

APPENDIX C

File Key for Substituted Data

A dedicated page on the VIEWS database acts as the repository of all site-specific substitute data sets <http://vista.cira.colostate.edu/views/web/documents/substitutedata.aspx>. Data is also available on the ARS ftp site (ftp://ftp.air-resource.com/VISTAS/Aerosol_dataset_VISTAS_2000-2004/).

Table C-1 presents a key to the substituted data files.

Table C-1
Key to Substituted Data Files

Column Header	Description
site	IMPROVE site code
year	
month	
day	
QUARTER	1 = Jan. – Mar., 2 = Apr.-Jun., 3 = Jul. – Sept., 4 = Oct. – Dec.
date	
Group	10 = One of the 20% best visibility days; 90 = One of the 20% worst visibility days
good_year	0 = incomplete year, 1 = complete RHR year, 2 = complete year with substitutions
ss_rayleigh	Site specific Rayleigh value (clean air extinction)
fsrh	f(RH) value for small sulfate, nitrate and organic mass
flrh	f(RH) value for large sulfate, nitrate and organic mass
fssrh	f(RH) value for sea salt mass
Sea_Salt	Sea salt mass ($\mu\text{g}/\text{m}^3$)
Soil	Soil Mass ($\mu\text{g}/\text{m}^3$)
Amm_NO3	Ammonium nitrate mass ($\mu\text{g}/\text{m}^3$)
OMC	Organic mass by carbon ($\mu\text{g}/\text{m}^3$)
LAC	Light absorbing carbon (aka EC/Elemental Carbon) ($\mu\text{g}/\text{m}^3$)
CM	Coarse mass ($\mu\text{g}/\text{m}^3$)
Amm_SO4	Ammonium sulfate mass ($\mu\text{g}/\text{m}^3$)
Large_OMC	Large organic mass ($\mu\text{g}/\text{m}^3$)
Small_OMC	Small organic mass ($\mu\text{g}/\text{m}^3$)
Large_Amm_SO4	Large ammonium sulfate mass ($\mu\text{g}/\text{m}^3$)
Small_Amm_SO4	Small ammonium sulfate mass ($\mu\text{g}/\text{m}^3$)
Large_Amm_NO3	Large ammonium nitrate mass ($\mu\text{g}/\text{m}^3$)
Small_Amm_NO3	Small ammonium nitrate mass ($\mu\text{g}/\text{m}^3$)
EAm SO4	Extinction due to ammonium sulfate (Mm-1)
EAm NO3	Extinction due to ammonium nitrate (Mm-1)
EOMC	Extinction due to organic carbon mass (Mm-1)
ELAC	Extinction due to light absorbing carbon mass (Mm-1)
ESoil	Extinction due to soil mass (Mm-1)
ECM	Extinction due to coarse mass (Mm-1)
ESea_Salt	Extinction due to sea salt mass (Mm-1)
RBext	Reconstructed aerosol extinction (Mm-1)
TBext	Reconstructed total extinction (Mm-1)
OC_SUB1	OC substituted using OC vs. organic H correlations
EC_SUB1	EC substituted using EC vs. OC correlations
(NH ₄) ₂ SO ₄ _SUB2	Ammonium sulfate substituted using site donor correlations
(NH ₄)NO ₃ _SUB2	Ammonium nitrate substituted using site donor correlations
OM_SUB2	Organic mass substituted using site donor correlations
EC_SUB2	Elemental carbon (aka LAC/light absorbing carbon) substituted using site donor correlations
Soil_SUB2	Soil substituted using site donor correlations
CM_SUB2	Coarse mass substituted using site donor correlations
SeaSalt_SUB2	Sea salt substituted using site donor correlations