
05...	--	181@c	--	--	--	--	--	--	--	.84	.66	256	57.9
19...	--	--	--	--	--	--	--	--	--	.96	.74	135	30.6
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	.14	.11	104	23.5
MAY													
11...	--	--	--	--	--	--	--	--	--	--	E.04n	98.3	22.2
14...	--	--	--	--	--	--	--	--	--	--	<.04	106	24.1
18...	--	--	--	--	--	--	--	--	--	--	E.02n	112	25.3
24...	--	--	--	--	--	--	--	--	--	--	E.02n	106	24.0
JUN													
14...	--	--	--	--	--	--	--	--	--	--	E.02n	107	24.3
JUL													
06...	--	--	--	--	--	--	--	--	--	--	E.02n	114	25.7
17...	--	--	--	--	--	--	--	--	--	--	<.04	105	23.8
23...	--	--	--	--	--	--	--	--	--	--	<.04	109	24.6
AUG													
05...	--	--	--	--	--	--	--	--	--	--	<.04	113	25.4
19...	--	--	--	--	--	--	--	--	--	--	<.04	110	24.8
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	27	165@c	.16	33.4	.5	64.0d	85.0	547	.74	.15	.12	65.6	14.8
MAY													
14...	--	--	--	--	--	--	--	--	--	.09	.07	73.3	16.6
JUL													
17...	--	319@c	--	--	--	--	--	--	--	--	<.04	81.0	18.3
23...	--	--	--	--	--	--	--	--	--	.25	.19	80.2	18.1
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	.10	.08d	160	36.2

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd, 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd, 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	44.2d	.062	.019	.101	.03oc	44.7d	--	--	<.09	<.006	1.78	<.005	<.006
17...	56.9d	.177	.054	.061	.02oc	60.6d	--	--	<.09	<.006	1.67	<.005	<.006
23...	58.9d	.500	.152	.156	.05oc	63.7d	--	--	<.09	<.006	4.21	<.005	<.006
AUG													
05...	58.2d	1.07	.326	.061	.02oc	64.3d	--	--	<.09	<.006	4.52	<.005	<.006
19...	30.7d	.503	.153	.043	.014	34.5d	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	23.6d	.141	.043	.635	.21oc	26.8d	--	--	<.09	<.006	<.02	<.005	<.006
MAY													
11...	22.2d	.059	.018	.604	.197	26.8d	--	--	<.09	<.006	<.02	<.005	<.006
14...	24.1d	.092	.028	.460	.15oc	25.5d	--	--	--	--	--	--	--
18...	25.4d	.279	.085	.530	.173	25.8d	--	--	--	--	--	--	--
24...	24.0d	.066	.020	.549	.18oc	26.4d	--	--	--	--	--	--	--
JUN													
14...	24.3d	.046	.014	.598	.20oc	23.7d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	25.7d	.043	.013	.920	.30oc	22.5d	--	--	<.09	<.006	<.02	<.005	<.006
17...	23.8d	.046	.014	.595	.19oc	24.5d	--	--	<.09	<.006	<.02	<.005	<.006
23...	24.7d	.056	.017	.938	.306d	29.0d	--	--	--	--	--	--	--
AUG													
05...	25.5d	.043	.013	.662	.22oc	26.9d	--	--	<.09	<.006	<.02	<.005	<.006
19...	24.8d	.026	.008	.714	.23oc	27.0d	--	--	<.09	<.006	<.02	<.005	<.006
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	15.0d	.641	.195	.665	.22oc	16.9d	<6	682	<.09	<.006	<.02	<.005	<.006
MAY													
14...	16.6d	.095	.029	1.32	.43oc	21.2d	--	--	--	--	--	--	--
JUL													
17...	18.4d	.302	.092	.874	.28oc	22.6d	--	--	<.09	<.006	<.02	<.005	<.006
23...	18.2d	.391	.119	1.05	.341d	26.8d	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	36.2d	.053	.016	4.49	1.47doc	75.9d	--	--	--	--	--	--	--























CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Tebu- thiuron solids, ug/kg (63376)	Terbu- fos, solids, ug/kg (63380)	Ter- bufos onon sulfone solids, ug/kg (63383)	Ter- buthyl azine, solids, ug/kg (63384)	trans- Perme- thrin, solids, ug/kg (63366)	Triflur alin, solids, ug/kg (63390)	Di- chlor- vos, water fltrd, ug/L (38775)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
JUL 2004							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	<.01
AUG							
05...	--	--	--	--	--	--	<.01
19...	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
APR 2004							
05...	<3mc	<3mc	<5mc	<1	<5	<1	--
15...	--	--	--	--	--	--	<.01
MAY							
11...	--	--	--	--	--	--	<.01
14...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
JUN							
14...	--	--	--	--	--	--	<.01
JUL							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
AUG							
05...	--	--	--	--	--	--	<.01
19...	--	--	--	--	--	--	<.01
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
APR 2004							
05...	<3mc	<3mc	<5mc	<1	<5	<1	--
15...	--	--	--	--	--	--	<.01
MAY							
14...	--	--	--	--	--	--	--
JUL							
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
MAY							
11...	--	--	--	--	--	--	--



CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	.26	.20	172	38.9
18...	--	--	--	--	--	--	--	--	--	--	E.03n	182	41.1
24...	--	--	--	--	--	--	--	--	--	.06	.05	166	37.5
JUN													
14...	--	118@c	--	--	--	--	--	--	--	1.37	1.07	174	39.4
JUL													
06...	18	133@c	.27	22.2	<.2	39.7	39.2	429	.58	1.80	1.40	142	32.0
17...	--	--	--	--	--	--	--	--	--	2.56	1.99d	134	30.4
23...	--	--	--	--	--	--	--	--	--	3.67	2.85d	141	31.9
AUG													
05...	--	--	--	--	--	--	--	--	--	1.32	1.03	181	40.9
19...	--	--	--	--	--	--	--	--	--	2.41	1.87d	190	43.0
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	13	--	<.32d	7.06d	.3	60.2d	58.9d	--	--	.09	.07	--	--
MAY													
11...	9	257@c	<.03	1.91	.3	51.8	18.7	352	.48	.07	.05	20.3	4.58
14...	6	98@c	.07i	1.14	.2	30.5	7.5	299	.41	3.73	2.90d	117	26.4
18...	6	158@c	.03i	1.33	<.2	40.6	8.4	384	.52	5.01	3.89d	129	29.2
24...	5	91@c	<.02	1.00	<.2	22.0	4.3	238	.32	2.78	2.16d	83.2	18.8
JUN													
14...	4	137@c	.51d	1.08	<.2	39.6	13.2	510	.69	.33	.26	245	55.3
JUL													
06...	--	146@c	--	--	--	--	--	--	--	1.11	.86	267	60.3
17...	--	134@c	--	--	--	--	--	--	--	.74	.58	220	49.6
23...	--	131@c	--	--	--	--	--	--	--	1.23	.95	204	46.1
AUG													
05...	--	--	--	--	--	--	--	--	--	2.06	1.60d	62.7	14.2
19...	--	--	--	--	--	--	--	--	--	.72	.56	105	23.7
SEP													
22...	7	229@c	.09	--o	<.2	43.1	--o	--	--	1.96	1.52d	90.2	20.4
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	1.19	.92	42.6	9.63
23...	--	--	--	--	--	--	--	--	--	1.16	.90	46.7	10.5
SEP													
22...	--	304@c	--	--	--	--	--	--	--	1.74	1.35	69.2	15.6

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd, 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd, 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	39.0d	.062	.019	.929	.30oc	63.4d	--	--	--	--	--	--	
18...	41.1d	.131	.040	.724	.236d	48.9d	--	--	--	--	--	--	
24...	37.5d	.187	.057	.702	.23oc	47.9d	--	--	--	--	--	--	
JUN													
14...	39.7d	1.03	.314	.754	.25oc	50.1d	--	--	<.09	<.006	.14	<.005	<.006
JUL													
06...	32.2d	.703	.214	.681	.22oc	37.7d	E5n	35.9	<.09	<.006	--	<.005	<.006
17...	30.5d	.348	.106	.343	.11oc	48.0d	--	--	<.09	<.006	--	<.005	<.006
23...	32.2d	.891	.271	.126	.04oc	48.7d	--	--	--	--	--	--	--
AUG													
05...	42.3d	4.62	1.41d	.196	.06oc	59.7d	--	--	--	--	--	--	
19...	43.5d	1.54	.468	.083	.03oc	74.2d	--	--	--	--	--	--	
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	
30...	11.9d	--	E.007n	3.22	1.05doc	38.8d	<6	39.8	<.09	<.006	<.02	<.005	<.006
MAY													
11...	4.61	.079	.024	.932	.30oc	10.0d	<6	11.4	<.09	<.006	.14	<.005	E.068
14...	26.6d	.789	.240	.733	.24oc	32.3d	9	7.3	<.09	<.006	.27	<.005	E5.69
18...	29.4d	.516	.157	.794	.26oc	36.8d	E6n	14.5	<.09	<.006	.21	<.005	E7.75
24...	19.1d	.881	.268	1.07	.35oc	26.8d	13	9.3	<.09	<.006	.17	<.005	E8.26
JUN													
14...	55.3d	.085	.026	1.44	.47oc	66.6d	28	4.8	<.09	<.006	.24	<.005	E7.00
JUL													
06...	60.5d	.559	.170	1.22	.40oc	62.9d	--	--	<.09	<.006	.28	<.005	E6.72
17...	49.6d	.135	.041	.954	.31oc	63.0d	--	--	<.09	<.006	.15	<.005	E8.82
23...	46.2d	.368	.112	.598	.20oc	52.2d	--	--	<.09	<.006	.33	<.005	E3.31
AUG													
05...	14.5d	1.02	.311	1.27	.41oc	36.5d	--	--	<.09	<.006	1.30	<.005	E.978
19...	23.9d	.753	.229	.855	.28oc	28.5d	--	--	<.40	<.006	.30	<.005	E33.6
SEP													
22...	20.6d	.546	.166	1.07	.35oc	27.6d	E4n	.9	<.09	<.006	.19	<.005	E1.73
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	
JUL													
17...	9.84d	.697	.212	3.52	1.15doc	41.5d	--	--	<.09	<.006	.08	<.005	E1.19
23...	10.8d	.697	.212	1.80	.588d	27.9d	--	--	--	--	--	--	--
SEP													
22...	15.7d	.200	.061	1.06	.34oc	37.0d	--	--	<.09	<.006	1.07	<.005	E1.18

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water, fltrd, ug/L (61625)	4Chloro-2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd, 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd, 0.7u GF ug/L (61030)	Aceto-chlor SAA, water, fltrd, ug/L (62847)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA SA, water, fltrd, ug/L (62849)	Ala-chlor ESA, water, fltrd, 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd, 0.7u GF ug/L (61031)	Ala-chlor SAA, water, fltrd, ug/L (62848)	Ala-chlor, water, fltrd, ug/L (46342)	Amino-methyl-phos-phonic acid, wat flt ug/L (62649)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.039	<.004	<.006	.07	.02	<.02	<.006	<.02	.09	.07	<.02	<.005	.3
JUL													
06...	<.004	<.004	<.006	--	--	--	<.006	--	--	--	--	<.005	<.1
17...	<.020c	<.004	<.006	--	--	--	<.006	--	--	--	--	--u	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
MAY													
11...	<.004	<.004	<.006	.03	.04	<.02	.148	<.02	<.02	.02	.02	<.020	<.1
14...	<.004	<.004	<.006	.26	.41	.22	E.643	<.02	.04	.05	.17	E.058	.2
18...	<.004	<.004	<.006	.24	.36	.35	.608	<.02	.02	.04	.13	<.091c	.1
24...	<.004	<.004	<.006	.16	.23	.21	.327	<.02	.04	.04	.12	.133	.1
JUN													
14...	<.004	<.004	<.006	.33	.48	.05	.170	<.02	.07	<.02	<.02	.116	.2
JUL													
06...	<.004	<.004	<.006	<.02	.36	<.02	.104	<.02	<.02	<.02	<.02	<.005	.2
17...	<.004	<.004	<.006	.21	.36	.18	.148	<.02	.03	.11	.02	<.005	--
23...	<.004	<.004	<.006	.11	.26	<.02	.122	<.02	<.02	.09	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.04	.06	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--
19...	<.004	<.004	<.006	.08	.13	.07	.860	<.02	<.02	<.02	<.02	<.005	<.1
SEP													
22...	<.004	<.004	<.006	<.02	.18	<.02	<.070c	<.02	<.02	<.02	<.02	--u	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.004	<.004	<.006	.06	.05	.04	.059	<.02	.02	.03	<.02	<.005	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.11	<.02	<.02	--u	--

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Atra- zine, wat flt immuno- assay unadj. ug/L (99775)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Chlor- pyrifos water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water, fltrd 0.7u GF ug/L (82687)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	.05	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.073	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
11...	--	.344	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
14...	--	E673	<.02	<.050	<.010	<.041	--u	<.005	<.006	<.008	<.009	<.003	<.012
18...	--	E745c	<.03c	<.050	<.010	<.041	--u	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	139	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	11.4	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	2.46	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	3.28	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	1.52	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
AUG													
05...	--	41.3	<.07	<.050	<.010	<.041	<.06	.142	<.006	<.008	<.009	<.003	<.012
19...	--	11.4	<.07	<.050	<.010	<.041	<2.00	<.005	<.006	<.008	<.009	<.200	<.012
SEP													
22...	--	.620	<.07	<.050	<.010	--u	<.18c	<.005	<.006	<.008	<.009	<.003	<.012
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	72.0	<.07	<.050	<.010	<.041	<.06	.214	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	13.4	<.07	<.050	<.010	--u	<.06	.112	<.006	<.008	<.009	<.003	<.012

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Diaz- inon, oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicro- tophos, water, fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- enamid water, fltrd, ug/L (61588)	Dimeth- oate, water, fltrd, 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
17...	<.01	<.005	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
14...	<.01	<.005	<.08	<.009	.04	<.02	.13	<.006	<.03	<.004	<.008	--u	<.03
18...	<.01	<.005	<.08	<.009	.04	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	--u	<.005	<.08	<.009	.03	<.02	.08	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	.06	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
17...	<.01	<.005	<.08	<.009	.02	.06	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
SEP													
22...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flufen- acet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Flufe- nacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufos- sinate, water, fltrd 0.7u GF ug/L (62721)	Glypho- sate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Ipro- dione, water, fltrd, ug/L (61593)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<.1
JUL													
06...	<.029	<.013	<.024	<.016	--	--	--	<.003	--u	<.1	<.1	<.013	<.387
17...	<.029	<.013	<.024	<.016	--	--	--	<.003	<.003	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<.1
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<.1
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<.1
18...	<.029	<.013	<.024	<.016	<.02	<.02	.02	<.002	<.003	<.1	<.1	<.013	<.1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<.1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<.1
JUL													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
17...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
SEP													
22...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--u	<.013	--u	<.016	<.02	<.02	<.02	<.003	--u	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Isofen-phos, water, fltrd, ug/L (61594)	Mala-oxon, water, fltrd, ug/L (61652)	Mala-thion, water, fltrd, ug/L (39532)	Meta-laxyl, water, fltrd, ug/L (61596)	Methi-althion, water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF ug/L (82667)	Metola-chlor ESA, water, fltrd, 0.7u GF ug/L (61043)	Metola-chlor OA, water, fltrd, 0.7u GF ug/L (61044)	Metola-chlor, water, fltrd, ELISA, 0.7u GF ug/L (82694)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil, water, fltrd, ug/L (61599)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	.94	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	3.83	4.30	--	.489	<.006	<.008
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	--	--	--	.485	<.006	<.008
17...	<.003	--u	<.027	<.005	<.006	<.03	<.015	--	--	--	.438	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.12	.29	--	.288	--u	<.008
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	2.17	3.19	--	1.65	--u	<.008
14...	<.003	<.008	<.027	E.039	<.006	<.03	<.015	8.45	14.0	--	E210	--u	<.008
18...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	13.0	19.0	--	82.1	<.006	<.008
24...	<.003	<.008	<.730	<.005	<.006	<.03	<.015	8.36	17.0	--	84.7	<.006	<.008
JUN													
14...	<.003	<.008	<.360	<.005	<.006	<.03	<.015	12.0	29.0	--	20.1	<.006	<.008
JUL													
06...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	7.28	27.0	--	E27.3	<.006	<.008
17...	<.003	<.030	<.250c	<.005	<.006	<.03	<.015	13.0	29.0	--	33.8	<.006	<.008
23...	<.003	<.030	<.370	<.005	<.006	<.03	<.015	15.0	29.0	--	29.5	<.006	<.008
AUG													
05...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	7.44	7.16	--	4.38	<.006	<.008
19...	<.003	<.030	<.027	<.500	<.006	<.03	<.015	3.97	18.0	--	421	<.006	<.008
SEP													
22...	<.003	--u	<.027	<.005	<.006	<.03	<.015	5.42	12.9	--	20.7	--u	<.008
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.003	<.030	<.100	<.005	<.006	<.03	<.015	12.0	12.0	--	5.74	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	8.34	8.29	--	3.37	--u	<.008

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
 CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683) ug/L	Phorate oxon, water, fltrd (82666) ug/L	Phorate water fltrd (82664) ug/L	Phosmet oxon, water, fltrd (61668) ug/L	Phosmet water, fltrd (61601) ug/L	Prome- ton, water, fltrd (04037) ug/L	Prome- tryn, water, fltrd (04036) ug/L	Propy- zamide, water, fltrd (82676) ug/L	Propa- chlor ESA, water, fltrd (62766) ug/L	Propa- chlor OA, water, fltrd (62767) ug/L	Sima- zine, water, fltrd (04035) ug/L	Tebu- thiuron water fltrd (82670) ug/L	Ter- bufos oxon sulfone water, fltrd (61674) ug/L
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
JUL													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.022	<.10	<.011	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
MAY													
11...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
14...	<.022	<.10	<.011	--u	<.008	<.01	<.005	--u	<.05	<.02	--u	<.02	<.07
18...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	--u	<.02	<.07
24...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	.450	<.02	<.07
JUN													
14...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	.157	<.02	<.07
JUL													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	.064	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.080c	<.02	<.07
23...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<3.50	<.05	<.02	.081	<.02	<.07
AUG													
05...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	.083	<.02	<.07
19...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.250	<.02	<.07
SEP													
22...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.060	<.02	<.07
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	.186	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.090c	<.02	<.07













CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
 CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Time	Depth of well, feet below LSD (72008)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Hard- ness, water, mg/L as CaCO3 (00900)	Noncarb hard- ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	0810	5.0	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	1345	5.0	--	--	6.7	360	--	--	--	--	--	--	--
24...	1250	5.0	--	--	7.3	430	--	--	--	--	--	--	--
JUN													
14...	1120	5.0	--	--	7.2	380	--	--	--	--	--	--	--
JUL													
06...	1220	5.0	--	--	7.7	360	--	--	--	--	--	--	--
23...	1100	5.0	--	--	7.3	320	--	--	--	--	--	--	--
AUG													
05...	1240	5.0	--	--	8.0	270	--	--	--	--	--	--	--
19...	1400	5.0	--	--	7.7	276	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	1255	7.0	--	--	7.3	860	--	--	--	--	--	--	--
JUN													
14...	1125	7.0	--	--	8.2	1190	--	--	--	--	--	--	--
JUL													
06...	1225	7.0	--	--	8.0	1180	--	--	--	--	--	--	--
23...	1105	7.0	--	--	7.3	1160	--	--	--	--	--	--	--
AUG													
05...	1235	7.0	--	--	7.9	1000	--	--	--	--	--	--	--
19...	1405	7.0	--	--	7.5	305	--	--	--	--	--	--	--
SEP													
22...	1614	7.0	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	0815	12.0	--u	--u	--	--	160	--	46.2	11.7	5.31	.5	15.8
MAY													
11...	1355	12.0	--u	--u	7.2	380	160	--	44.2	12.0	4.84	.5	15.7
14...	1120	12.0	--u	--u	7.6	370	160	8	43.0	11.9	4.93	.6	16.1
24...	1300	12.0	--u	--u	7.3	420	170	9	48.0	12.9	5.93	.5	14.4
JUN													
14...	1130	12.0	--	--	7.3	570	250	55	68.0	19.4	6.29	.7	25.8
JUL													
23...	1110	12.0	--	--	7.1	490	220	16	61.2	17.3	5.83	.6	21.3
AUG													
05...	1230	12.0	--	--	7.3	346	230	19	60.9	19.1	6.20	.7	23.1
19...	1410	12.0	--	--	7.2	280	230	31	61.6	18.4	6.37	.6	21.1

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L as N (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	.15	.12	35.4	7.99
24...	--	--	--	--	--	--	--	--	--	.11	.09	37.3	8.42
JUN													
14...	--	--	--	--	--	--	--	--	--	.20	.15	40.3	9.10
JUL													
06...	--	--	--	--	--	--	--	--	--	.16	.13	39.1	8.84
23...	--	--	--	--	--	--	--	--	--	.11	.08	22.5	5.08
AUG													
05...	--	--	--	--	--	--	--	--	--	.11	.08	10.2	2.31
19...	--	--	--	--	--	--	--	--	--	.12	.10	2.21	.50
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--	--	--	--	--	--	--	--	--	.13	.10	34.6	7.83
JUN													
14...	--	--	--	--	--	--	--	--	--	.07	.06	30.5	6.90
JUL													
06...	--	--	--	--	--	--	--	--	--	.06	.05	27.7	6.25
23...	--	318@c	--	--	--	--	--	--	--	.07	.06	25.3	5.71
AUG													
05...	--	365@c	--	--	--	--	--	--	--	--	E.04n	23.2	5.25
19...	--	--	--	--	--	--	--	--	--	.05	.04	21.9	4.95
SEP													
22...	--	--	--	--	--	--	--	--	--	.28	.21	3.92	.89
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	17	--	<.02	5.03d	.4	32.4	43.8d	--	--	--	<.04	--	--
MAY													
11...	17	164@c	<.02	4.86	.4	31.7	41.7	256	.35	--	E.03n	--	--
14...	18	148@c	E.01n	4.94	.5	32.0	44.7	250	.34	--	<.04	--	--
24...	15	164@c	.02	4.50	.4	28.0	42.0	259	.35	.11	.09	--	--
JUN													
14...	18	194@c	.02	8.55	.5	36.7	100	386	.52	--	E.02n	--	--
JUL													
23...	17	208@c	<.02	6.63	.5	35.4	84.7	361	.49	--	E.03n	--	--
AUG													
05...	17	212@c	<.08	6.54	.5	40.4	84.4	371	.50	--	E.03n	--	--
19...	16	199@c	.04	5.70	.4	44.4	74.9	355	.48	--	E.02n	--	--

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd, 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd, 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	
MAY													
11...	8.00d	.039	.012	2.47	.81doc	10.9d	--	--	<.09	<.006	<.02	<.005	<.006
24...	8.44d	.069	.021	2.55	.83oc	11.3d	--	--	<.09	<.006	<.02	<.005	<.006
JUN													
14...	9.15d	.177	.054	3.02	.98doc	12.9d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	8.85d	.049	.015	2.85	.93oc	10.2d	--	--	<.09	<.006	--	<.005	<.006
23...	5.11d	.102	.031	2.71	.885d	7.21d	--	--	--	--	--	--	--
AUG													
05...	2.37	.197	.060	2.99	.97doc	4.33d	--	--	--	--	--	--	--
19...	.53	.105	.032	3.05	.99doc	<.03	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	7.86d	.122	.037	1.82	.59oc	10.9d	--	--	<.09	<.006	<.02	<.005	<.006
JUN													
14...	6.92d	.046	.014	3.20	1.04doc	9.34d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	6.26d	.026	.008	3.95	1.29doc	8.09d	--	--	<.09	<.006	<.02	<.005	<.006
23...	5.71d	.030	.009	5.31	1.73doc	8.50d	--	--	<.09	<.006	.04	<.005	<.006
AUG													
05...	5.26d	.043	.013	6.58	2.15doc	7.29d	--	--	<.09	<.006	<.02	<.005	<.006
19...	4.97d	.082	.025	6.96	2.27doc	6.82d	--	--	<.09	<.006	<.02	<.005	<.006
SEP													
22...	.92	.125	.038	1.41	.461d	2.43	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.06	--	<.008	2.35	.77oc	1.56	<6	E.6n	<.09	<.006	<.02	<.005	<.006
MAY													
11...	<.06	--	<.008	2.43	.79oc	1.69	<6	E.6n	<.09	<.006	<.02	<.005	<.006
14...	<.06	--	<.008	2.82	.92oc	1.59d	E4n	E.6n	<.09	<.006	<.02	<.005	<.006
24...	.47	--	E.005n	2.22	.72oc	2.22	28	501	<.09	<.006	<.02	<.005	<.006
JUN													
14...	.13	--	<.008	3.04	.99doc	2.14	<6	16.6	<.09	<.006	<.02	<.005	<.006
JUL													
23...	<.06	--	<.008	3.01	.98doc	2.30	E4n	1.1	<.09	<.006	<.02	<.005	<.006
AUG													
05...	<.06	--	<.008	3.20	1.04doc	1.91	E4n	E.5n	<.09	<.006	<.02	<.005	<.006
19...	<.06	--	<.008	2.83	.92oc	<.03	E4n	1.0	<.09	<.006	<.02	<.005	<.006

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water, fltrd, ug/L (61625)	4Chloro-2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd, 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd, 0.7u GF ug/L (61030)	Aceto-chlor SAA, water, fltrd, ug/L (62847)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA SA, water, fltrd, ug/L (62849)	Ala-chlor ESA, water, fltrd, 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd, 0.7u GF ug/L (61031)	Ala-chlor SAA, water, fltrd, ug/L (62848)	Ala-chlor, water, fltrd, ug/L (46342)	Amino-methyl-phos-phonic acid, wat flt ug/L (62649)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
24...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.3
JUL													
06...	<.004	<.004	<.006	--	--	--	<.006	--	--	--	--	<.005	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.004	<.004	<.006	<.02	.10	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	.21	.62	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.2
JUL													
06...	<.004	<.004	<.006	.20	.59	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
23...	<.004	<.004	<.006	.27	.23	.04	<.006	<.02	<.02	<.02	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.19	.08	.08	<.006	<.02	<.02	<.02	<.02	--u	--
19...	<.004	<.004	<.006	.25	.04	.10	<.006	<.02	<.02	<.02	<.02	--u	<.1
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.004	<.004	<.006	.03	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
MAY													
11...	<.004	<.004	<.006	.08	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.1
14...	<.004	<.004	<.006	.06	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	.2
24...	<.004	<.004	<.006	.09	.17	.09	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	.33	.21	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.1
JUL													
23...	<.004	<.004	<.006	.53	.23	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.34	.10	<.02	<.006	<.02	<.02	<.02	<.02	--u	--
19...	<.004	<.004	<.006	.58	.14	<.02	<.006	<.02	<.02	<.02	<.02	--u	.1

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
 CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Atra- zine, wat flt immuno- assay unadj. ug/L (99775)	Azin- phos- methyl water, fltrd, ug/L (39632)	Azin- phos- methyl water, fltrd, 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	
MAY													
11...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	.146	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	.09	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.075	<.012
AUG													
05...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
11...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
14...	--	<.007	<.02	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.029	<.012
JUL													
23...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
AUG													
05...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
 CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Diaz- inon, oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicro- tophos, water, fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- enamid water, fltrd, ug/L (61588)	Dimeth- oate, water, fltrd, 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flufen- acet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Flufe- nacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufos- sinate, water, fltrd 0.7u GF ug/L (62721)	Glypho- sate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Ipro- dione, water, fltrd, ug/L (61593)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	--	--	--	<.003	--u	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	--u	<.1	<.1	<.013	<.387
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	<.1	<.013	<.387

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Isofen- phos, water, fltrd, ug/L (61594)	Mala- oxon, water, fltrd, ug/L (61652)	Mala- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	--u	<.008	<.022
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.12	.14	.192	<.006	<.008	<.022
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	--	--	<.013	<.006	<.008	<.022
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.070	<.006	<.008	<.022
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022
23...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.11	.04	<.013	<.006	<.008	<.022
AUG													
05...	<.003	--u	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
19...	<.003	--u	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.025	--u	<.008	<.022
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.02	<.02	<.013	<.006	<.008	<.022
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.03	<.02	<.013	--u	<.008	<.022
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.03	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.10	.03	<.013	--u	<.008	<.022
JUL													
23...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.07	.04	<.013	<.006	<.008	<.022
AUG													
05...	<.003	--u	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
19...	<.003	--u	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propa- chlor OA, water, fltrd 0.7u GF ug/L (62767)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Ter- bufos sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
24...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
06...	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07	--u
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
06...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
23...	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
AUG													
05...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
19...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.10	<.011	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
MAY													
11...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
24...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
23...	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
AUG													
05...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
19...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02

CHEMICAL ANALYSES FROM NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SITES  
 CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY  
 VADOSE ZONE/SOIL—Continued

Date	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)
------	--	---	---

413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)

MAR 2004			
31...	--	--	--
MAY			
11...	--u	<.009	<.01
24...	--u	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
06...	--u	<.009	<.01
23...	--	--	--
AUG			
05...	--	--	--
19...	--	--	--

413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)

MAY 2004			
24...	--u	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
06...	--u	<.009	<.01
23...	<.01	<.009	<.01
AUG			
05...	--u	<.009	<.01
19...	--u	<.009	<.01
SEP			
22...	--	--	--

413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)

MAR 2004			
31...	<.01	<.009	<.01
MAY			
11...	--u	<.009	<.01
14...	<.01	<.009	<.01
24...	<.01	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
23...	<.01	<.009	<.01
AUG			
05...	--u	<.009	<.01
19...	--u	<.009	<.01

Remark codes used in this table:

< -- Less than  
 E -- Estimated value

Value qualifier codes used in this table:

@ -- Holding time exceeded  
 c -- See laboratory comment  
 d -- Diluted sample: method hi range exceeded  
 i -- Result may be affected by interference  
 m -- Value is highly variable by this method  
 n -- Below the LRL and above the LT-MDL  
 o -- Result determined by alternate method

Null value qualifier codes used in this table:

o -- Insufficient amount of water  
 u -- Unable to determine-matrix interference