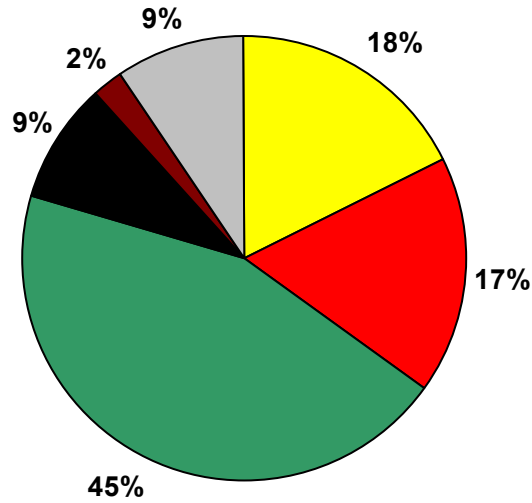


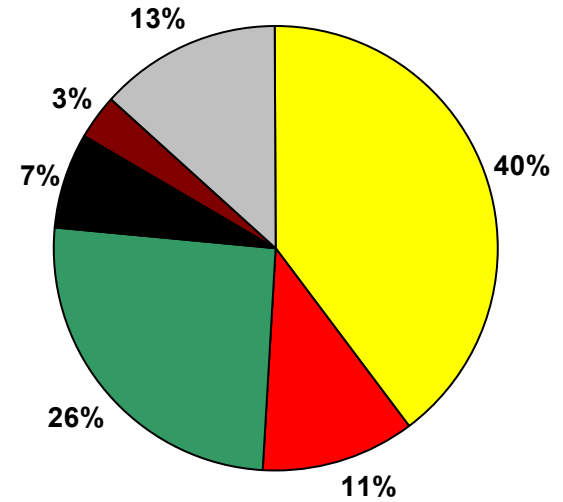
**MONITORING DATA**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
FLAT1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 37 Mm<sup>-1</sup> (28 to 51 Mm<sup>-1</sup>)

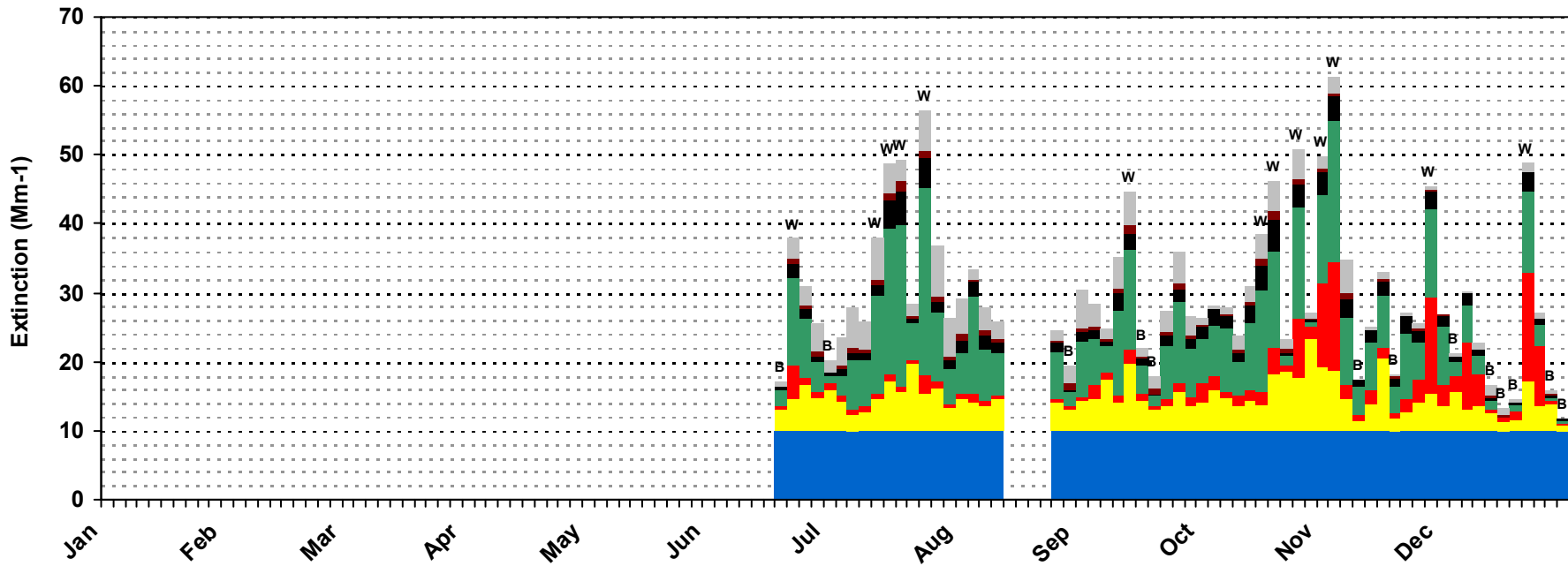


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm<sup>-1</sup> (2 to 12 Mm<sup>-1</sup>)



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

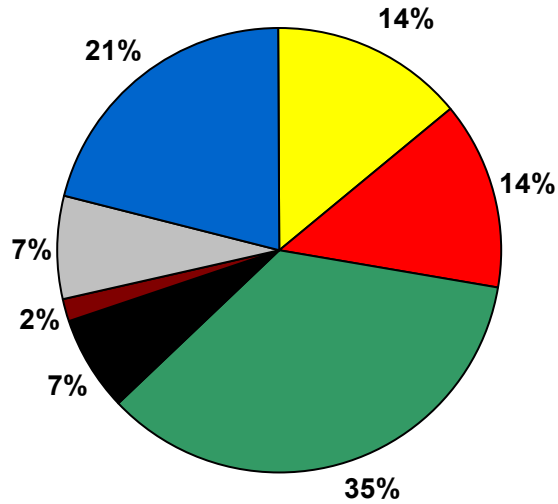
\*Excludes Rayleigh Extinction



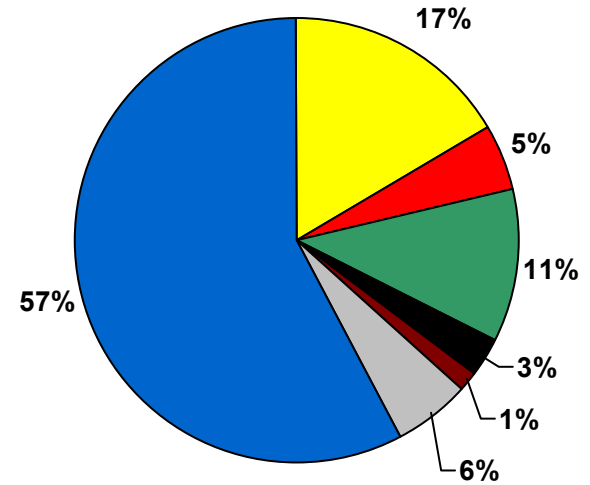
**MONITORING DATA**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
FLAT1 Monitoring Data (every third day)**

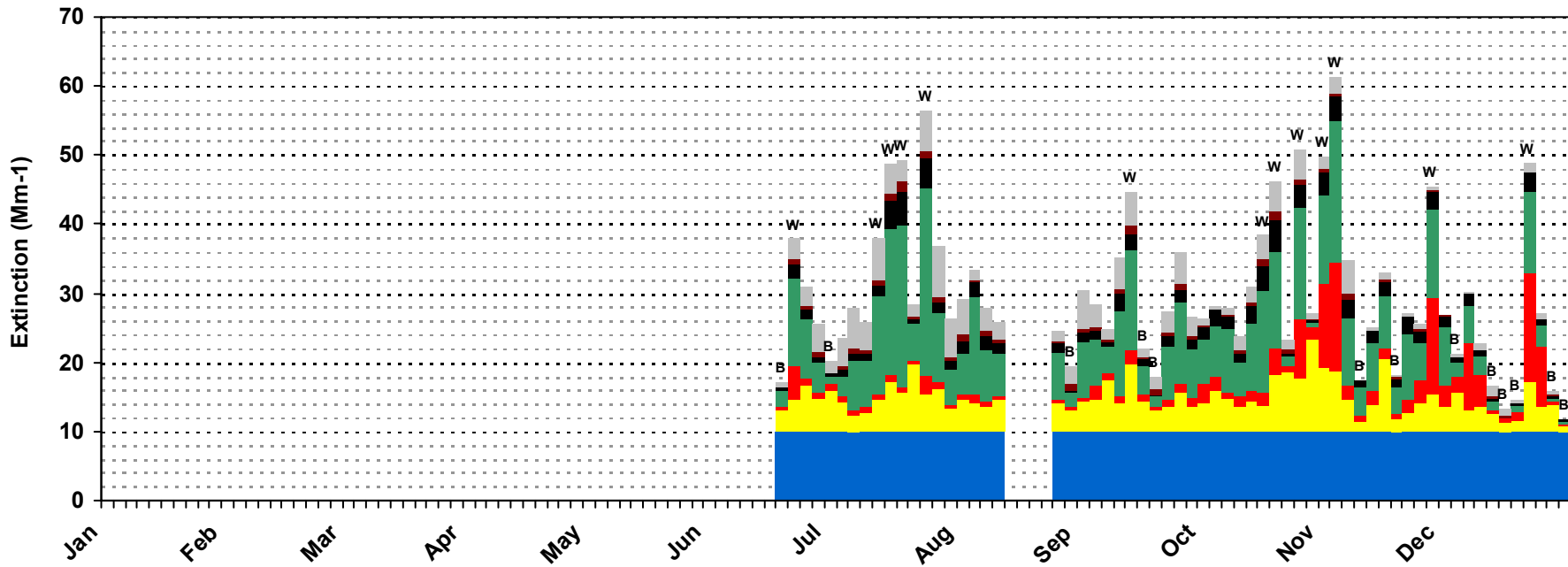
**20% Worst Visibility Days**  
Total Extinction = 47 Mm-1 (38 to 61 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (12 to 22 Mm-1)



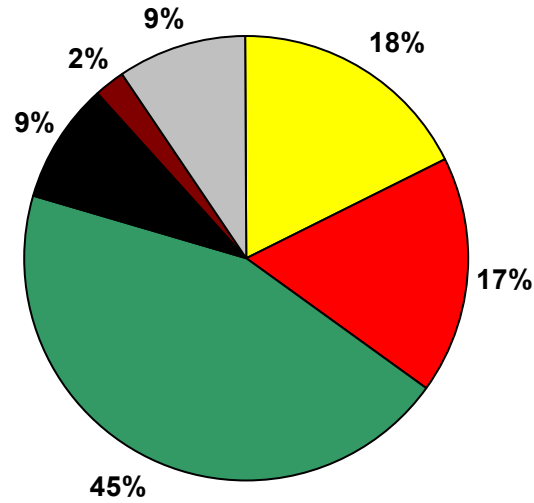
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



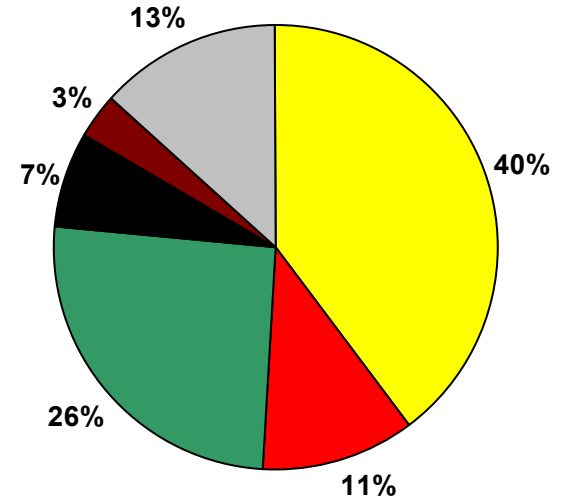
**MONITORING DATA**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
FLAT1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 37 Mm-1 (28 to 51 Mm-1)

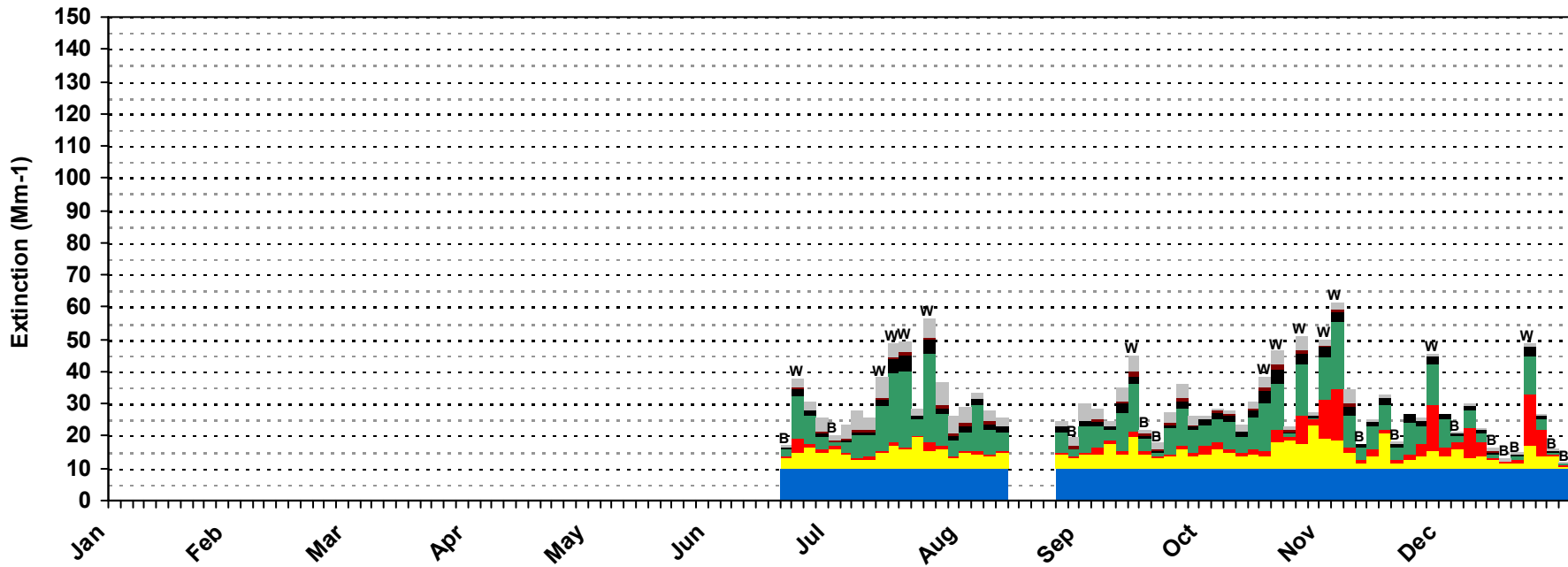


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (2 to 12 Mm-1)



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

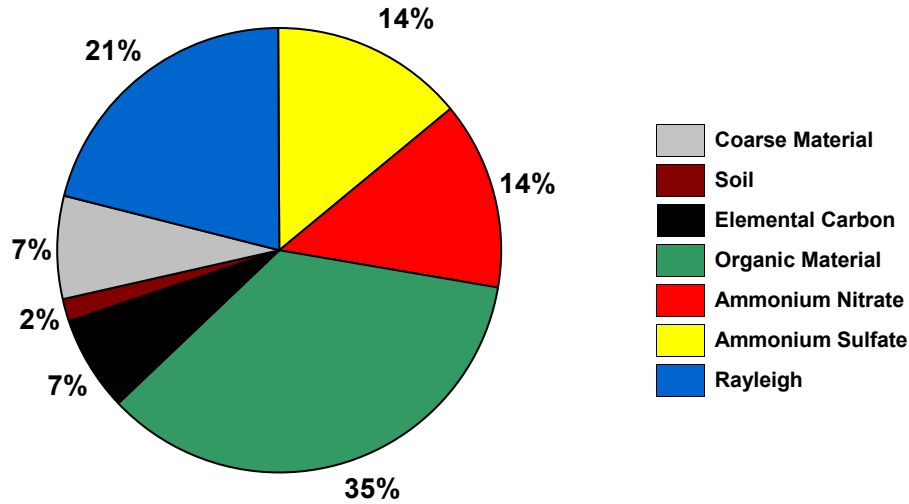
\*Excludes Rayleigh Extinction



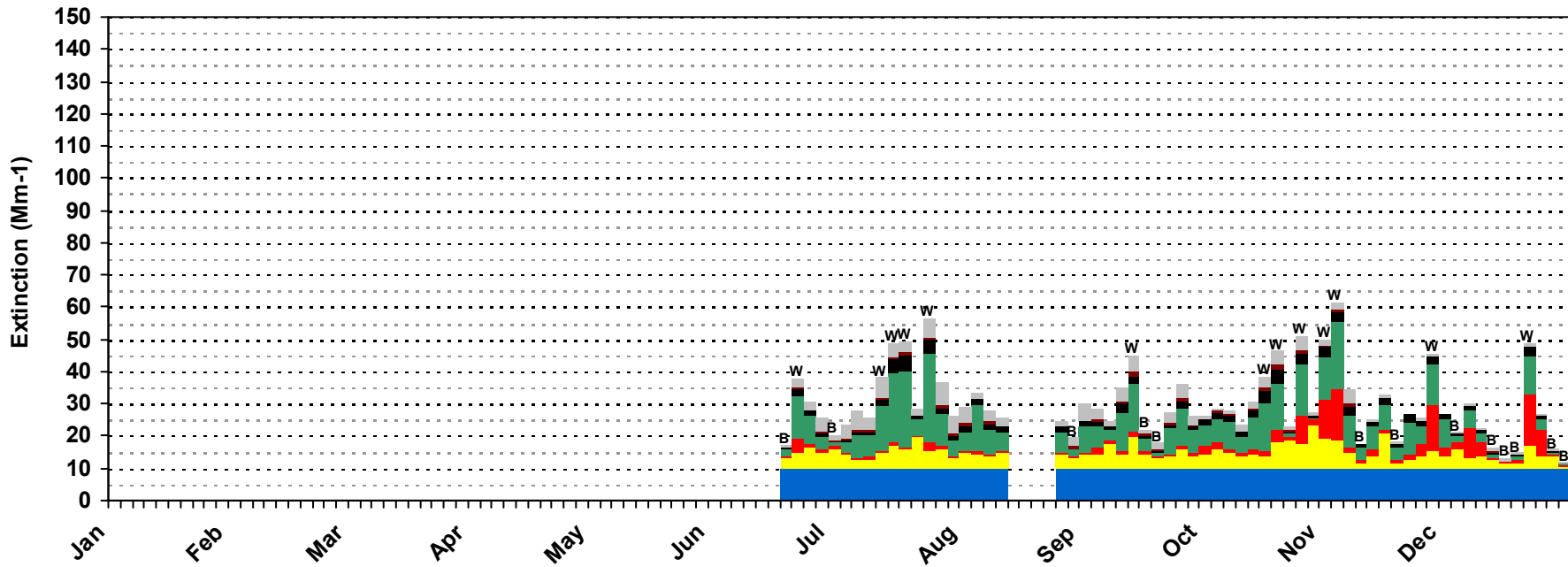
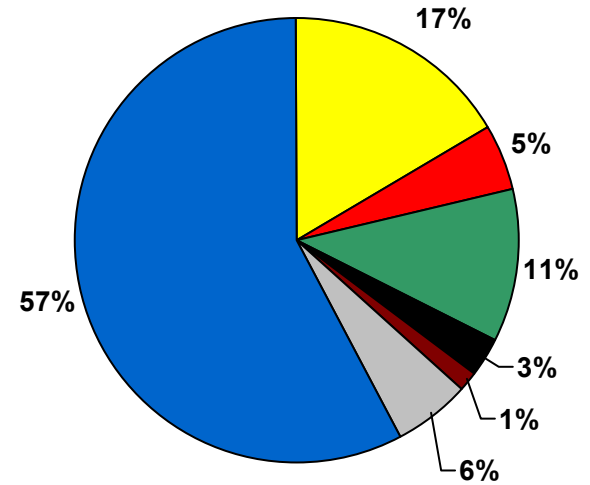
**MONITORING DATA**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
FLAT1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Total Extinction = 47 Mm-1 (38 to 61 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (12 to 22 Mm-1)



## MONITORING DATA

### Confederated Salish and Kootenai Tribes, MT 2002 Reconstructed Extinction Values FLAT1 Monitoring Data (every third day)

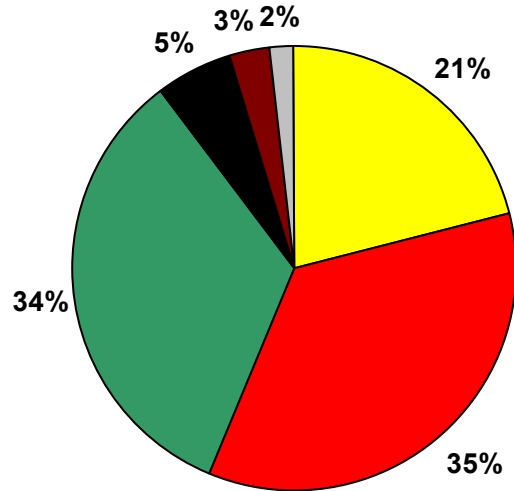
| <b>20% Worst Visibility Days</b> |                       |                             |                             |
|----------------------------------|-----------------------|-----------------------------|-----------------------------|
|                                  | <b>Average (Mm-1)</b> | <b>Minimum (Mm-1)</b>       | <b>Maximum (Mm-1)</b>       |
| <b>Total Extinction:</b>         | 47.4 (15.6 dv)        | 38.0 (13.3 dv)              | 61.4 (18.1 dv)              |
| <b>Aerosol Extinction*:</b>      | 37.4                  | 28.0                        | 51.4                        |
|                                  | <b>Average (Mm-1)</b> | <b>% of Tot. Extinction</b> | <b>% of Aer. Extinction</b> |
| <b>Ammonium Sulfate:</b>         | 6.7                   | 14%                         | 18%                         |
| <b>Ammonium Nitrate:</b>         | 6.4                   | 14%                         | 17%                         |
| <b>Organic Material:</b>         | 16.6                  | 35%                         | 44%                         |
| <b>Elemental Carbon:</b>         | 3.3                   | 7%                          | 9%                          |
| <b>Soil:</b>                     | 0.8                   | 2%                          | 2%                          |
| <b>Coarse Material:</b>          | 3.5                   | 7%                          | 9%                          |
| <b>Rayleigh:</b>                 | 10.0                  | 21%                         | N/A                         |
| <b>20% Best Visibility Days</b>  |                       |                             |                             |
|                                  | <b>Average (Mm-1)</b> | <b>Minimum (Mm-1)</b>       | <b>Maximum (Mm-1)</b>       |
| <b>Total Extinction:</b>         | 17.4 (5.5 dv)         | 11.9 (1.7 dv)               | 21.9 (7.8 dv)               |
| <b>Aerosol Extinction*:</b>      | 7.4                   | 1.9                         | 11.9                        |
|                                  | <b>Average (Mm-1)</b> | <b>% of Tot. Extinction</b> | <b>% of Aer. Extinction</b> |
| <b>Ammonium Sulfate:</b>         | 2.9                   | 17%                         | 40%                         |
| <b>Ammonium Nitrate:</b>         | 0.8                   | 5%                          | 11%                         |
| <b>Organic Material:</b>         | 1.9                   | 11%                         | 26%                         |
| <b>Elemental Carbon:</b>         | 0.5                   | 3%                          | 7%                          |
| <b>Soil:</b>                     | 0.2                   | 1%                          | 3%                          |
| <b>Coarse Material:</b>          | 0.9                   | 5%                          | 12%                         |
| <b>Rayleigh:</b>                 | 10.0                  | 58%                         | N/A                         |

\*Excludes Rayleigh Extinction

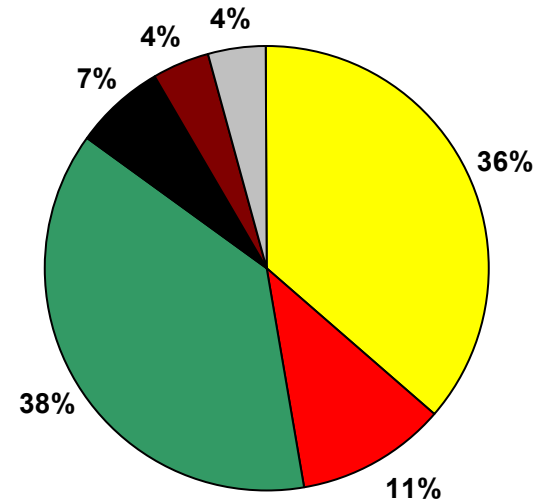
**MODEL RESULTS**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 48 Mm-1 (34 to 124 Mm-1)

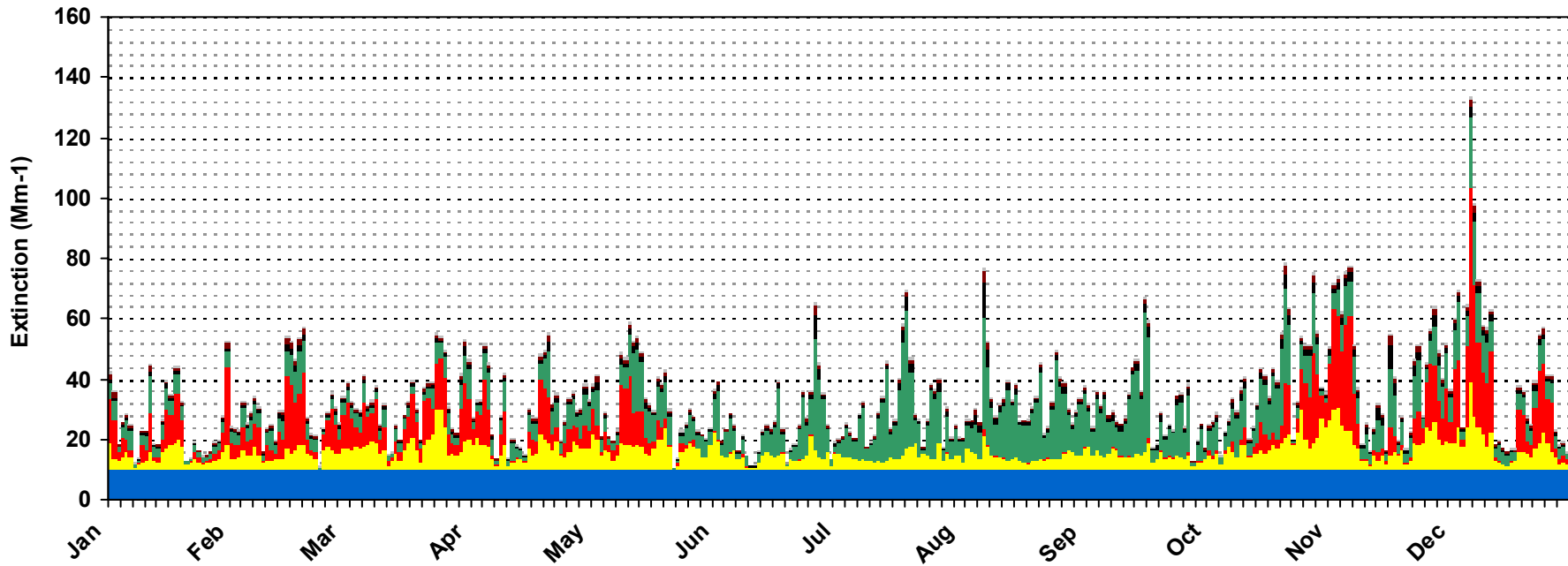


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (1 to 11 Mm-1)



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

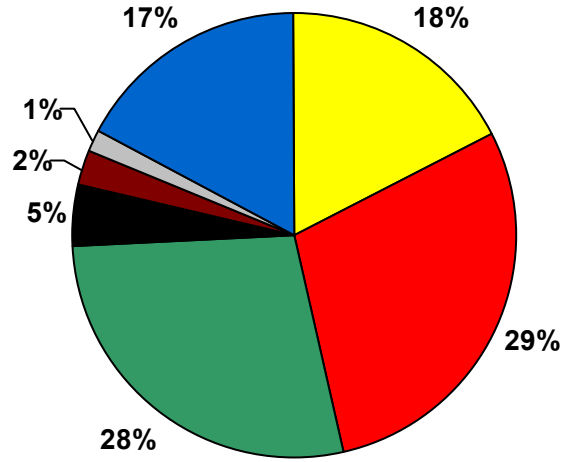
\*Excludes Rayleigh Extinction



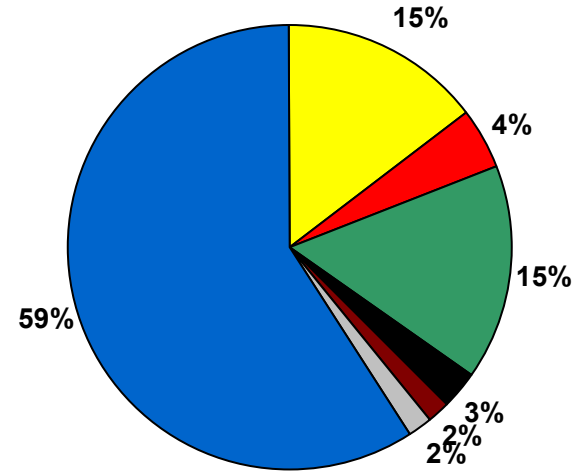
**MODEL RESULTS**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

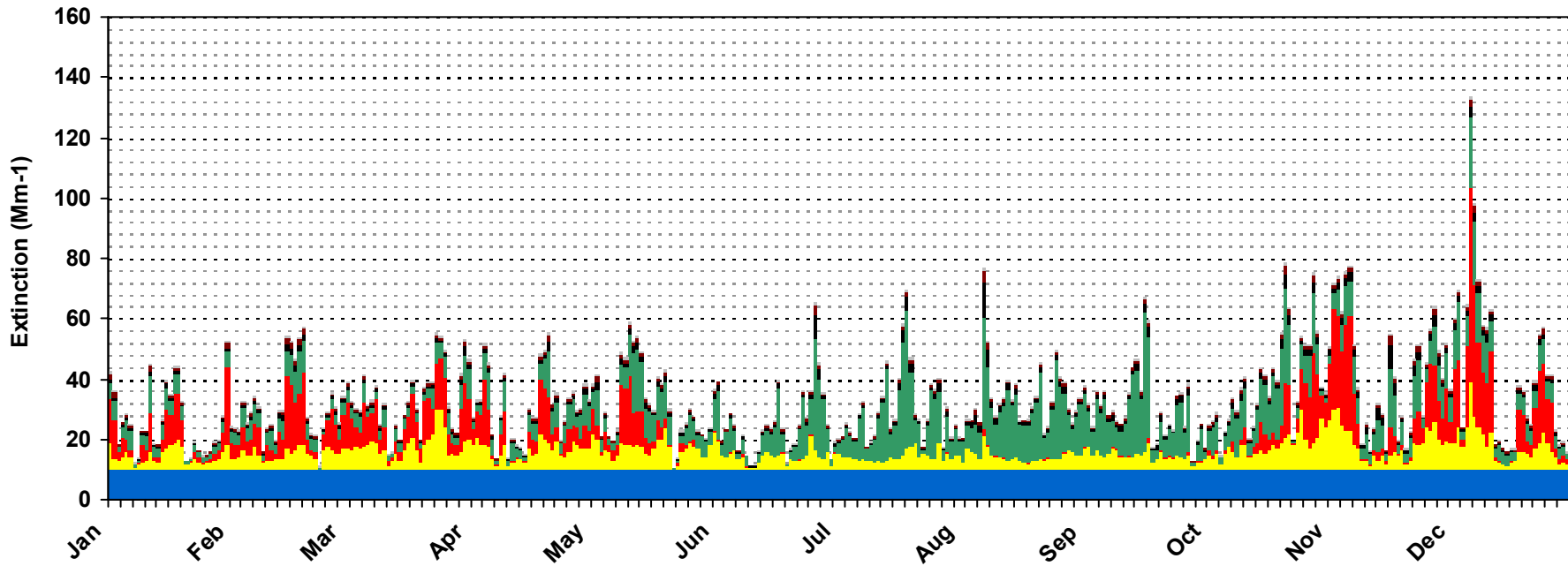
**20% Worst Visibility Days**  
Total Extinction = 58 Mm-1 (44 to 134 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (11 to 21 Mm-1)



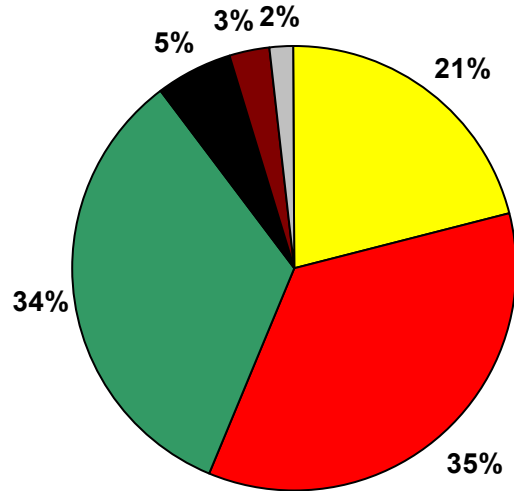
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



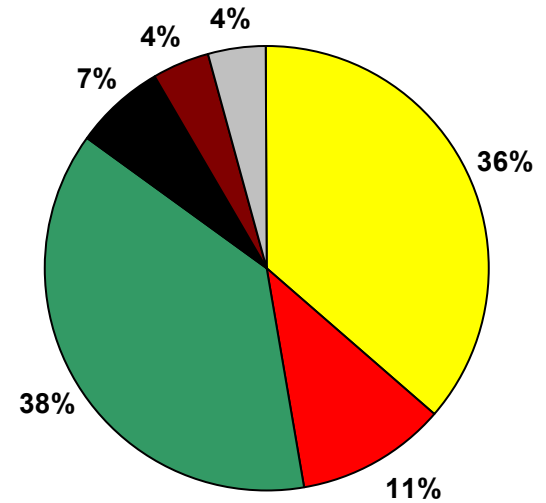
# MODEL RESULTS

## Confederated Salish and Kootenai Tribes, MT 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 48 Mm-1 (34 to 124 Mm-1)

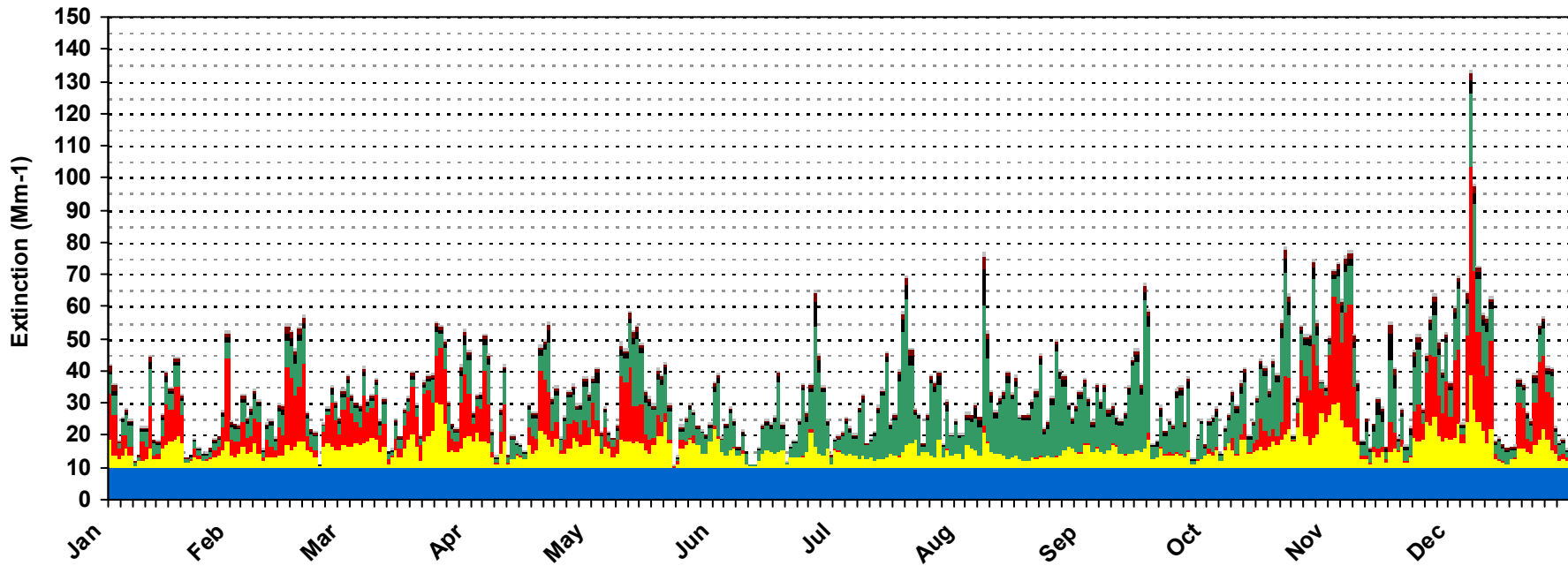


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (1 to 11 Mm-1)



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

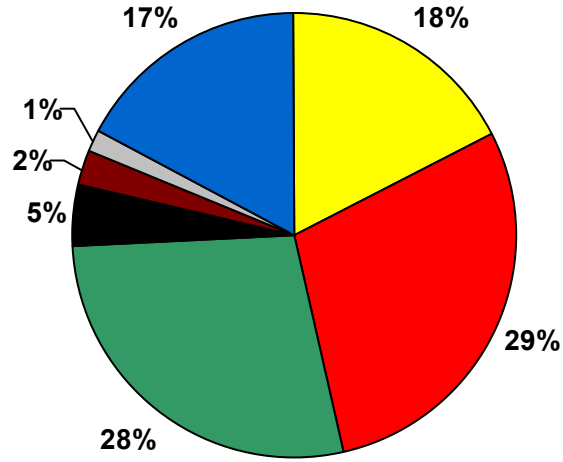
\*Excludes Rayleigh Extinction



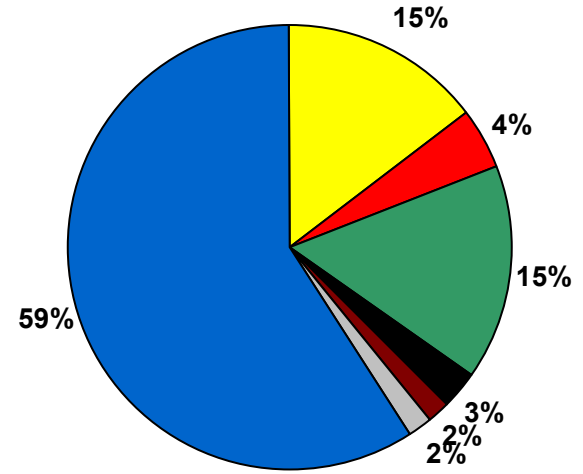
**MODEL RESULTS**

**Confederated Salish and Kootenai Tribes, MT  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

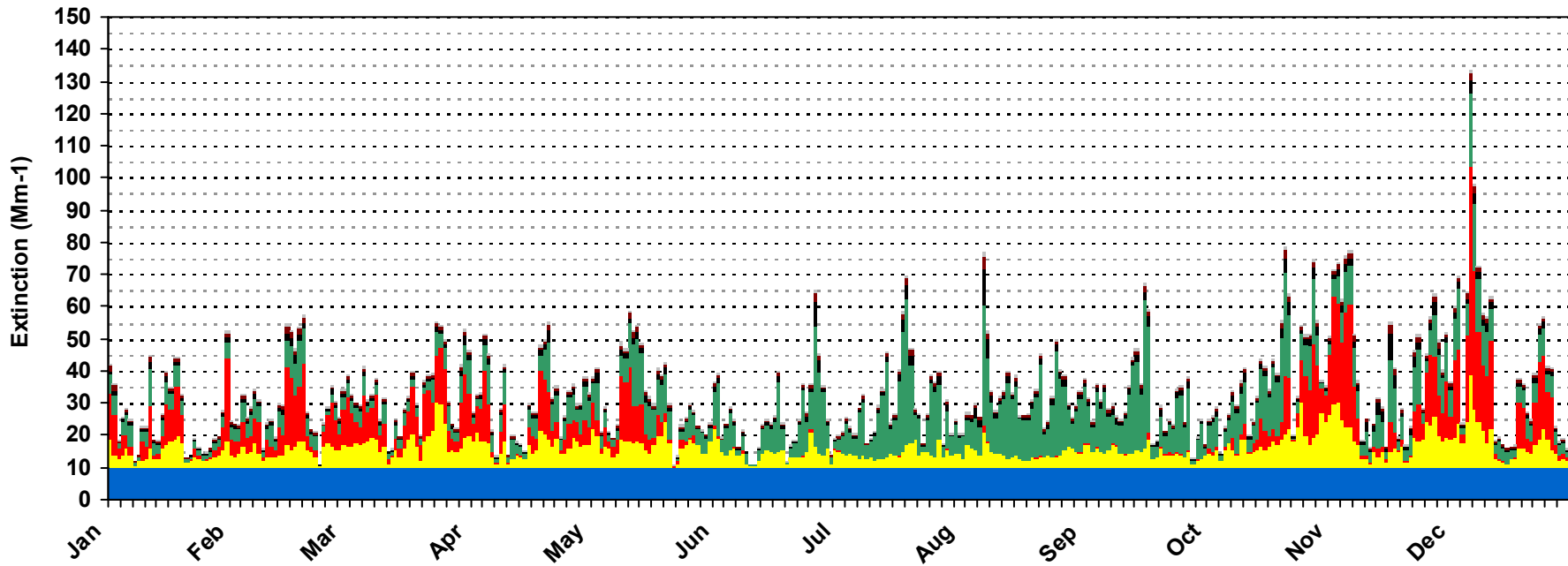
**20% Worst Visibility Days**  
Total Extinction = 58 Mm-1 (44 to 134 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (11 to 21 Mm-1)



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



## MODEL RESULTS

### Confederated Salish and Kootenai Tribes, MT 2002 Reconstructed Extinction CMAQ Model Results (every day)

| <b>20% Worst Visibility Days</b> |                       |                             |                             |
|----------------------------------|-----------------------|-----------------------------|-----------------------------|
|                                  | <b>Average (Mm-1)</b> | <b>Minimum (Mm-1)</b>       | <b>Maximum (Mm-1)</b>       |
| <b>Total Extinction:</b>         | 57.7 (17.5 dv)        | 44.1 (14.8 dv)              | 133.6 (25.9 dv)             |
| <b>Aerosol Extinction*:</b>      | 47.7                  | 34.1                        | 123.6                       |
|                                  | <b>Average (Mm-1)</b> | <b>% of Tot. Extinction</b> | <b>% of Aer. Extinction</b> |
| <b>Ammonium Sulfate:</b>         | 10.1                  | 18%                         | 21%                         |
| <b>Ammonium Nitrate:</b>         | 16.7                  | 29%                         | 35%                         |
| <b>Organic Material:</b>         | 16.0                  | 28%                         | 34%                         |
| <b>Elemental Carbon:</b>         | 2.6                   | 5%                          | 5%                          |
| <b>Soil:</b>                     | 1.4                   | 2%                          | 3%                          |
| <b>Coarse Material:</b>          | 0.8                   | 1%                          | 2%                          |
| <b>Rayleigh:</b>                 | 10.0                  | 17%                         | N/A                         |
| <b>20% Best Visibility Days</b>  |                       |                             |                             |
|                                  | <b>Average (Mm-1)</b> | <b>Minimum (Mm-1)</b>       | <b>Maximum (Mm-1)</b>       |
| <b>Total Extinction:</b>         | 16.9 (5.3 dv)         | 10.7 (0.7 dv)               | 20.9 (7.4 dv)               |
| <b>Aerosol Extinction*:</b>      | 6.9                   | 0.7                         | 10.9                        |
|                                  | <b>Average (Mm-1)</b> | <b>% of Tot. Extinction</b> | <b>% of Aer. Extinction</b> |
| <b>Ammonium Sulfate:</b>         | 2.5                   | 15%                         | 36%                         |
| <b>Ammonium Nitrate:</b>         | 0.7                   | 4%                          | 11%                         |
| <b>Organic Material:</b>         | 2.6                   | 15%                         | 38%                         |
| <b>Elemental Carbon:</b>         | 0.5                   | 3%                          | 7%                          |
| <b>Soil:</b>                     | 0.3                   | 2%                          | 4%                          |
| <b>Coarse Material:</b>          | 0.3                   | 2%                          | 4%                          |
| <b>Rayleigh:</b>                 | 10.0                  | 59%                         | N/A                         |

\*Excludes Rayleigh Extinction