

Wind Rose for Hagerstown - average wind speed and wind direction data from 1976-1986

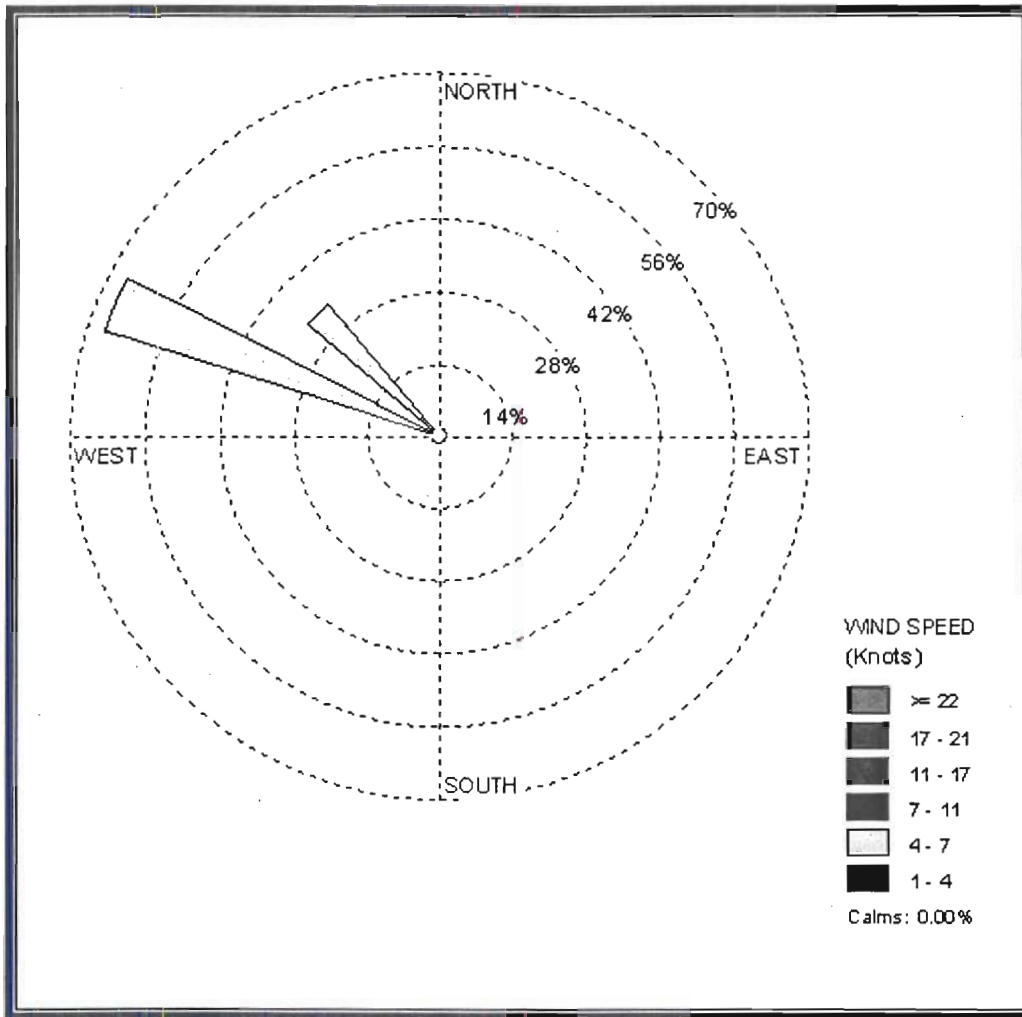


Figure 1. Hagerstown Wind Rose Using 1st Quarter Data (Jan, Feb and Mar)
Note: Wind Data is based on a 10-year study at an unobstructed location in the Southeast end of Hagerstown from 1976-1986.

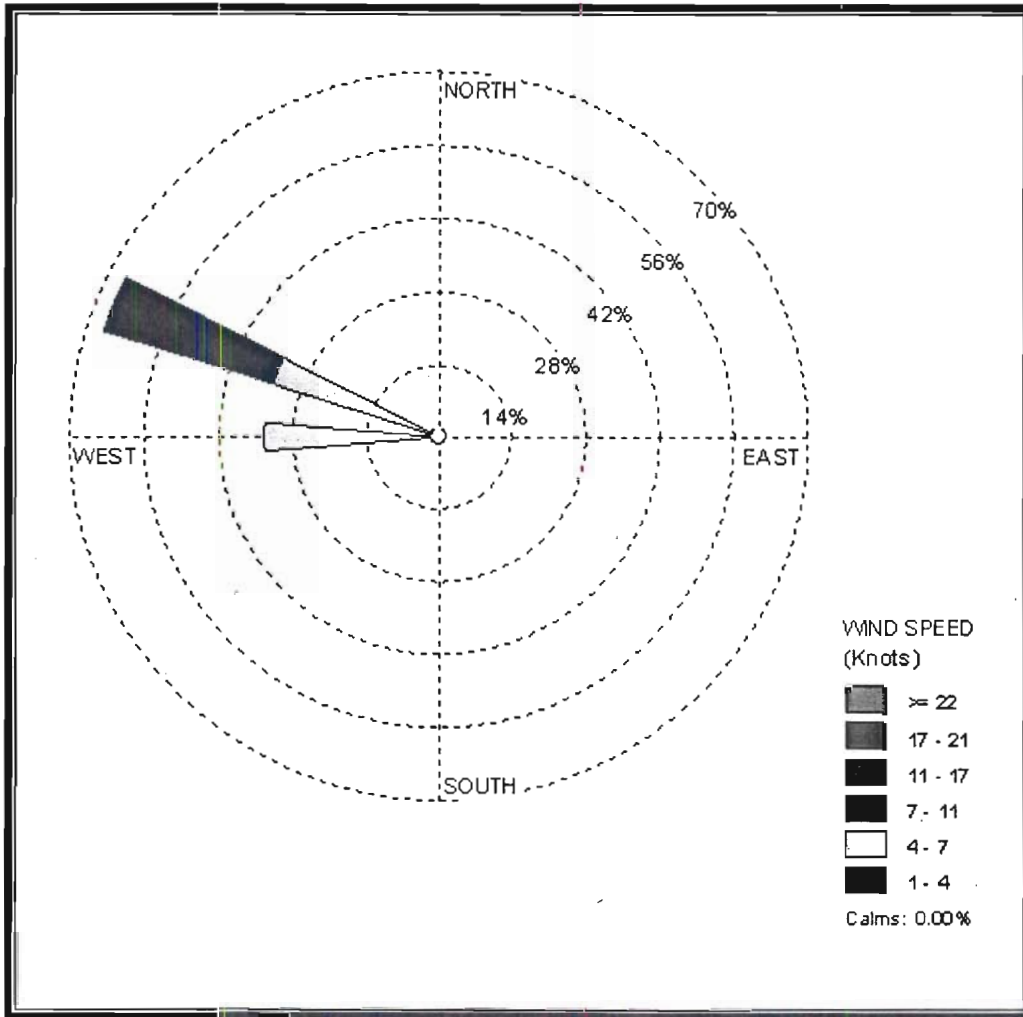


Figure 2. Hagerstown Wind Rose Using 2nd Quarter Data (Apr, May and June)
 Note: Wind Data is based on a 10-year study at an unobstructed location in the Southeast end of Hagerstown from 1976-1986.

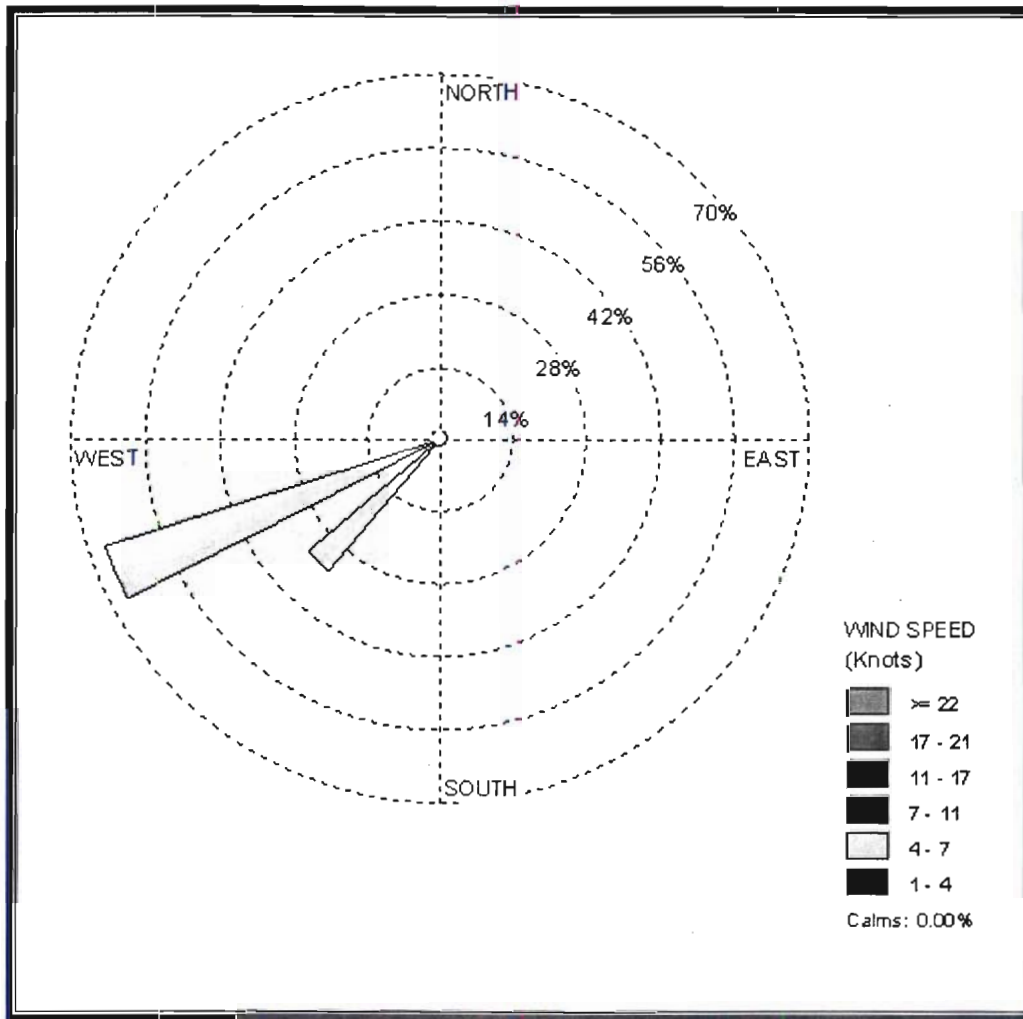


Figure 3. Hagerstown Wind Rose Using 3rd Quarter Data (July, Aug and Sept)
 Note: Wind Data is based on a 10-year study at an unobstructed location in the Southeast end of Hagerstown from 1976-1986.

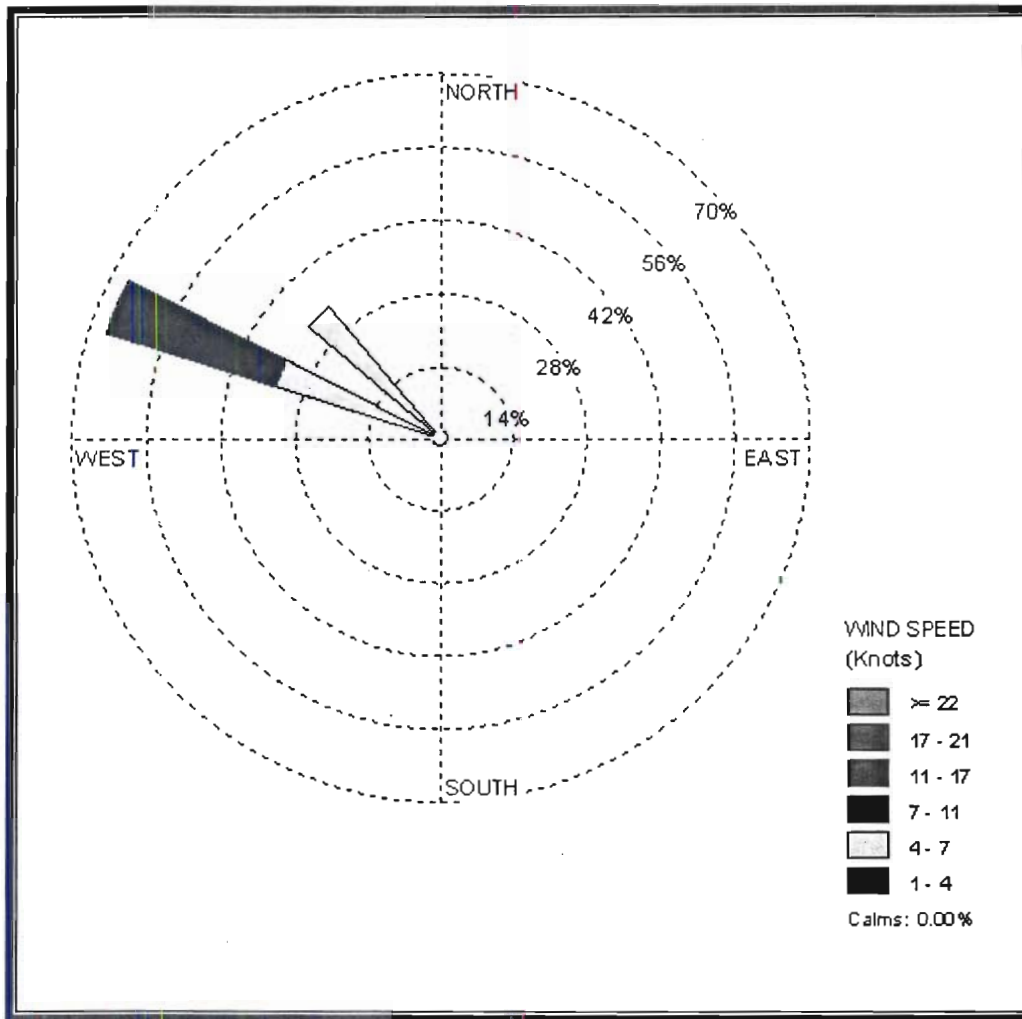
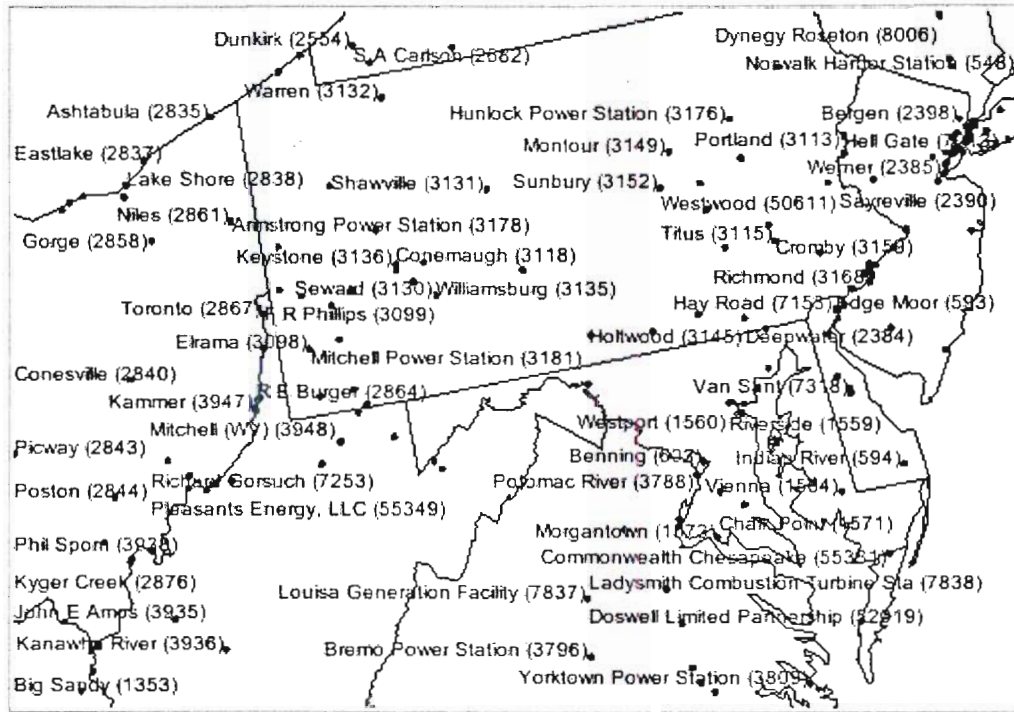


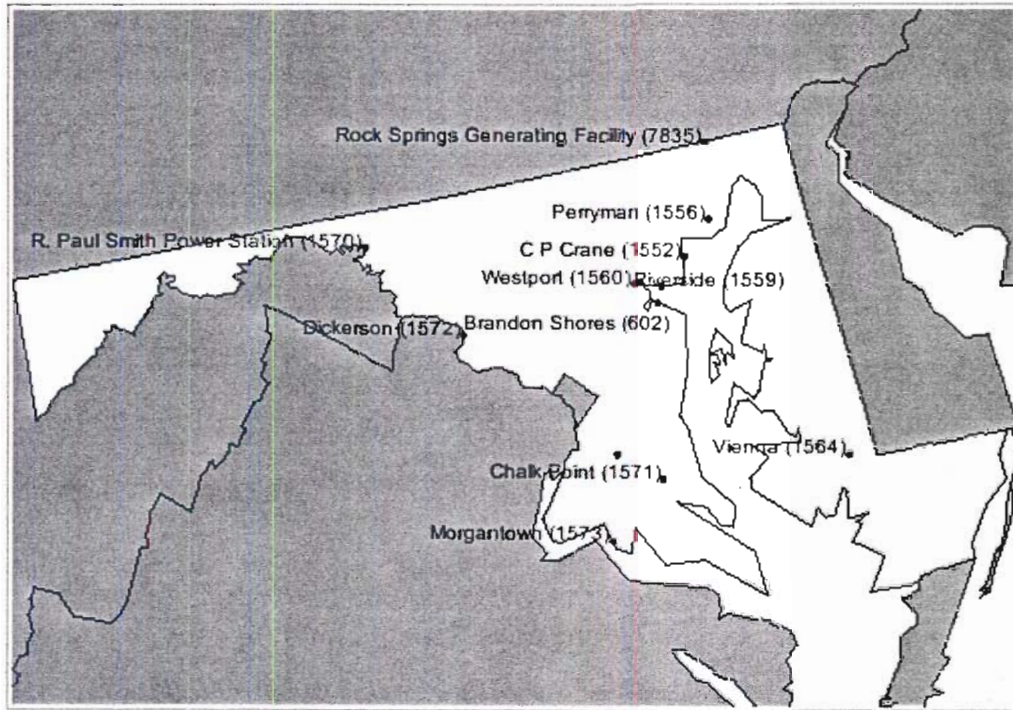
Figure 4. Hagerstown Wind Rose Using 4th Quarter Data (Oct, Nov and Dec)
 Note: Wind Data is based on a 10-year study at an unobstructed location in the Southeast end of Hagerstown from 1976-1986.

Where You Live: National Map for ARP, 2003



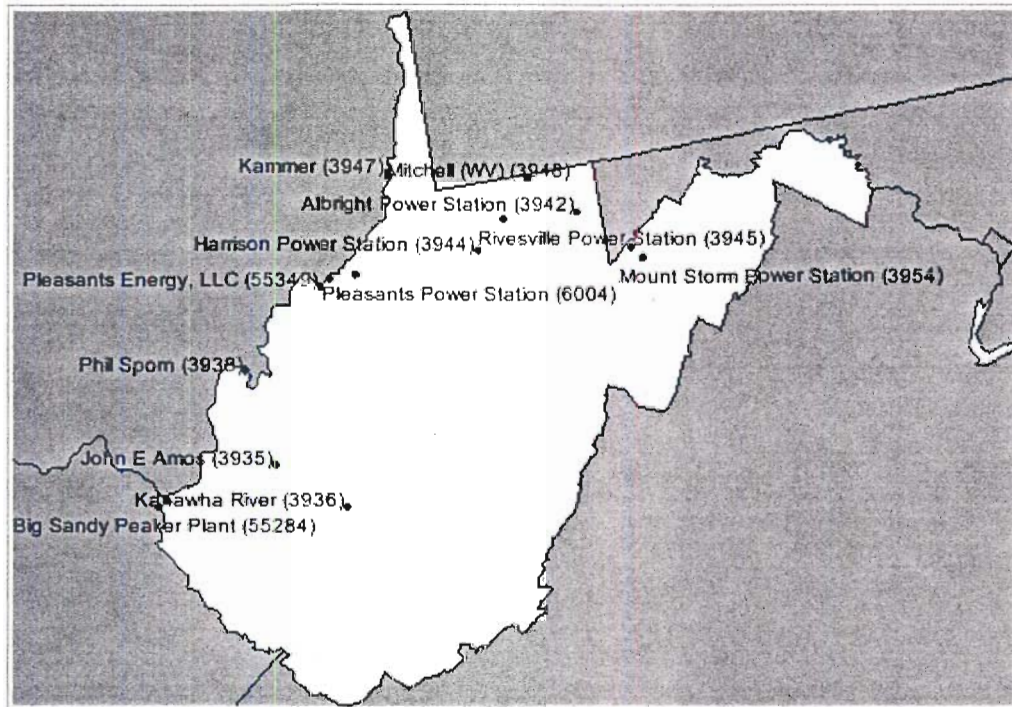
Year	Program Code	SO ₂ Tons	NO _x Tons	CO ₂ Tons	Heat Input (mmBtu)
2003	ARP	10,594,532.4	4,165,026.0	2,469,514,494.3	26,000,023,795

Where You Live: State Map - Maryland, ARP, 2003



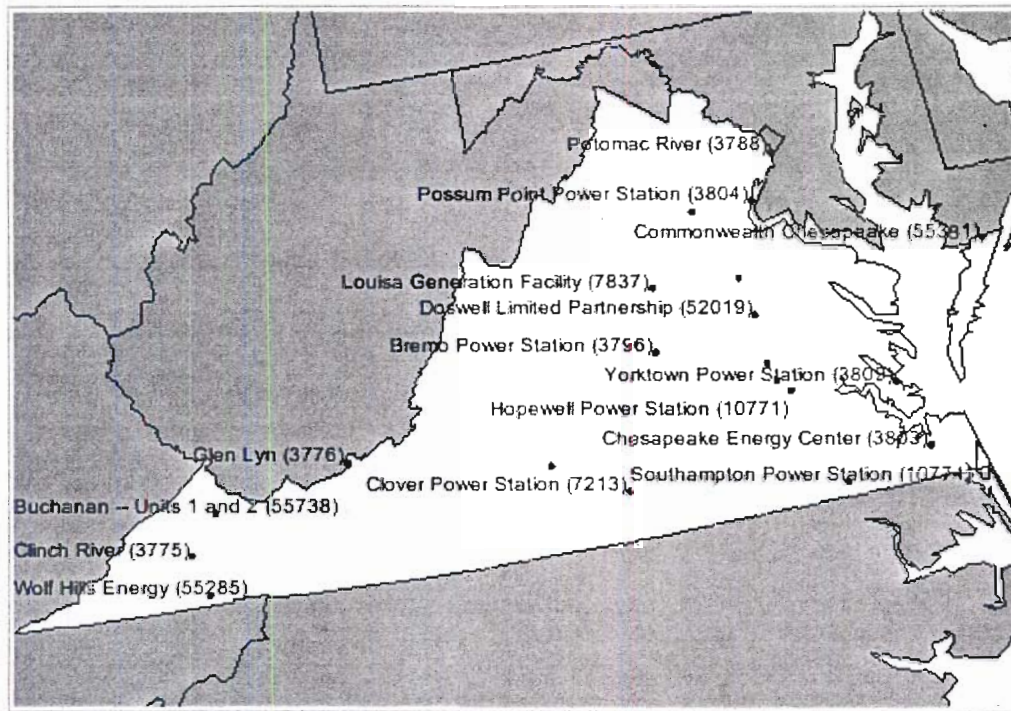
Year	State	Program Code	SO ₂ Tons	NO _x Tons	CO ₂ Tons	Heat Input (mmBtu)
2003	MD	ARP	268,991.5	68,437.8	32,130,216.0	327,163,099

Where You Live: State Map - West Virginia, ARP, 2003



Year	State	Program Code	SO ₂ Tons	NO _x Tons	CO ₂ Tons	Heat Input (mmBtu)
2003	WV	ARP	539,857.2	203,142.0	92,270,901.6	899,861,038

Where You Live: State Map - Virginia, ARP, 2003



Year	State	Program Code	SO ₂ Tons	NO _x Tons	CO ₂ Tons	Heat Input (mmBtu)
2003	VA	ARP	215,739.9	69,337.1	38,724,882.4	395,662,470

Draft PM2.5, Design Values for 2002-2004

These results are based on quality assured data.
 Official certification of the data is not expected until June, 2005.

Table 1 Annual PM2.5 Design Values for 2004

Year	Quarter	DAVE	EDGE	ESSX	FMCA	FTMD	GLNB	HAGR	NEPS	NWPS	OLDT	PADN	RIVA	ROCK	SEPS	WEST
2002	1	8.85	9.98	14.14	9.61	13.15	12.56	12.57	12.54	12.57	15.04	11.45	11.50	9.88	14.11	12.36
	2	12.77	13.28	13.69	13.12	14.68	14.07	14.90	14.65	14.83	14.66	14.71	17.41	14.45	14.25	15.51
	3	18.76	18.16	18.51	15.64	20.07	18.66	19.58	14.44	18.82	19.57	19.29	18.66	19.67	18.31	19.70
	4	10.21	11.07	13.26	12.15	14.42	10.96	15.16	9.95	12.33	13.02	14.45	12.66	12.88	10.77	15.86
2004Average		12.65	13.12	14.90	12.63	15.58	13.24	15.79	12.19	14.81	16.03	14.53	15.76	14.62	15.59	15.54
2003	1	9.41	10.56	15.47	9.33	17.55	10.79	9.77	11.84	13.36	14.24	17.33	11.86	12.55	11.24	15.73
	2	12.67	13.08	13.91	13.46	15.15	12.68	14.00	12.41	11.43	15.29	13.18	12.90	13.40	12.21	13.28
	3	14.16	15.84	17.42	16.85	17.23	16.13	18.10	15.74	16.38	17.17	18.48	16.53	16.15	15.69	16.23
	4	9.05	10.59	13.51	11.19	15.19	9.07	12.71	8.11	10.82	12.54	15.81	10.96	12.75	8.83	12.94
2004Average		11.32	12.52	15.08	12.71	16.28	12.17	14.85	11.51	13.05	16.87	13.60	12.69	13.71	11.99	14.54
2004	1	9.79	11.68	14.02	11.86	14.93	10.79	14.12	9.80	13.57	13.43	12.55	11.26	13.60	10.29	15.30
	2	13.06	12.92	16.05	14.46	15.40	13.54	14.75	13.43	15.00	16.62	13.16	13.89	14.47	13.17	15.74
	3	17.30	16.09	17.55	16.41	19.32	17.37	18.55	19.81	17.84	18.65	19.42	17.44	18.20	17.00	19.22
	4	10.04	10.94	13.21	10.45	14.35	11.40	14.11	11.21	12.07	12.50	14.46	11.70	12.38	10.28	13.65
2004Average		12.55	12.91	15.21	13.30	16.00	13.28	15.38	9.80	14.50	16.53	13.71	13.38	14.58	15.98	15.52
Design Value:		12.1	12.8	15.0	12.8	15.9	12.9	11.4	14.1	14.2	16.4	13.9	14.3	12.6	15.3	15.4

Important Notes:

- 1) Colored headers indicate the monitors that didn't collect sufficient data¹ to show attainment.
- 2) All values in the table are in $\mu\text{g}/\text{m}^3$
- 3) No substitutions² were made to compensate for insufficient data as are allowed by EPA regs.
- 4) Data from sites having collocated monitors (RIVA, PGEA, FMCA) was not merged, following EPA.
- 5) Data has not yet been certified³, hence small changes may be made to the base data before certification 6/30/05 that would change these DV's.
- 6) Red indicates a site/monitor exceeds the annual PM2.5 NAAQS (15.0 $\mu\text{g}/\text{m}^3$).
- 7) See table below to convert monitor/site abbreviations to names.

¹ 75% data capture

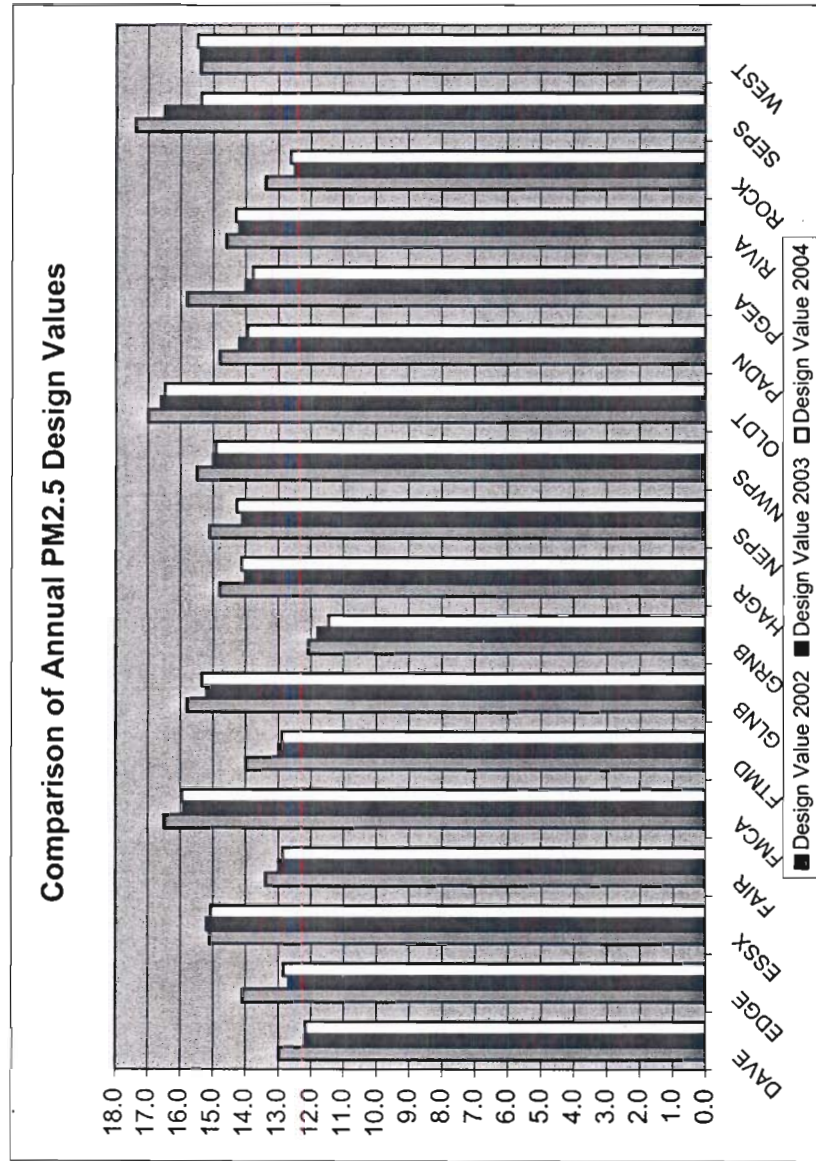
² EPA allows various substitution schemes depending on whether you are trying to show attainment or non-attainment.

³ Our Director signs a certification statement by 6/30/05 declaring all the 2004 data to be complete and valid. Data may not be changed after certification.

Draft PM2.5, Design Values for 2002-2004

These results are based on quality assured data.

Official certification of the data is not expected until June, 2005.



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Table 2 24-Hour Pm2.5 Design Values for 2004

Monitor	2002	2003	2004	DV
Davidsonville	26.5	31.5	36.8	31.6
Edgewood	28.8	37.5	30.3	32.2
Essex	34.1	38.6	36.3	36.3
Fair Hill	30.2	36.2	29.8	32.1
Fairfield FMC	39.5	38.6	38.4	38.8
Fort Meade	29.1	35.8	34.6	33.2
Glen Burnie	42.7	39.3	37.0	39.7
Greenbelt	27.0	32.3	16.9	25.4
Hagerstown	36.0	34.3	39.2	36.5
North_East PS	32.2	31.9	35.4	33.2
NorthWest PS	32.6	39.5	33.5	35.2
Old Town	38.0	42.2	40.6	40.3
P.G. Equestrian	26.6	31.5	37.7	31.9
Padonia	31.8	35.1	33.4	33.4
Riviera Beach	39.1	36.9	35.2	37.1
Rockville	28.9	32.1	31.7	30.9
South East PS	35.0	35.4	37.0	35.8
Westport	38.0	40.3	37.7	38.7

Same notes as under table 1 apply to table 2, except #6.
 There were no violations of the 24-hour NAAQS, 65 µg/m³.

Table 3 Monitor/Site abbreviation to Site Name

Abrev	Name	AIRS Code
DAVE	Davidsonville Family Recreation Center	240030014
FTMD	Fort Meade	240030019
GLNB	Glen Burnie - AA County Public Works	240031003
RIVA	Riviera Beach Elementary School	240032002
PADN	Padonia Elementary School	240051007
ESSX	Essex	240053001

Draft PM2.5, Design Values for 2002-2004

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Abrev	Name	AIRS Code
FAIR	Fair Hill	240150003
EDGE	Edgewood Army Base	240251001
ROCK	Rockville	240313001
GRNB	Greenbelt	240330002
PGEA	P.G. Equestrian Center	240338003
HAGR	Hagerstown - Roxbury Correctional Center	240430009
NEPS	North_East Police Station	245100006
NWPS	NorthWest Police Station	245100007
SEPS	South East Police Station	245100008
FMCA	Fairfield FMC	245100035
OLDT	Old Town Fire Department	245100040
WEST	Westport Elementary School	245100049