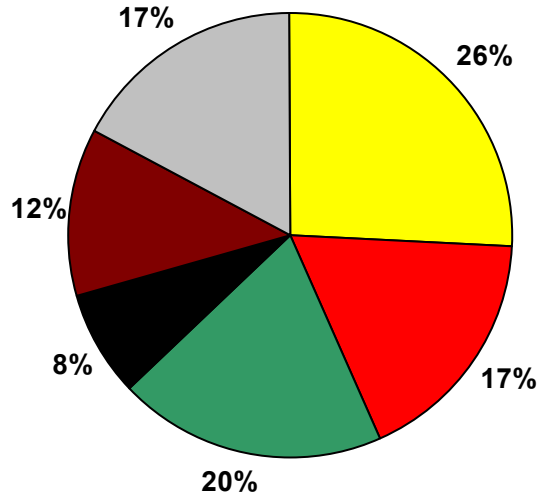


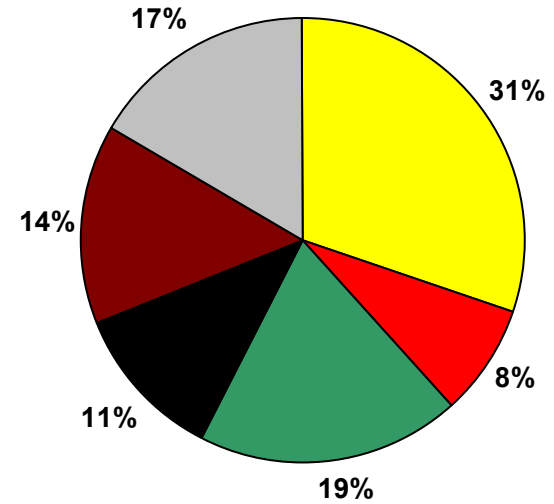
MONITORING DATA

**Saguaro National Park - East, AZ
2002 Reconstructed Extinction
SAGU1 Monitoring Data (every third day)**

20% Worst Visibility Days
Aerosol Extinction* = 37 Mm-1 (26 to 81 Mm-1)

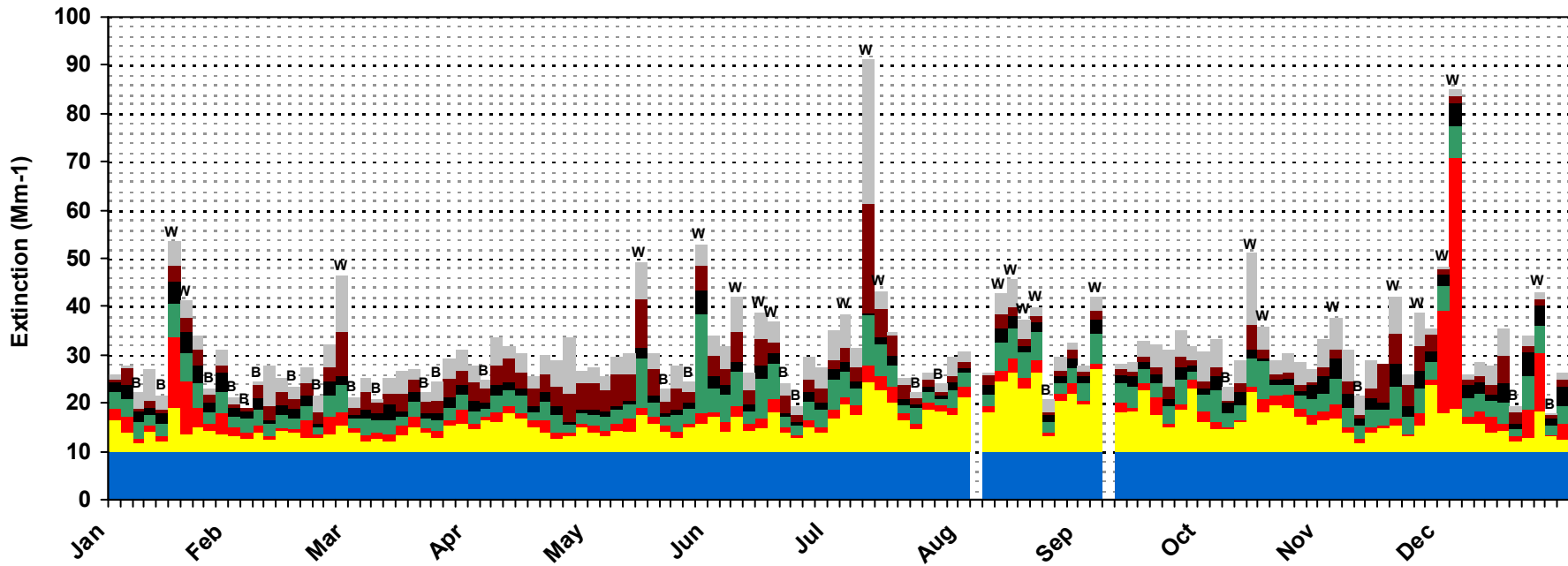


20% Best Visibility Days
Aerosol Extinction* = 12 Mm-1 (8 to 15 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

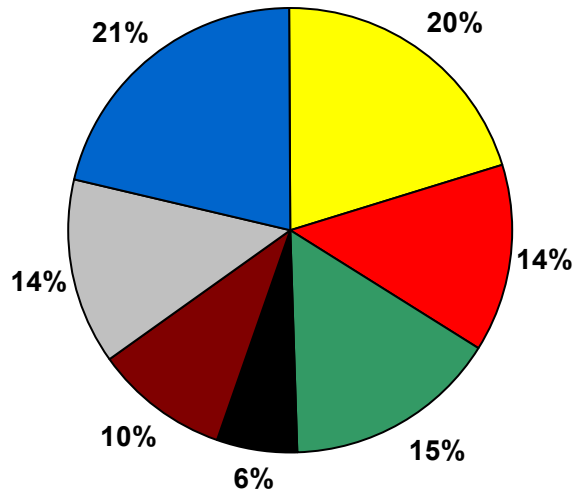
*Excludes Rayleigh Extinction



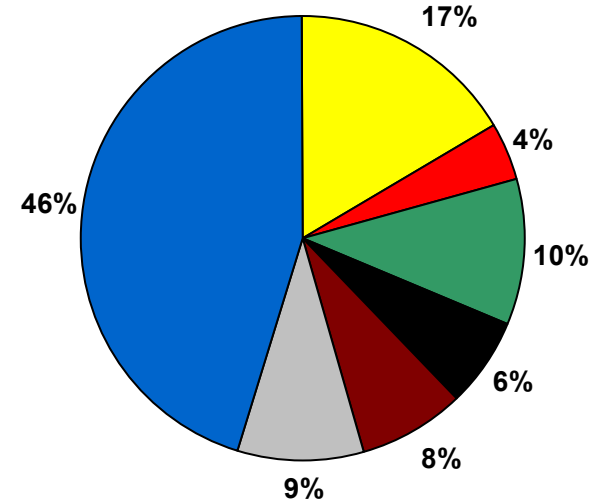
MONITORING DATA

**Saguaro National Park - East, AZ
2002 Reconstructed Extinction
SAGU1 Monitoring Data (every third day)**

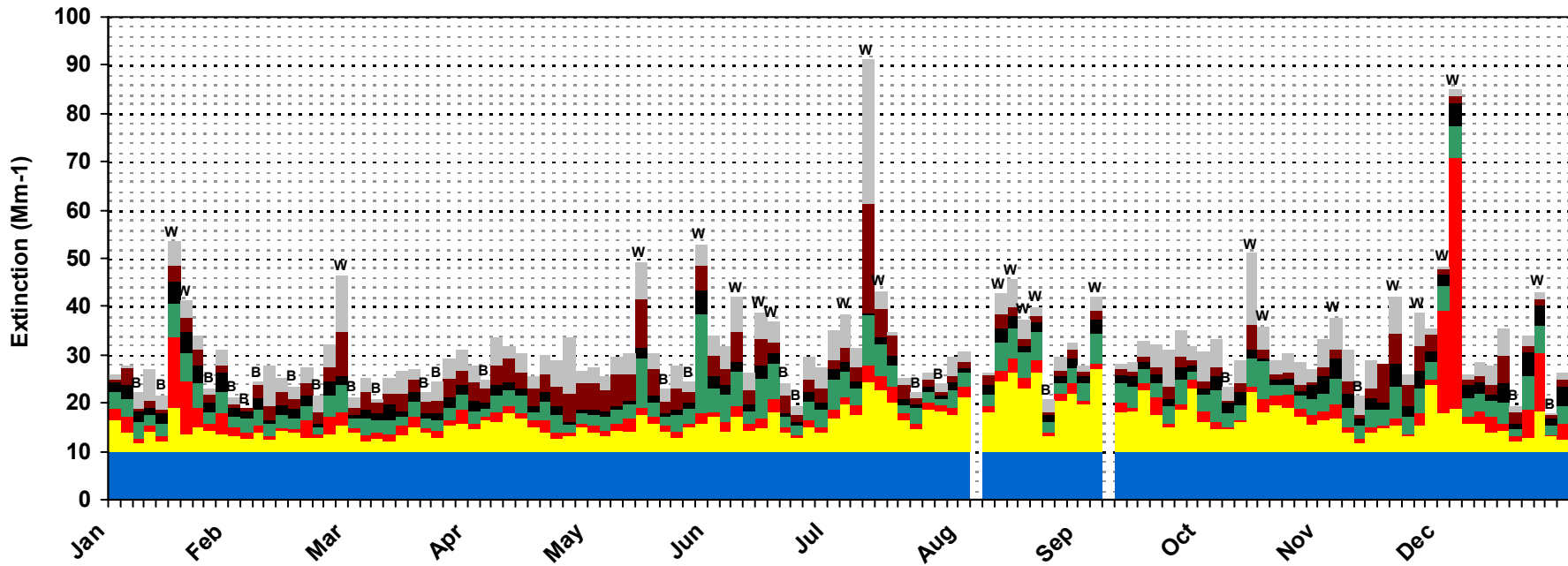
20% Worst Visibility Days
Total Extinction = 47 Mm-1 (36 to 91 Mm-1)



20% Best Visibility Days
Total Extinction = 22 Mm-1 (18 to 25 Mm-1)



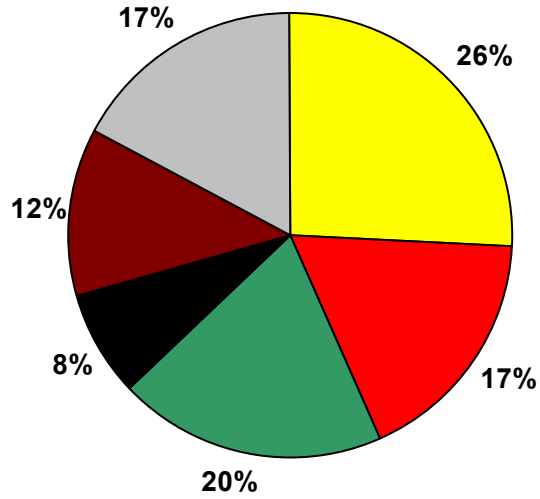
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



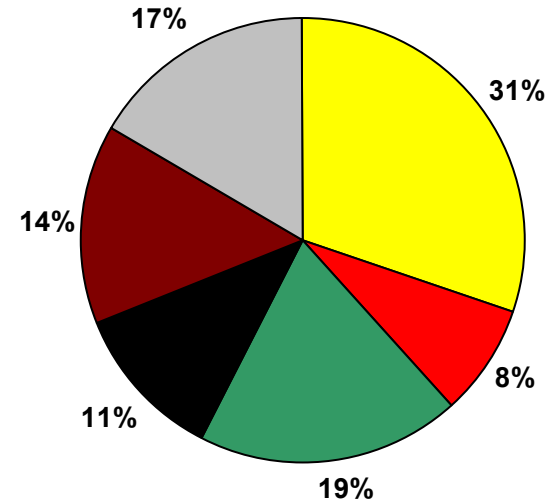
MONITORING DATA

**Saguaro National Park - East, AZ
2002 Reconstructed Extinction
SAGU1 Monitoring Data (every third day)**

20% Worst Visibility Days
Aerosol Extinction* = 37 Mm-1 (26 to 81 Mm-1)

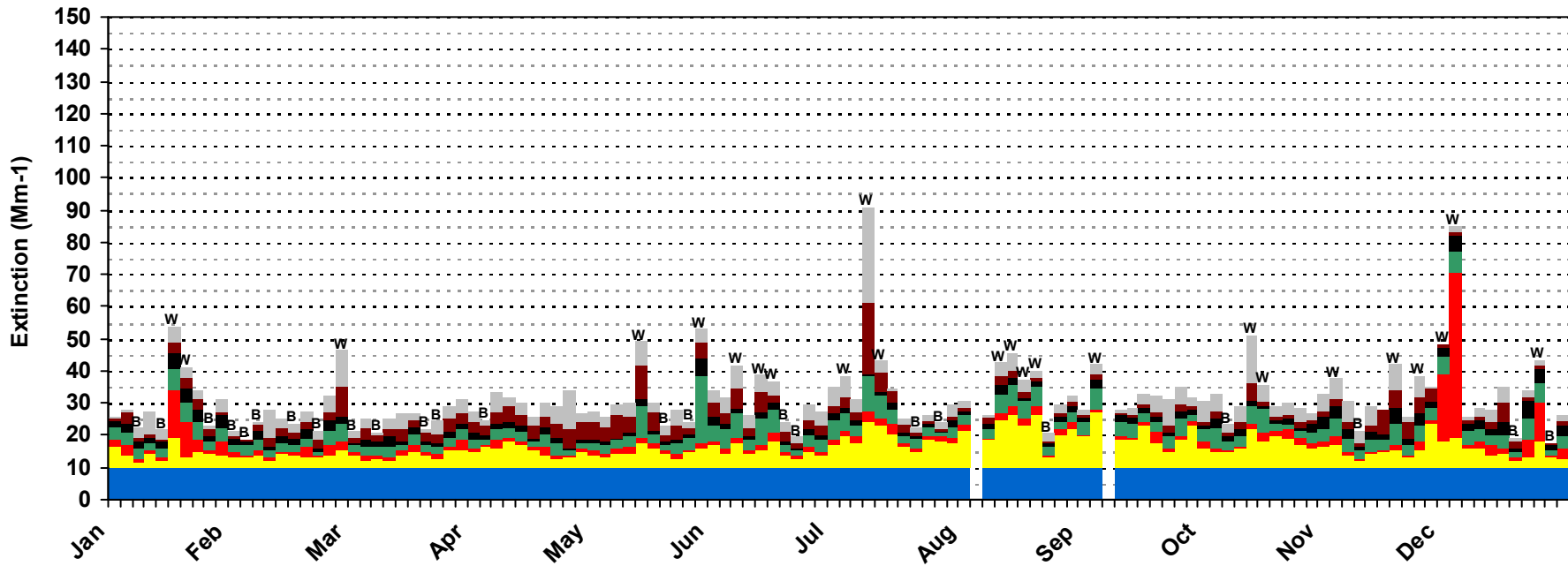


20% Best Visibility Days
Aerosol Extinction* = 12 Mm-1 (8 to 15 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

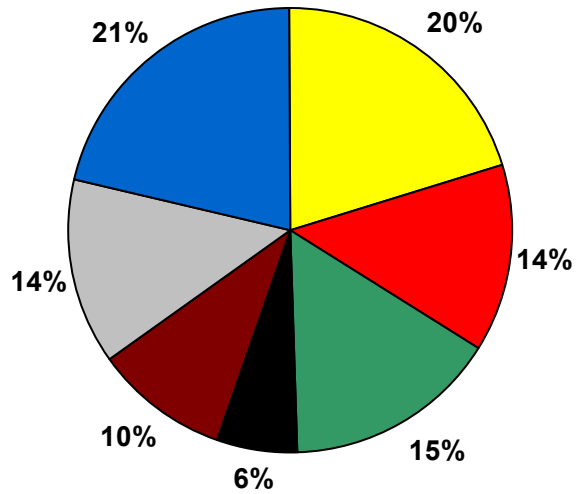
*Excludes Rayleigh Extinction



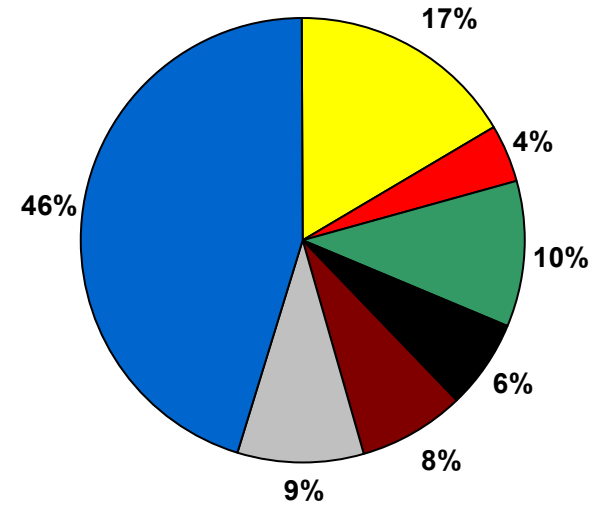
MONITORING DATA

**Saguaro National Park - East, AZ
2002 Reconstructed Extinction
SAGU1 Monitoring Data (every third day)**

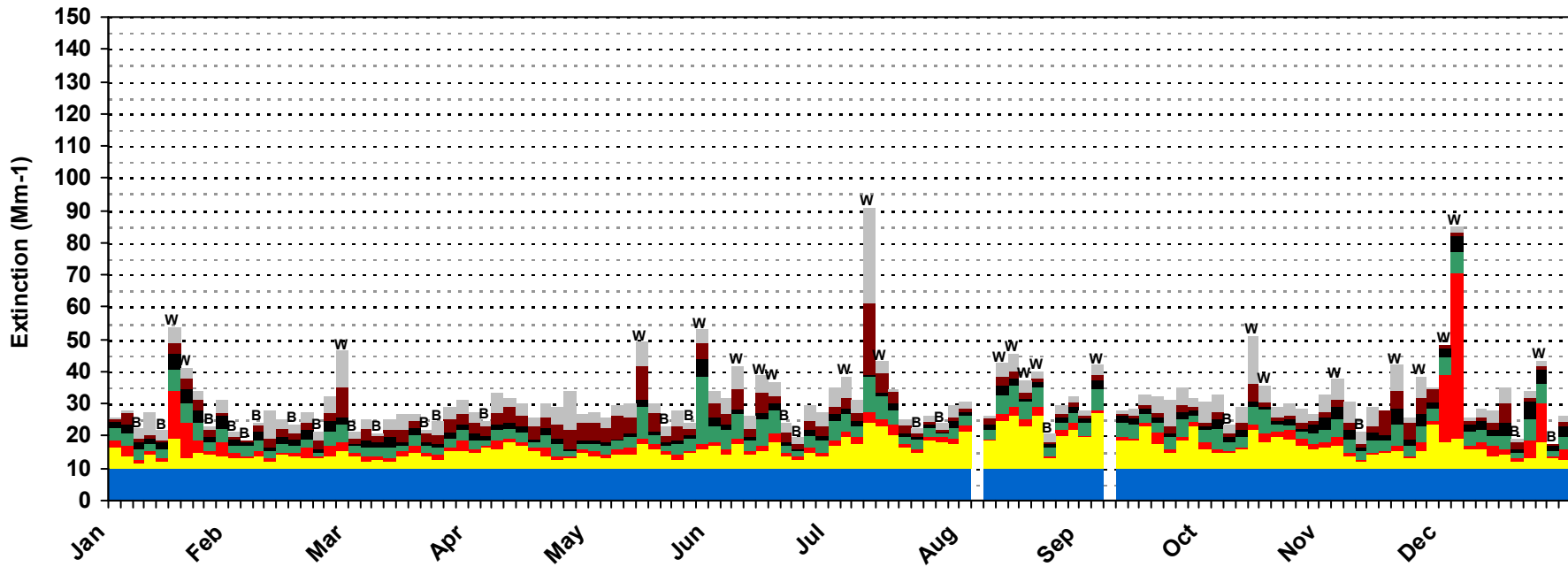
20% Worst Visibility Days
Total Extinction = 47 Mm-1 (36 to 91 Mm-1)



20% Best Visibility Days
Total Extinction = 22 Mm-1 (18 to 25 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



MONITORING DATA

Saguaro National Park - East, AZ 2002 Reconstructed Extinction Values SAGU1 Monitoring Data (every third day)

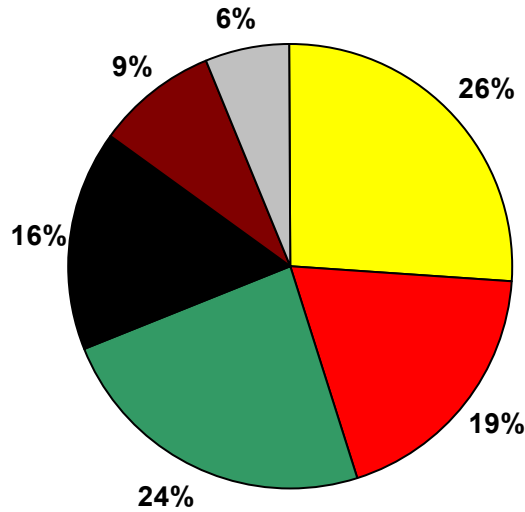
20% Worst Visibility Days			
	Average (Mm-1)	Minimum (Mm-1)	Maximum (Mm-1)
Total Extinction:	46.7 (15.4 dv)	35.8 (12.8 dv)	91.1 (22.1 dv)
Aerosol Extinction*:	36.7	25.8	81.1
	Average (Mm-1)	% of Tot. Extinction	% of Aer. Extinction
Ammonium Sulfate:	9.5	20%	26%
Ammonium Nitrate:	6.4	14%	17%
Organic Material:	7.2	15%	20%
Elemental Carbon:	2.8	6%	8%
Soil:	4.5	10%	12%
Coarse Material:	6.3	13%	17%
Rayleigh:	10.0	21%	N/A
20% Best Visibility Days			
	Average (Mm-1)	Minimum (Mm-1)	Maximum (Mm-1)
Total Extinction:	22.1 (7.9 dv)	17.8 (5.8 dv)	24.7 (9.1 dv)
Aerosol Extinction*:	12.1	7.8	14.7
	Average (Mm-1)	% of Tot. Extinction	% of Aer. Extinction
Ammonium Sulfate:	3.6	17%	30%
Ammonium Nitrate:	1.0	4%	8%
Organic Material:	2.3	10%	19%
Elemental Carbon:	1.4	6%	11%
Soil:	1.7	8%	14%
Coarse Material:	2.0	9%	17%
Rayleigh:	10.0	45%	N/A

*Excludes Rayleigh Extinction

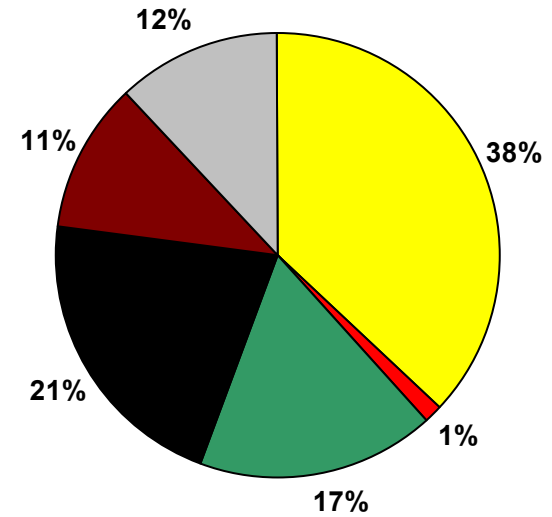
MODEL RESULTS

Saguaro National Park - East, AZ 2002 Reconstructed Extinction CMAQ Model Results (every day)

20% Worst Visibility Days
Aerosol Extinction* = 28 Mm⁻¹ (20 to 75 Mm⁻¹)

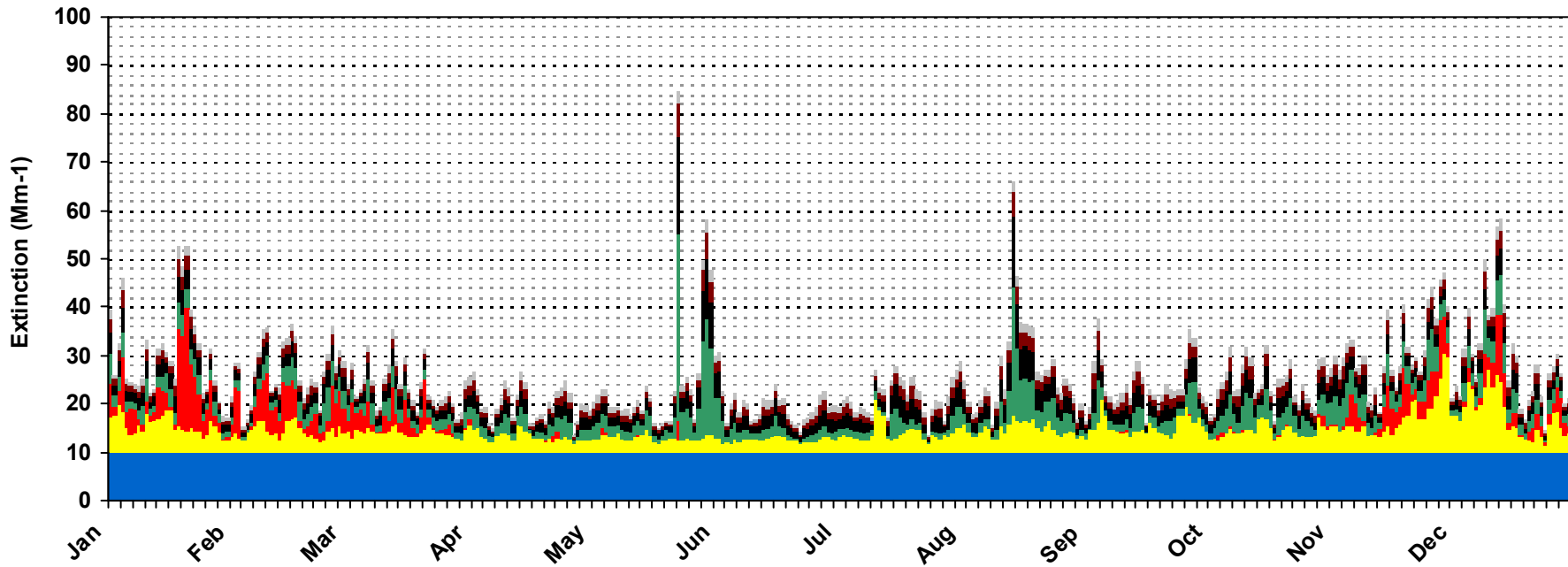


20% Best Visibility Days
Aerosol Extinction* = 7 Mm⁻¹ (3 to 9 Mm⁻¹)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

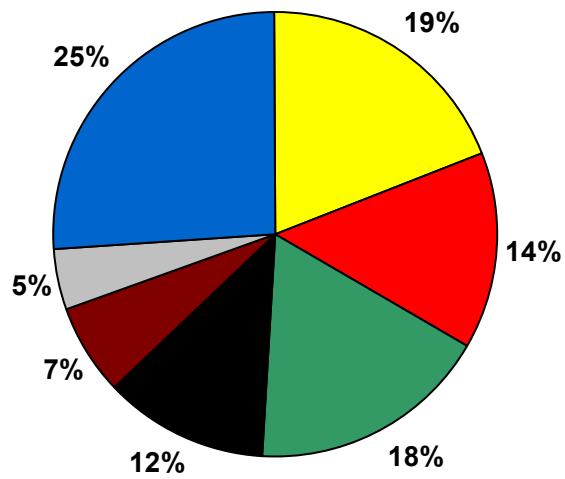
*Excludes Rayleigh Extinction



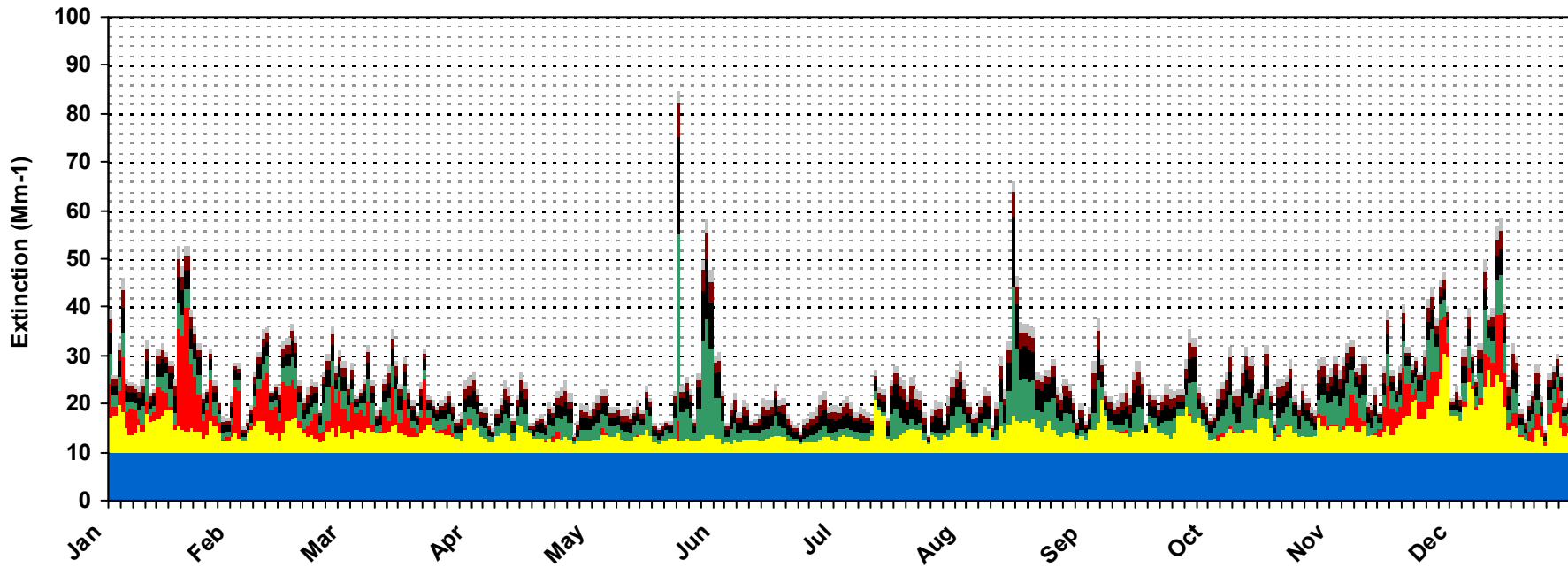
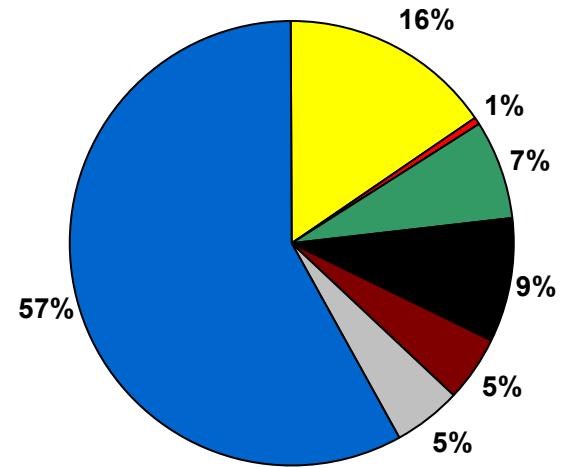
MODEL RESULTS

Saguaro National Park - East, AZ 2002 Reconstructed Extinction CMAQ Model Results (every day)

20% Worst Visibility Days
Total Extinction = 38 Mm-1 (30 to 85 Mm-1)



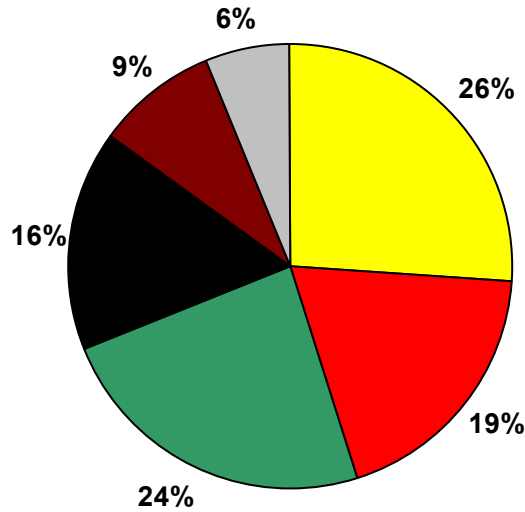
20% Best Visibility Days
Total Extinction = 17 Mm-1 (13 to 19 Mm-1)



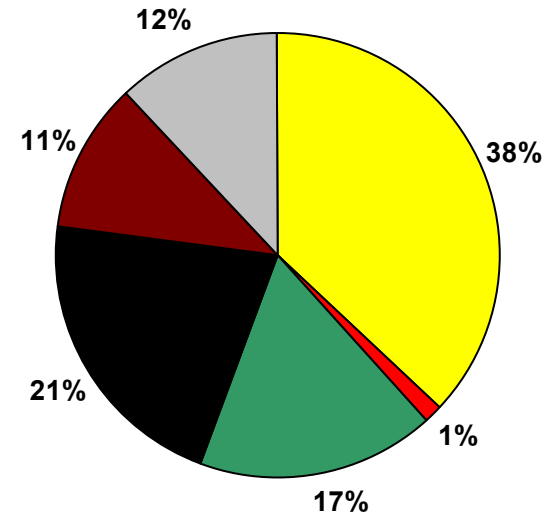
MODEL RESULTS

Saguaro National Park - East, AZ 2002 Reconstructed Extinction CMAQ Model Results (every day)

20% Worst Visibility Days
Aerosol Extinction* = 28 Mm-1 (20 to 75 Mm-1)

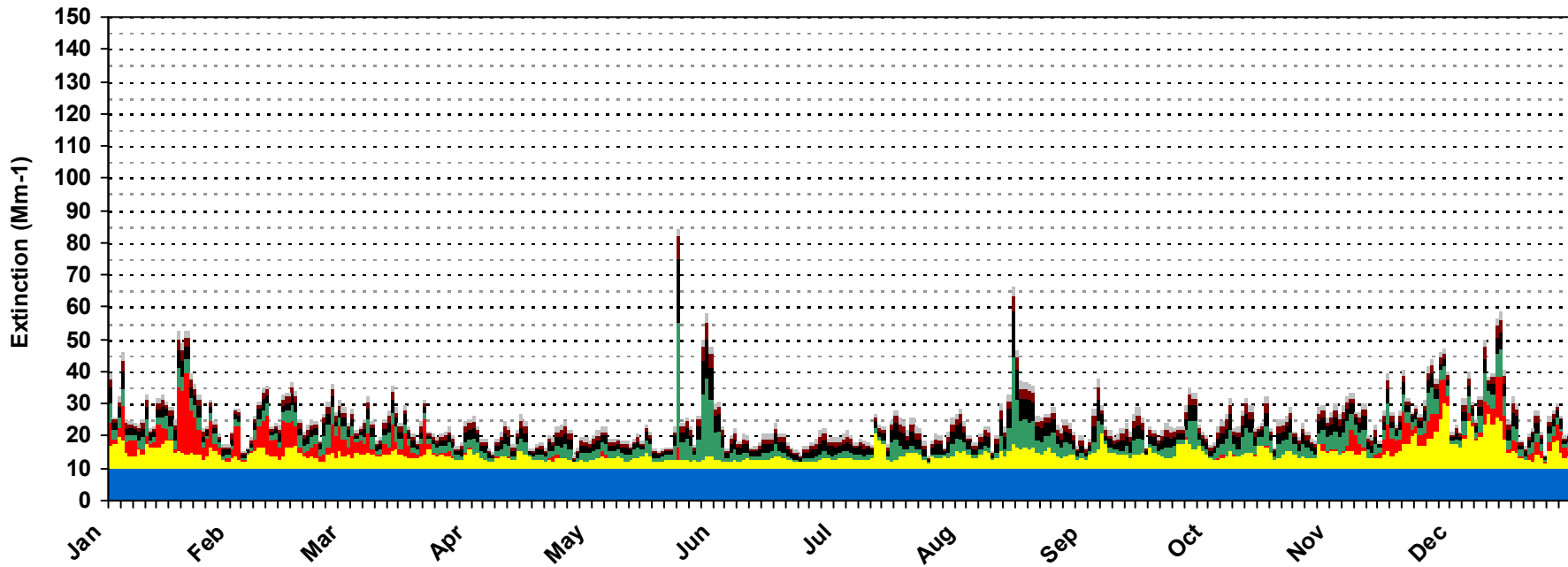


20% Best Visibility Days
Aerosol Extinction* = 7 Mm-1 (3 to 9 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

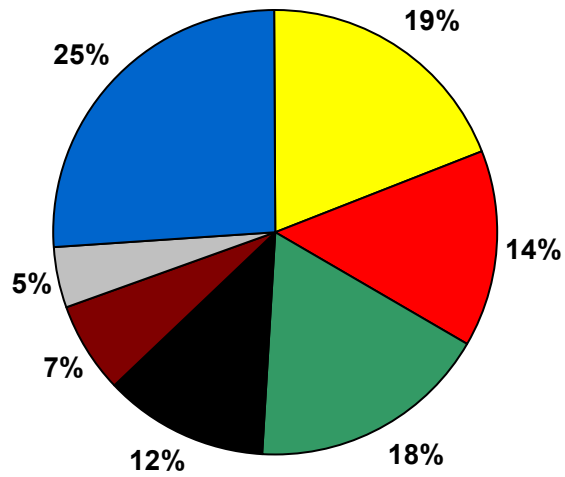
*Excludes Rayleigh Extinction



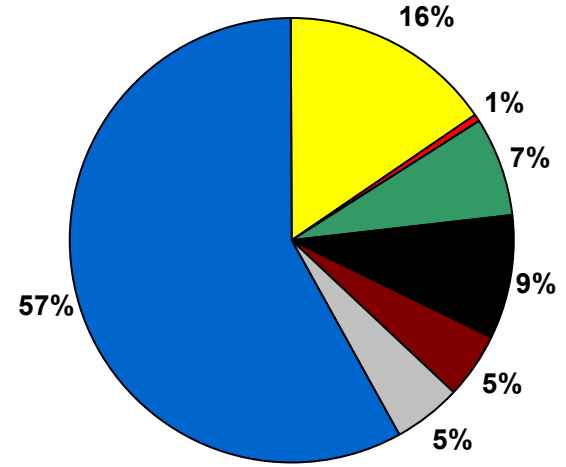
MODEL RESULTS

Saguaro National Park - East, AZ 2002 Reconstructed Extinction CMAQ Model Results (every day)

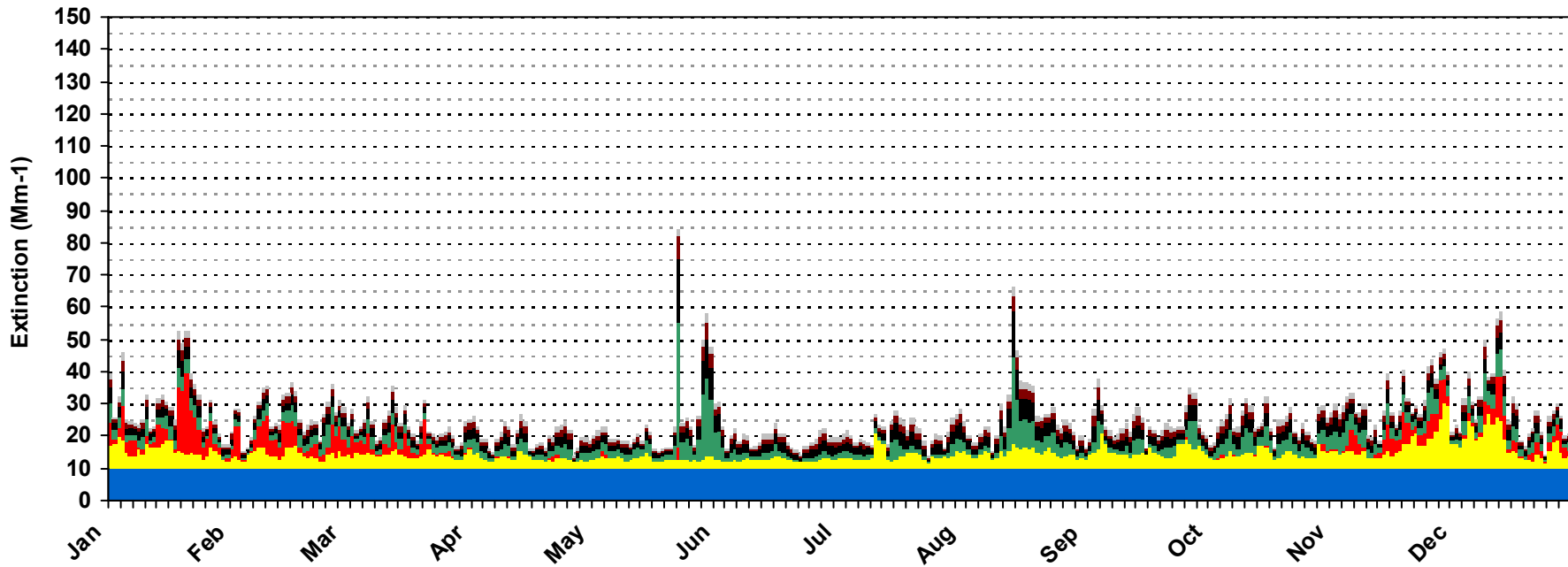
20% Worst Visibility Days
Total Extinction = 38 Mm-1 (30 to 85 Mm-1)



20% Best Visibility Days
Total Extinction = 17 Mm-1 (13 to 19 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



MODEL RESULTS

Saguaro National Park - East, AZ 2002 Reconstructed Extinction CMAQ Model Results (every day)

20% Worst Visibility Days			
	Average (Mm-1)	Minimum (Mm-1)	Maximum (Mm-1)
Total Extinction:	38.4 (13.5 dv)	29.9 (10.9 dv)	84.5 (21.3 dv)
Aerosol Extinction*:	28.4	19.9	74.5
	Average (Mm-1)	% of Tot. Extinction	% of Aer. Extinction
Ammonium Sulfate:	7.4	19%	26%
Ammonium Nitrate:	5.4	14%	19%
Organic Material:	6.8	18%	24%
Elemental Carbon:	4.5	12%	16%
Soil:	2.5	7%	9%
Coarse Material:	1.8	5%	6%
Rayleigh:	10.0	26%	N/A
20% Best Visibility Days			
	Average (Mm-1)	Minimum (Mm-1)	Maximum (Mm-1)
Total Extinction:	17.3 (5.5 dv)	13.5 (3.0 dv)	19.3 (6.5 dv)
Aerosol Extinction*:	7.3	3.5	9.3
	Average (Mm-1)	% of Tot. Extinction	% of Aer. Extinction
Ammonium Sulfate:	2.7	16%	37%
Ammonium Nitrate:	0.1	1%	1%
Organic Material:	1.2	7%	17%
Elemental Carbon:	1.5	9%	21%
Soil:	0.8	5%	11%
Coarse Material:	0.9	5%	12%
Rayleigh:	10.0	58%	N/A

*Excludes Rayleigh Extinction