

Table 1. Dry, wet, and total deposition of several N and S species within Bandelier National Monument, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	13.5	0.00	13.5	0.5%
NO ₂	128.0	0.00	128.0	4.8%
NO ₃	0.9	2.1	3.0	0.1%
N ₂ O ₅	14.5	2.9	17.4	0.6%
HNO ₃	912.3	347.0	1259.3	46.8%
HNO ₂	1.0	0.00	1.0	0.04%
Peroxyacetyl Nitrate (PAN)	41.9	0.01	41.9	1.6%
PANx (MPAN, PPN, OPAN) ^c	16.9	0.00	16.9	0.6%
Organic Nitrate Groups (NTR)	35.6	38.5	74.1	2.8%
Peroxynitric Acid (PNA)	0.6	0.6	1.2	0.05%
NH ₃	303.8	24.8	328.6	12.2%
Particulate NO ₃	17.0	137.7	154.7	5.7%
Particulate NH ₄	54.6	599.3	653.9	24.3%
Total N Deposition	1540.6	1153.0	2693.5	100.0%
SO ₂	156.1	1.0	157.1	11.5%
H ₂ SO ₄	0.8	0.0	0.9	0.1%
Particulate SO ₄	86.5	1118.2	1204.8	88.4%
Total S Deposition	243.5	1119.2	1362.7	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 2. Dry, wet, and total deposition of several N and S species within Bosque del Apache, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	12.8	0.00	12.8	0.3%
NO ₂	154.3	0.00	154.3	4.0%
NO ₃	0.9	2.0	2.9	0.1%
N ₂ O ₅	12.2	1.0	13.3	0.3%
HNO ₃	802.0	293.3	1095.3	28.4%
HNO ₂	1.2	0.00	1.2	0.03%
Peroxyacetyl Nitrate (PAN)	39.8	0.01	39.8	1.0%
PANx (MPAN, PPN, OPAN) ^c	16.3	0.00	16.3	0.4%
Organic Nitrate Groups (NTR)	30.6	40.6	71.3	1.9%
Peroxynitric Acid (PNA)	0.6	0.3	0.9	0.02%
NH ₃	1771.0	111.6	1882.6	48.9%
Particulate NO ₃	16.5	71.7	88.2	2.3%
Particulate NH ₄	59.4	412.3	471.7	12.2%
Total N Deposition	2917.7	932.9	3850.6	100.0%
SO ₂	145.2	1.2	146.5	15.5%
H ₂ SO ₄	1.1	0.0	1.1	0.1%
Particulate SO ₄	78.7	716.4	795.1	84.3%
Total S Deposition	225.0	717.6	942.7	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 3. Dry, wet, and total deposition of several N and S species within the Gila Wilderness Area, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	3.2	0.00	3.2	0.2%
NO ₂	42.3	0.00	42.3	2.0%
NO ₃	0.5	0.7	1.2	0.1%
N ₂ O ₅	5.1	0.5	5.6	0.3%
HNO ₃	598.2	336.9	935.1	44.0%
HNO ₂	0.2	0.00	0.2	0.01%
Peroxyacetyl Nitrate (PAN)	39.0	0.01	39.0	1.8%
PANx (MPAN, PPN, OPAN) ^c	16.4	0.01	16.4	0.8%
Organic Nitrate Groups (NTR)	30.5	67.0	97.5	4.6%
Peroxynitric Acid (PNA)	0.7	0.6	1.3	0.06%
NH ₃	159.7	16.1	175.8	8.3%
Particulate NO ₃	19.3	120.5	139.8	6.6%
Particulate NH ₄	60.2	605.2	665.4	31.3%
Total N Deposition	975.3	1147.6	2122.8	100.0%
SO ₂	156.1	1.0	157.1	11.5%
H ₂ SO ₄	0.8	0.0	0.9	0.1%
Particulate SO ₄	86.5	1118.2	1204.8	88.4%
Total S Deposition	243.5	1119.2	1362.7	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 4. Dry, wet, and total deposition of several N and S species within Salt Creek Wilderness Area, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	19.3	0.00	19.3	0.2%
NO ₂	219.0	0.00	219.0	1.9%
NO ₃	1.0	2.1	3.2	0.0%
N ₂ O ₅	7.0	1.7	8.7	0.1%
HNO ₃	685.2	224.1	909.3	7.9%
HNO ₂	1.2	0.00	1.2	0.01%
Peroxyacetyl Nitrate (PAN)	49.0	0.01	49.0	0.4%
PANx (MPAN, PPN, OPAN) ^c	22.1	0.00	22.1	0.2%
Organic Nitrate Groups (NTR)	45.8	49.8	95.6	0.8%
Peroxynitric Acid (PNA)	0.5	0.3	0.8	0.01%
NH ₃	9079.1	425.5	9504.6	83.0%
Particulate NO ₃	16.2	101.9	118.1	1.0%
Particulate NH ₄	67.2	438.8	506.0	4.4%
Total N Deposition	10212.5	1244.3	11456.8	100.0%
SO ₂	223.5	2.7	226.2	22.4%
H ₂ SO ₄	1.1	0.0	1.1	0.1%
Particulate SO ₄	77.6	704.0	781.6	77.5%
Total S Deposition	302.2	706.7	1008.9	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 5. Dry, wet, and total deposition of several N and S species within San Andres National Wildlife Refuge, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	6.0	0.00	6.0	0.2%
NO ₂	110.9	0.00	110.9	3.9%
NO ₃	3.3	2.5	5.8	0.2%
N ₂ O ₅	18.2	1.3	19.5	0.7%
HNO ₃	780.5	294.1	1074.6	37.7%
HNO ₂	0.7	0.00	0.7	0.03%
Peroxyacetyl Nitrate (PAN)	39.3	0.01	39.3	1.4%
PANx (MPAN, PPN, OPAN) ^c	16.8	0.01	16.8	0.6%
Organic Nitrate Groups (NTR)	33.9	44.1	78.0	2.7%
Peroxynitric Acid (PNA)	0.5	0.4	0.8	0.03%
NH ₃	927.1	83.5	1010.7	35.4%
Particulate NO ₃	21.0	56.0	77.1	2.7%
Particulate NH ₄	69.5	343.9	413.4	14.5%
Total N Deposition	2027.9	825.8	2853.7	100.0%
SO ₂	194.8	1.8	196.6	20.4%
H ₂ SO ₄	1.4	0.0	1.4	0.1%
Particulate SO ₄	92.7	674.5	767.1	79.5%
Total S Deposition	288.9	676.3	965.2	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 6. Dry, wet, and total deposition of several N and S species within San Pedro Parks Wilderness Area in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	17.6	0.00	17.6	0.5%
NO ₂	179.6	0.00	179.6	5.3%
NO ₃	1.4	0.4	1.8	0.1%
N ₂ O ₅	53.9	0.9	54.8	1.6%
HNO ₃	1212.6	368.2	1580.9	46.7%
HNO ₂	0.9	0.00	0.9	0.03%
Peroxyacetyl Nitrate (PAN)	51.0	0.01	51.0	1.5%
PANx (MPAN, PPN, OPAN) ^c	20.3	0.00	20.3	0.6%
Organic Nitrate Groups (NTR)	48.0	22.7	70.7	2.1%
Peroxynitric Acid (PNA)	0.9	0.4	1.3	0.04%
NH ₃	373.6	17.3	390.8	11.5%
Particulate NO ₃	20.3	211.7	232.0	6.9%
Particulate NH ₄	59.9	723.9	783.8	23.2%
Total N Deposition	2040.0	1345.6	3385.5	100.0%
SO ₂	188.1	0.3	188.4	12.4%
H ₂ SO ₄	1.2	0.0	1.2	0.1%
Particulate SO ₄	79.2	1253.3	1332.5	87.5%
Total S Deposition	268.5	1253.6	1522.1	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 7. Dry, wet, and total deposition of several N and S species within White Mountain Wilderness Area, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	5.8	0.00	5.8	0.2%
NO ₂	144.2	0.00	144.2	4.0%
NO ₃	2.1	0.8	2.9	0.1%
N ₂ O ₅	16.5	0.6	17.1	0.5%
HNO ₃	895.1	304.7	1199.8	33.5%
HNO ₂	0.7	0.00	0.7	0.02%
Peroxyacetyl Nitrate (PAN)	56.4	0.01	56.4	1.6%
PANx (MPAN, PPN, OPAN) ^c	24.2	0.01	24.2	0.7%
Organic Nitrate Groups (NTR)	48.0	56.5	104.5	2.9%
Peroxynitric Acid (PNA)	0.9	0.5	1.4	0.04%
NH ₃	1162.0	92.9	1254.9	35.1%
Particulate NO ₃	32.8	99.1	132.0	3.7%
Particulate NH ₄	112.3	521.5	633.8	17.7%
Total N Deposition	2501.0	1076.6	3577.6	100.0%
SO ₂	214.3	0.8	215.2	17.9%
H ₂ SO ₄	1.0	0.0	1.0	0.1%
Particulate SO ₄	148.8	836.4	985.2	82.0%
Total S Deposition	364.1	837.3	1201.4	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 8. Dry, wet, and total deposition of several N and S species within Wheeler Peak Wilderness Area, NM in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	7.3	0.00	7.3	0.2%
NO ₂	69.6	0.00	69.6	2.3%
NO ₃	0.8	0.6	1.3	0.0%
N ₂ O ₅	17.5	0.6	18.1	0.6%
HNO ₃	859.6	473.9	1333.5	43.1%
HNO ₂	0.6	0.00	0.6	0.02%
Peroxyacetyl Nitrate (PAN)	48.7	0.01	48.7	1.6%
PANx (MPAN, PPN, OPAN) ^c	18.9	0.00	18.9	0.6%
Organic Nitrate Groups (NTR)	48.2	57.7	106.0	3.4%
Peroxynitric Acid (PNA)	1.0	0.8	1.8	0.06%
NH ₃	169.4	21.5	190.9	6.2%
Particulate NO ₃	18.6	247.4	266.0	8.6%
Particulate NH ₄	56.0	973.2	1029.3	33.3%
Total N Deposition	1316.3	1775.7	3092.0	100.0%
SO ₂	95.9	0.3	96.2	5.6%
H ₂ SO ₄	0.7	0.0	0.7	0.0%
Particulate SO ₄	76.2	1544.4	1620.6	94.4%
Total S Deposition	172.7	1544.7	1717.4	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 9. Dry, wet, and total deposition of several N and S species within Great Sand Dunes National Park, CO in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	5.1	0.00	5.1	0.2%
NO ₂	50.8	0.00	50.8	2.0%
NO ₃	1.1	0.9	2.0	0.1%
N ₂ O ₅	12.9	0.8	13.7	0.5%
HNO ₃	656.7	335.1	991.8	39.2%
HNO ₂	0.4	0.00	0.4	0.02%
Peroxyacetyl Nitrate (PAN)	42.2	0.01	42.2	1.7%
PANx (MPAN, PPN, OPAN) ^c	16.0	0.00	16.0	0.6%
Organic Nitrate Groups (NTR)	40.7	43.5	84.2	3.3%
Peroxynitric Acid (PNA)	0.9	0.5	1.4	0.06%
NH ₃	387.6	52.1	439.6	17.4%
Particulate NO ₃	15.0	155.9	171.0	6.8%
Particulate NH ₄	51.8	662.5	714.3	28.2%
Total N Deposition	1281.3	1251.3	2532.6	100.0%
SO ₂	79.7	0.5	80.1	7.3%
H ₂ SO ₄	0.4	0.0	0.4	0.0%
Particulate SO ₄	66.1	947.8	1013.9	92.6%
Total S Deposition	146.2	948.3	1094.4	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 10. Dry, wet, and total deposition of several N and S species within Weminuche Wilderness Area, CO in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	6.1	0.00	6.1	0.2%
NO ₂	61.6	0.00	61.6	2.5%
NO ₃	0.4	0.3	0.8	0.0%
N ₂ O ₅	10.4	0.5	11.0	0.4%
HNO ₃	677.4	409.0	1086.4	44.4%
HNO ₂	0.5	0.00	0.5	0.02%
Peroxyacetyl Nitrate (PAN)	40.8	0.01	40.8	1.7%
PANx (MPAN, PPN, OPAN) ^c	15.3	0.00	15.3	0.6%
Organic Nitrate Groups (NTR)	48.2	20.4	68.6	2.8%
Peroxynitric Acid (PNA)	1.0	0.2	1.2	0.05%
NH ₃	131.1	10.2	141.2	5.8%
Particulate NO ₃	17.2	236.3	253.5	10.4%
Particulate NH ₄	51.5	707.2	758.7	31.0%
Total N Deposition	1061.3	1384.1	2445.5	100.0%
SO ₂	75.3	0.2	75.5	5.5%
H ₂ SO ₄	0.5	0.0	0.5	0.0%
Particulate SO ₄	70.7	1215.8	1286.5	94.4%
Total S Deposition	146.5	1215.9	1362.4	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 11. Dry, wet, and total deposition of several N and S species within Mesa Verde National Park, CO in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	17.9	0.00	17.9	0.5%
NO ₂	203.0	0.00	203.0	6.0%
NO ₃	1.9	2.1	4.0	0.1%
N ₂ O ₅	35.5	7.1	42.6	1.3%
HNO ₃	1334.5	482.6	1817.1	54.1%
HNO ₂	1.1	0.00	1.1	0.03%
Peroxyacetyl Nitrate (PAN)	46.7	0.00	46.7	1.4%
PANx (MPAN, PPN, OPAN) ^c	17.9	0.00	17.9	0.5%
Organic Nitrate Groups (NTR)	34.7	21.4	56.1	1.7%
Peroxynitric Acid (PNA)	0.7	0.3	1.0	0.03%
NH ₃	305.2	23.2	328.4	9.8%
Particulate NO ₃	19.9	181.6	201.5	6.0%
Particulate NH ₄	61.6	560.0	621.6	18.5%
Total N Deposition	2080.8	1278.2	3359.0	100.0%
SO ₂	177.2	2.6	179.8	14.7%
H ₂ SO ₄	1.2	0.0	1.2	0.1%
Particulate SO ₄	80.1	960.0	1040.0	85.2%
Total S Deposition	258.4	962.6	1221.0	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 12. Dry, wet, and total deposition of several N and S species within Chiricahua National Monument, AZ in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	5.3	0.00	5.3	0.1%
NO ₂	82.0	0.00	82.0	2.3%
NO ₃	2.4	2.1	4.4	0.1%
N ₂ O ₅	11.4	1.5	12.9	0.4%
HNO ₃	781.4	624.7	1406.1	39.1%
HNO ₂	0.5	0.00	0.5	0.01%
Peroxyacetyl Nitrate (PAN)	41.9	0.02	41.9	1.2%
PANx (MPAN, PPN, OPAN) ^c	17.8	0.01	17.8	0.5%
Organic Nitrate Groups (NTR)	38.6	145.0	183.6	5.1%
Peroxynitric Acid (PNA)	0.6	0.8	1.4	0.04%
NH ₃	384.6	80.1	464.7	12.9%
Particulate NO ₃	21.0	156.3	177.2	4.9%
Particulate NH ₄	75.0	1119.9	1194.9	33.3%
Total N Deposition	1462.4	2130.3	3592.7	100.0%
SO ₂	275.2	3.2	278.3	12.0%
H ₂ SO ₄	1.3	0.1	1.3	0.1%
Particulate SO ₄	109.5	1934.7	2044.2	88.0%
Total S Deposition	386.0	1937.9	2323.9	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 13. Dry, wet, and total deposition of several N and S species within Petrified Forest National Park, AZ in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	26.0	0.00	26.0	1.2%
NO ₂	246.6	0.00	246.6	11.7%
NO ₃	1.7	1.4	3.0	0.1%
N ₂ O ₅	23.0	2.2	25.2	1.2%
HNO ₃	891.8	171.7	1063.5	50.4%
HNO ₂	1.9	0.00	1.9	0.09%
Peroxyacetyl Nitrate (PAN)	39.4	0.00	39.4	1.9%
PANx (MPAN, PPN, OPAN) ^c	15.7	0.00	15.7	0.7%
Organic Nitrate Groups (NTR)	32.6	18.1	50.7	2.4%
Peroxynitric Acid (PNA)	0.5	0.2	0.7	0.03%
NH ₃	248.4	14.5	262.9	12.5%
Particulate NO ₃	15.4	69.5	84.9	4.0%
Particulate NH ₄	49.7	241.2	290.9	13.8%
Total N Deposition	1592.9	518.8	2111.7	100.0%
SO ₂	220.7	1.9	222.6	28.7%
H ₂ SO ₄	1.7	0.0	1.7	0.2%
Particulate SO ₄	68.8	482.7	551.5	71.1%
Total S Deposition	291.2	484.6	775.8	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 14. Dry, wet, and total deposition of several N and S species within Big Bend National Park, TX in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	2.8	0.00	2.8	0.1%
NO ₂	50.5	0.00	50.5	2.4%
NO ₃	1.2	1.8	3.1	0.1%
N ₂ O ₅	2.8	0.9	3.7	0.2%
HNO ₃	762.2	394.1	1156.3	55.4%
HNO ₂	0.1	0.00	0.1	0.01%
Peroxyacetyl Nitrate (PAN)	36.3	0.02	36.3	1.7%
PANx (MPAN, PPN, OPAN) ^c	17.5	0.01	17.5	0.8%
Organic Nitrate Groups (NTR)	40.8	101.7	142.5	6.8%
Peroxynitric Acid (PNA)	0.4	0.6	1.0	0.05%
NH ₃	146.7	11.0	157.6	7.5%
Particulate NO ₃	18.2	58.3	76.5	3.7%
Particulate NH ₄	78.0	362.8	440.8	21.1%
Total N Deposition	1157.5	931.2	2088.7	100.0%
SO ₂	288.1	4.3	292.4	18.4%
H ₂ SO ₄	1.7	0.1	1.8	0.1%
Particulate SO ₄	119.2	1175.8	1295.0	81.5%
Total S Deposition	409.0	1180.2	1589.1	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 15. Dry, wet, and total deposition of several N and S species within Guadalupe Mountains National Park, TX in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	9.4	0.00	9.4	0.4%
NO ₂	148.5	0.00	148.5	6.5%
NO ₃	3.6	0.5	4.1	0.2%
N ₂ O ₅	30.3	0.3	30.6	1.3%
HNO ₃	1066.5	136.2	1202.7	52.9%
HNO ₂	0.7	0.00	0.7	0.03%
Peroxyacetyl Nitrate (PAN)	49.1	0.01	49.1	2.2%
PANx (MPAN, PPN, OPAN) ^c	22.1	0.00	22.1	1.0%
Organic Nitrate Groups (NTR)	46.7	36.1	82.8	3.6%
Peroxynitric Acid (PNA)	0.5	0.3	0.8	0.04%
NH ₃	335.5	7.1	342.6	15.1%
Particulate NO ₃	23.2	41.3	64.5	2.8%
Particulate NH ₄	86.3	230.7	317.0	13.9%
Total N Deposition	1822.4	452.5	2275.0	100.0%
SO ₂	503.3	1.3	504.5	45.3%
H ₂ SO ₄	3.1	0.0	3.1	0.3%
Particulate SO ₄	127.9	477.2	605.1	54.4%
Total S Deposition	634.3	478.4	1112.7	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 16. Dry, wet, and total deposition of several N and S species within Cherokee National, OK in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	43.1	0.00	43.1	0.5%
NO ₂	635.3	0.00	635.3	7.2%
NO ₃	2.7	7.2	9.8	0.1%
N ₂ O ₅	41.9	10.2	52.1	0.6%
HNO ₃	1789.0	1239.0	3028.0	34.5%
HNO ₂	3.9	0.01	3.9	0.04%
Peroxyacetyl Nitrate (PAN)	143.0	0.06	143.0	1.6%
PANx (MPAN, PPN, OPAN) ^c	67.9	0.03	67.9	0.8%
Organic Nitrate Groups (NTR)	162.6	355.7	518.3	5.9%
Peroxynitric Acid (PNA)	0.6	1.3	2.0	0.02%
NH ₃	1985.1	286.2	2271.2	25.9%
Particulate NO ₃	62.6	294.2	356.8	4.1%
Particulate NH ₄	196.9	1456.3	1653.2	18.8%
Total N Deposition	5134.6	3650.3	8784.9	100.0%
SO ₂	1578.3	33.3	1611.6	33.3%
H ₂ SO ₄	5.7	0.1	5.9	0.1%
Particulate SO ₄	183.4	3043.4	3226.9	66.6%
Total S Deposition	1767.5	3076.9	4844.3	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 17. Dry, wet, and total deposition of several N and S species within Wichita Mountains, OK in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	21.8	0.00	21.8	0.4%
NO ₂	399.8	0.00	399.8	6.8%
NO ₃	5.2	2.6	7.9	0.1%
N ₂ O ₅	46.0	3.5	49.5	0.8%
HNO ₃	1606.5	534.7	2141.2	36.2%
HNO ₂	2.2	0.00	2.2	0.04%
Peroxyacetyl Nitrate (PAN)	120.3	0.02	120.3	2.0%
PANx (MPAN, PPN, OPAN) ^c	56.2	0.01	56.2	1.0%
Organic Nitrate Groups (NTR)	129.9	140.5	270.4	4.6%
Peroxynitric Acid (PNA)	0.7	0.7	1.4	0.02%
NH ₃	1417.4	133.6	1551.0	26.2%
Particulate NO ₃	42.0	213.1	255.2	4.3%
Particulate NH ₄	154.0	884.6	1038.6	17.6%
Total N Deposition	4002.1	1913.5	5915.6	100.0%
SO ₂	552.9	7.6	560.5	24.0%
H ₂ SO ₄	1.9	0.0	2.0	0.1%
Particulate SO ₄	156.7	1615.5	1772.2	75.9%
Total S Deposition	711.5	1623.2	2334.7	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 18. Dry, wet, and total deposition of several N and S species within Sac and Fox Nation, OK in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	31.4	0.00	31.4	0.3%
NO ₂	546.3	0.00	546.3	5.7%
NO ₃	2.2	5.2	7.4	0.1%
N ₂ O ₅	56.8	6.8	63.6	0.7%
HNO ₃	1503.2	1169.1	2672.4	27.9%
HNO ₂	3.9	0.00	3.9	0.04%
Peroxyacetyl Nitrate (PAN)	126.9	0.06	127.0	1.3%
PANx (MPAN, PPN, OPAN) ^c	58.1	0.03	58.1	0.6%
Organic Nitrate Groups (NTR)	144.1	288.4	432.5	4.5%
Peroxynitric Acid (PNA)	0.6	0.9	1.5	0.02%
NH ₃	2785.5	376.8	3162.3	33.0%
Particulate NO ₃	113.8	405.0	518.9	5.4%
Particulate NH ₄	260.7	1701.2	1961.9	20.5%
Total N Deposition	5633.4	3953.6	9587.1	100.0%
SO ₂	1614.6	24.9	1639.5	33.9%
H ₂ SO ₄	5.2	0.2	5.3	0.1%
Particulate SO ₄	194.8	3002.8	3197.5	66.0%
Total S Deposition	1814.5	3027.9	4842.4	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates

Table 19. Dry, wet, and total deposition of several N and S species within Tall Grass Prairie National Preserve, KS in 2008. Adopted from ENVIRON International Corporation, Alpine Geophysics, LLC and University of North Carolina, 2013.

Parameter	Deposition (g/ha) ^a			Proportion of Total Deposition ^b
	Dry	Wet	Dry + Wet	
NO	31.1	0.00	31.1	0.3%
NO ₂	476.5	0.00	476.5	5.3%
NO ₃	2.4	7.7	10.1	0.1%
N ₂ O ₅	47.7	11.4	59.1	0.7%
HNO ₃	1519.8	1321.1	2840.9	31.3%
HNO ₂	3.4	0.01	3.4	0.04%
Peroxyacetyl Nitrate (PAN)	138.4	0.06	138.4	1.5%
PANx (MPAN, PPN, OPAN) ^c	63.1	0.03	63.1	0.7%
Organic Nitrate Groups (NTR)	166.7	339.7	506.4	5.6%
Peroxynitric Acid (PNA)	0.7	1.3	2.0	0.02%
NH ₃	2211.2	464.4	2675.6	29.5%
Particulate NO ₃	71.8	349.4	421.2	4.6%
Particulate NH ₄	192.7	1645.8	1838.5	20.3%
Total N Deposition	4925.5	4140.9	9066.4	100.0%
SO ₂	1052.1	26.9	1078.9	27.3%
H ₂ SO ₄	2.9	0.1	3.0	0.1%
Particulate SO ₄	167.2	2708.1	2875.3	72.7%
Total S Deposition	1222.1	2735.1	3957.2	100.0%

a Represents either g-N/ha or g-S/ha depending on parameter

b Proportion of Dry+Wet N deposition to total N deposition

c PANx: Represents higher order oxidized peroxyacyl nitrates