

Item 13

**NMP, 2004 Main Tower 306200-foot Joint Frequency Distribution
(1999 – 2003)**

(On Compact Disk)

Joint Frequency Distribution Report (JFD)

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site

Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - A

Extremely Unstable (Delta T / 168 Ft. <= -1.75 Deg F)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (0)	0.1 (63)	0.2 (107)	0.3 (137)	0.3 (110)	0.3 (126)
NNE	0.0 (0)	0.1 (25)	0.2 (90)	0.2 (85)	0.1 (55)	0.2 (69)
NE	0.0 (1)	0.0 (9)	0.1 (23)	0.0 (12)	0.0 (3)	0.0 (2)
ENE	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (1)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (2)	0.0 (14)	0.0 (7)	0.0 (2)	0.0 (0)
SE	0.0 (0)	0.0 (7)	0.1 (33)	0.1 (33)	0.0 (21)	0.1 (48)
SSE	0.0 (0)	0.0 (7)	0.0 (17)	0.1 (30)	0.0 (9)	0.0 (3)
S	0.0 (0)	0.0 (7)	0.0 (17)	0.0 (6)	0.0 (1)	0.0 (0)
SSW	0.0 (0)	0.0 (2)	0.0 (4)	0.0 (6)	0.0 (0)	0.0 (0)
SW	0.0 (1)	0.0 (3)	0.0 (2)	0.0 (1)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (2)	0.3 (118)	0.5 (219)	0.1 (58)	0.2 (68)
W	0.0 (1)	0.0 (11)	0.1 (38)	0.1 (39)	0.0 (19)	0.3 (109)
WNW	0.0 (0)	0.1 (59)	0.2 (86)	0.1 (42)	0.1 (32)	0.6 (244)
NW	0.0 (1)	0.2 (98)	0.3 (125)	0.2 (69)	0.2 (90)	0.6 (253)
NNW	0.0 (4)	0.3 (115)	0.3 (109)	0.2 (108)	0.2 (91)	0.3 (124)
Total	0.0 (9)	1.0 (412)	1.8 (785)	1.8 (796)	1.1 (491)	2.4 (1046)

Summary for Stability Class - A

Number of Calm Hours (<1.0 MPH) 0
 Number of Missing Wind Observations 46
 Number of Hours in this Stability Class 3585 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site

Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - B Moderately Unstable (-1.75 Deg F < Delta T / 168 Ft. <

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (0)	0.1 (26)	0.1 (27)	0.2 (83)	0.1 (64)	0.1 (42)
NNE	0.0 (1)	0.1 (28)	0.1 (30)	0.1 (38)	0.1 (51)	0.1 (49)
NE	0.0 (0)	0.0 (11)	0.0 (17)	0.0 (15)	0.0 (1)	0.0 (1)
ENE	0.0 (0)	0.0 (3)	0.0 (4)	0.0 (1)	0.0 (0)	0.0 (0)
E	0.0 (1)	0.0 (1)	0.0 (5)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (1)	0.0 (5)	0.0 (21)	0.0 (6)	0.0 (2)	0.0 (0)
SE	0.0 (0)	0.0 (8)	0.1 (36)	0.1 (48)	0.0 (18)	0.1 (49)
SSE	0.0 (0)	0.0 (12)	0.1 (47)	0.1 (34)	0.0 (8)	0.0 (2)
S	0.0 (2)	0.0 (4)	0.1 (35)	0.0 (16)	0.0 (8)	0.0 (2)
SSW	0.0 (0)	0.0 (10)	0.0 (10)	0.0 (6)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (5)	0.0 (3)	0.0 (3)	0.0 (3)	0.0 (0)
WSW	0.0 (0)	0.0 (9)	0.1 (52)	0.2 (71)	0.1 (32)	0.1 (62)
W	0.0 (1)	0.0 (20)	0.2 (85)	0.1 (57)	0.1 (56)	0.3 (134)
WNW	0.0 (0)	0.1 (24)	0.1 (46)	0.1 (49)	0.1 (42)	0.3 (117)
NW	0.0 (2)	0.0 (19)	0.1 (23)	0.2 (90)	0.2 (73)	0.3 (130)
NNW	0.0 (2)	0.0 (13)	0.0 (21)	0.2 (72)	0.1 (58)	0.1 (32)
Total	0.0 (10)	0.5 (198)	1.1 (462)	1.4 (589)	1.0 (416)	1.4 (620)

Summary for Stability Class - B

Number of Calm Hours (<1.0 MPH)	0			
Number of Missing Wind Observations	23			
Number of Hours in this Stability Class	2318	of	43203	Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site

Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - C

Slightly Unstable (-1.57 Deg F < Delta T / 168 Ft. <=

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (3)	0.1 (22)	0.1 (43)	0.3 (110)	0.1 (52)	0.1 (49)
NNE	0.0 (0)	0.1 (35)	0.1 (54)	0.2 (88)	0.1 (53)	0.2 (66)
NE	0.0 (0)	0.1 (27)	0.1 (25)	0.0 (20)	0.0 (14)	0.0 (8)
ENE	0.0 (0)	0.0 (10)	0.0 (7)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (1)	0.0 (8)	0.0 (3)	0.0 (3)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (10)	0.1 (34)	0.0 (8)	0.0 (1)	0.0 (0)
SE	0.0 (1)	0.0 (14)	0.2 (68)	0.2 (78)	0.1 (31)	0.1 (59)
SSE	0.0 (0)	0.0 (13)	0.1 (54)	0.1 (49)	0.0 (17)	0.0 (5)
S	0.0 (1)	0.0 (15)	0.2 (71)	0.1 (45)	0.0 (21)	0.0 (2)
SSW	0.0 (0)	0.0 (11)	0.0 (21)	0.0 (12)	0.0 (2)	0.0 (0)
SW	0.0 (0)	0.0 (6)	0.0 (8)	0.0 (7)	0.0 (1)	0.0 (5)
WSW	0.0 (0)	0.0 (9)	0.1 (60)	0.2 (100)	0.1 (50)	0.2 (101)
W	0.0 (2)	0.1 (35)	0.3 (128)	0.3 (117)	0.2 (80)	0.4 (182)
WNW	0.0 (4)	0.1 (26)	0.2 (67)	0.2 (74)	0.2 (65)	0.4 (166)
NW	0.0 (6)	0.1 (22)	0.1 (40)	0.3 (128)	0.2 (85)	0.2 (70)
NNW	0.0 (1)	0.0 (13)	0.1 (34)	0.2 (84)	0.2 (66)	0.1 (30)
Total	0.0 (19)	0.6 (276)	1.7 (717)	2.1 (923)	1.2 (538)	1.7 (743)

Summary for Stability Class - C

Number of Calm Hours (<1.0 MPH) 0
 Number of Missing Wind Observations 26
 Number of Hours in this Stability Class 3242 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - D Neutral (-1.38 Deg F < Delta T / 168 Ft. <= -0.46 Deg

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (17)	0.2 (83)	0.4 (177)	0.4 (193)	0.2 (86)	0.2 (104)
NNE	0.1 (22)	0.4 (168)	0.6 (269)	0.9 (398)	0.5 (226)	0.3 (113)
NE	0.1 (25)	0.6 (242)	0.8 (348)	0.6 (260)	0.1 (60)	0.0 (15)
ENE	0.1 (24)	0.3 (135)	0.3 (119)	0.0 (19)	0.0 (0)	0.0 (0)
E	0.0 (16)	0.3 (111)	0.3 (140)	0.1 (54)	0.0 (5)	0.0 (0)
ESE	0.0 (17)	0.3 (127)	0.5 (237)	0.7 (324)	0.2 (66)	0.0 (13)
SE	0.0 (20)	0.4 (171)	1.1 (485)	2.1 (918)	0.8 (363)	0.4 (156)
SSE	0.0 (15)	0.3 (124)	0.8 (353)	1.1 (460)	0.5 (206)	0.2 (93)
S	0.0 (13)	0.2 (103)	1.0 (422)	1.4 (592)	0.4 (178)	0.1 (27)
SSW	0.0 (15)	0.2 (82)	0.8 (365)	1.1 (466)	0.1 (34)	0.0 (11)
SW	0.0 (13)	0.1 (54)	0.4 (171)	1.0 (449)	0.4 (156)	0.1 (34)
WSW	0.0 (17)	0.2 (99)	0.7 (313)	1.3 (566)	0.7 (323)	1.1 (458)
W	0.0 (16)	0.4 (173)	0.9 (376)	1.0 (445)	0.9 (372)	1.5 (629)
WNW	0.1 (24)	0.3 (109)	0.5 (204)	0.7 (313)	0.5 (234)	0.9 (377)
NW	0.1 (23)	0.2 (84)	0.4 (188)	0.6 (269)	0.4 (170)	0.3 (117)
NNW	0.0 (20)	0.2 (95)	0.3 (135)	0.5 (203)	0.2 (98)	0.1 (51)
Total	0.7 (297)	4.5 (1960)	10.0 (4302)	13.7 (5929)	6.0 (2577)	5.1 (2198)

Summary for Stability Class - D

Number of Calm Hours (<1.0 MPH) 7
 Number of Missing Wind Observations 165
 Number of Hours in this Stability Class 17428 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability Class

Wind Data from: Main 200' Site

Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - E Slightly Stable (-0.46 Deg F < Delta T / 168 Ft. <= 1.)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.1 (23)	0.2 (68)	0.2 (67)	0.1 (47)	0.1 (23)	0.1 (22)
NNE	0.1 (22)	0.2 (72)	0.2 (83)	0.1 (59)	0.1 (26)	0.1 (30)
NE	0.1 (22)	0.3 (127)	0.3 (124)	0.1 (36)	0.0 (5)	0.0 (1)
ENE	0.0 (13)	0.3 (142)	0.2 (74)	0.0 (5)	0.0 (0)	0.0 (0)
E	0.0 (15)	0.2 (88)	0.2 (107)	0.0 (21)	0.0 (0)	0.0 (0)
ESE	0.0 (20)	0.2 (72)	0.4 (167)	0.3 (135)	0.0 (17)	0.0 (0)
SE	0.0 (16)	0.1 (63)	0.8 (332)	2.0 (845)	0.6 (267)	0.1 (48)
SSE	0.0 (8)	0.2 (69)	0.6 (267)	2.0 (865)	0.8 (334)	0.1 (48)
S	0.0 (13)	0.2 (70)	0.5 (226)	1.9 (815)	0.5 (225)	0.0 (4)
SSW	0.0 (17)	0.1 (57)	0.5 (225)	1.2 (529)	0.1 (41)	0.0 (1)
SW	0.1 (25)	0.2 (90)	0.5 (203)	0.6 (270)	0.1 (52)	0.0 (15)
WSW	0.0 (21)	0.3 (131)	0.9 (399)	1.0 (450)	0.6 (239)	0.5 (214)
W	0.0 (15)	0.3 (135)	0.5 (203)	0.4 (173)	0.3 (110)	0.4 (166)
WNW	0.0 (18)	0.2 (84)	0.1 (59)	0.2 (67)	0.1 (54)	0.1 (63)
NW	0.0 (13)	0.1 (51)	0.1 (50)	0.1 (51)	0.0 (17)	0.0 (7)
NNW	0.0 (15)	0.1 (49)	0.1 (46)	0.1 (23)	0.0 (13)	0.0 (6)
Total	0.6 (276)	3.2 (1368)	6.1 (2632)	10.2 (4391)	3.3 (1423)	1.4 (625)

Summary for Stability Class - E

Number of Calm Hours (<1.0 MPH) 8
 Number of Missing Wind Observations 43
 Number of Hours in this Stability Class 10758 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - F Moderately Stable (1.38 Deg F < Delta T / 168 Ft. <= 3)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (10)	0.0 (20)	0.0 (19)	0.0 (21)	0.0 (14)	0.0 (11)
NNE	0.0 (7)	0.1 (29)	0.1 (23)	0.0 (21)	0.0 (12)	0.0 (5)
NE	0.0 (16)	0.1 (42)	0.1 (30)	0.0 (8)	0.0 (1)	0.0 (0)
ENE	0.0 (20)	0.1 (59)	0.1 (36)	0.0 (1)	0.0 (0)	0.0 (0)
E	0.0 (13)	0.1 (49)	0.2 (74)	0.0 (11)	0.0 (0)	0.0 (0)
ESE	0.0 (12)	0.1 (34)	0.1 (63)	0.1 (47)	0.0 (0)	0.0 (0)
SE	0.0 (6)	0.1 (32)	0.2 (76)	0.3 (131)	0.0 (7)	0.0 (1)
SSE	0.0 (6)	0.1 (39)	0.2 (81)	0.6 (250)	0.0 (18)	0.0 (0)
S	0.0 (13)	0.1 (30)	0.2 (69)	0.4 (188)	0.0 (14)	0.0 (0)
SSW	0.0 (10)	0.1 (42)	0.2 (71)	0.4 (161)	0.0 (12)	0.0 (0)
SW	0.0 (21)	0.2 (74)	0.3 (150)	0.3 (121)	0.0 (3)	0.0 (2)
WSW	0.0 (19)	0.2 (83)	0.3 (145)	0.2 (102)	0.1 (26)	0.1 (22)
W	0.0 (16)	0.1 (54)	0.2 (67)	0.1 (35)	0.0 (17)	0.0 (20)
WNW	0.0 (13)	0.1 (44)	0.1 (22)	0.0 (13)	0.0 (6)	0.0 (5)
NW	0.0 (8)	0.1 (23)	0.0 (16)	0.0 (3)	0.0 (2)	0.0 (1)
NNW	0.0 (9)	0.1 (24)	0.0 (21)	0.0 (9)	0.0 (8)	0.0 (0)
Total	0.5 (199)	1.6 (678)	2.2 (963)	2.6 (1122)	0.3 (140)	0.2 (67)

Summary for Stability Class - F

Number of Calm Hours (<1.0 MPH) 9
 Number of Missing Wind Observations 2
 Number of Hours in this Stability Class 3171 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - G Extremely Stable (3.69 Deg F < Delta T / 168 Ft.)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (13)	0.1 (32)	0.0 (8)	0.0 (7)	0.0 (17)	0.0 (4)
NNE	0.0 (21)	0.1 (22)	0.0 (11)	0.0 (16)	0.0 (12)	0.0 (4)
NE	0.1 (23)	0.1 (57)	0.0 (5)	0.0 (4)	0.0 (2)	0.0 (0)
ENE	0.1 (28)	0.1 (58)	0.0 (16)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.1 (24)	0.2 (72)	0.1 (41)	0.0 (5)	0.0 (0)	0.0 (0)
ESE	0.0 (18)	0.1 (45)	0.1 (54)	0.1 (38)	0.0 (0)	0.0 (0)
SE	0.0 (17)	0.2 (67)	0.2 (70)	0.1 (63)	0.0 (2)	0.0 (0)
SSE	0.1 (24)	0.1 (53)	0.2 (99)	0.3 (130)	0.0 (0)	0.0 (0)
S	0.1 (29)	0.1 (50)	0.2 (106)	0.3 (138)	0.0 (2)	0.0 (0)
SSW	0.1 (23)	0.2 (75)	0.2 (97)	0.2 (68)	0.0 (0)	0.0 (0)
SW	0.0 (15)	0.2 (102)	0.4 (162)	0.2 (69)	0.0 (0)	0.0 (0)
WSW	0.1 (22)	0.2 (100)	0.3 (119)	0.1 (29)	0.0 (4)	0.0 (6)
W	0.0 (21)	0.1 (43)	0.1 (27)	0.0 (8)	0.0 (6)	0.0 (12)
WNW	0.0 (17)	0.1 (34)	0.0 (4)	0.0 (5)	0.0 (2)	0.0 (3)
NW	0.0 (11)	0.0 (17)	0.0 (6)	0.0 (6)	0.0 (6)	0.0 (6)
NNW	0.0 (17)	0.1 (24)	0.0 (11)	0.0 (6)	0.0 (7)	0.0 (4)
Total	0.7 (323)	2.0 (851)	1.9 (836)	1.4 (592)	0.1 (60)	0.1 (39)

Summary for Stability Class - G

Number of Calm Hours (<1.0 MPH) 11
 Number of Missing Wind Observations 0
 Number of Hours in this Stability Class 2701 of 43203 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 200' Site

Atmospheric Stability from: Main 200 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - All (A-G)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.2 (66)	0.7 (314)	1.0 (448)	1.4 (598)	0.8 (366)	0.8 (358)
NNE	0.2 (73)	0.9 (379)	1.3 (560)	1.6 (705)	1.0 (435)	0.8 (336)
NE	0.2 (87)	1.2 (515)	1.3 (572)	0.8 (355)	0.2 (86)	0.1 (27)
ENE	0.2 (86)	0.9 (408)	0.6 (256)	0.1 (27)	0.0 (0)	0.0 (0)
E	0.2 (70)	0.8 (330)	0.8 (372)	0.2 (95)	0.0 (5)	0.0 (0)
ESE	0.2 (68)	0.7 (295)	1.3 (590)	1.3 (565)	0.2 (88)	0.0 (13)
SE	0.1 (60)	0.8 (362)	2.5 (1100)	4.8 (2116)	1.6 (709)	0.8 (361)
SSE	0.1 (53)	0.7 (317)	2.1 (918)	4.1 (1818)	1.4 (592)	0.3 (151)
S	0.2 (71)	0.6 (279)	2.2 (946)	4.1 (1800)	1.0 (449)	0.1 (35)
SSW	0.1 (65)	0.6 (279)	1.8 (793)	2.8 (1248)	0.2 (89)	0.0 (12)
SW	0.2 (75)	0.8 (334)	1.6 (699)	2.1 (920)	0.5 (215)	0.1 (56)
WSW	0.2 (79)	1.0 (433)	2.8 (1206)	3.5 (1537)	1.7 (732)	2.1 (931)
W	0.2 (72)	1.1 (471)	2.1 (924)	2.0 (874)	1.5 (660)	2.9 (1252)
WNW	0.2 (76)	0.9 (380)	1.1 (488)	1.3 (563)	1.0 (435)	2.2 (975)
NW	0.1 (64)	0.7 (314)	1.0 (448)	1.4 (616)	1.0 (443)	1.3 (584)
NNW	0.2 (68)	0.8 (333)	0.9 (377)	1.2 (505)	0.8 (341)	0.6 (247)
Total	2.6 (1133)	13.1 (5743)	24.4 (10697)	32.7 (14342)	12.9 (5645)	12.2 (5338)

Summary for Stability Class - All (A-G)

Number of Calm Hours (<1.0 MPH)	35
Number of Invalid Hours	926
Total Hours in Period	43824

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction

Wind Data from: Main 200' Site

From: 1/1/1999 To 12/31/2003

Total Wind Category

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.2 (66)	0.7 (316)	1.0 (456)	1.4 (598)	0.8 (366)	0.8 (358)
NNE	0.2 (73)	0.9 (384)	1.3 (564)	1.6 (717)	1.0 (435)	0.8 (336)
NE	0.2 (87)	1.2 (518)	1.3 (576)	0.8 (357)	0.2 (86)	0.1 (27)
ENE	0.2 (86)	0.9 (411)	0.6 (257)	0.1 (27)	0.0 (0)	0.0 (0)
E	0.2 (71)	0.8 (336)	0.9 (374)	0.2 (95)	0.0 (5)	0.0 (0)
ESE	0.2 (69)	0.7 (297)	1.4 (594)	1.3 (565)	0.2 (88)	0.0 (13)
SE	0.1 (60)	0.8 (365)	2.5 (1114)	4.8 (2125)	1.6 (711)	0.8 (361)
SSE	0.1 (53)	0.7 (319)	2.1 (924)	4.2 (1827)	1.4 (606)	0.3 (151)
S	0.2 (71)	0.6 (284)	2.2 (956)	4.1 (1811)	1.0 (453)	0.1 (35)
SSW	0.1 (65)	0.6 (281)	1.8 (799)	2.9 (1267)	0.2 (89)	0.0 (12)
SW	0.2 (75)	0.8 (339)	1.6 (703)	2.2 (946)	0.5 (221)	0.1 (56)
WSW	0.2 (79)	1.0 (440)	2.8 (1219)	3.5 (1550)	1.7 (740)	2.2 (944)
W	0.2 (73)	1.1 (475)	2.1 (929)	2.0 (879)	1.5 (660)	2.9 (1253)
WNW	0.2 (77)	0.9 (382)	1.1 (490)	1.3 (567)	1.0 (441)	2.3 (989)
NW	0.1 (64)	0.7 (315)	1.0 (449)	1.4 (618)	1.0 (451)	1.3 (591)
NNW	0.2 (69)	0.8 (340)	0.9 (379)	1.2 (505)	0.8 (341)	0.6 (248)
Total	2.6 (1138)	13.2 (5802)	24.6 (10783)	33.0 (14454)	13.0 (5693)	12.3 (5374)

Summary for Total Wind Category

Number of Calm Hours (<1.0 MPH)	35
Number of Invalid Hours	580
Total Hours in Period	43824

Joint Frequency Distribution Report (JFD)

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - A

Extremely Unstable (Delta T / 72 Ft. <= -0.75 Deg F)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.1 (29)	0.7 (295)	0.7 (318)	0.5 (214)	0.1 (61)	0.0 (11)
NNE	0.0 (6)	0.5 (221)	0.3 (142)	0.1 (31)	0.0 (1)	0.0 (0)
NE	0.0 (6)	0.2 (104)	0.1 (25)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (3)	0.0 (14)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (7)	0.0 (13)	0.0 (6)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (1)	0.1 (52)	0.1 (48)	0.0 (5)	0.0 (0)	0.0 (0)
SE	0.0 (4)	0.2 (86)	0.3 (126)	0.0 (12)	0.0 (0)	0.0 (0)
SSE	0.0 (1)	0.2 (91)	0.2 (91)	0.0 (11)	0.0 (0)	0.0 (0)
S	0.0 (4)	0.2 (86)	0.2 (72)	0.0 (9)	0.0 (0)	0.0 (0)
SSW	0.0 (2)	0.1 (48)	0.1 (36)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (8)	0.1 (37)	0.1 (42)	0.0 (8)	0.0 (0)	0.0 (0)
WSW	0.0 (6)	1.0 (445)	1.1 (453)	0.3 (116)	0.2 (84)	0.2 (70)
W	0.0 (17)	0.5 (214)	0.8 (344)	0.6 (275)	0.5 (205)	0.6 (264)
WNW	0.1 (38)	0.6 (247)	0.5 (198)	0.4 (175)	0.4 (161)	0.9 (377)
NW	0.1 (56)	0.7 (300)	0.6 (238)	0.9 (368)	0.6 (254)	0.3 (112)
NNW	0.1 (55)	0.6 (279)	0.6 (246)	0.6 (247)	0.1 (31)	0.0 (2)
Total	0.6 (243)	5.9 (2532)	5.5 (2385)	3.4 (1471)	1.8 (797)	1.9 (836)

Summary for Stability Class - A

Number of Calm Hours (<1.0 MPH) 6
 Number of Missing Wind Observations 39
 Number of Hours in this Stability Class 8303 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - B

Moderately Unstable (-0.75 Deg F < Delta T / 72 Ft. <=

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (8)	0.1 (42)	0.2 (67)	0.0 (20)	0.0 (3)	0.0 (1)
NNE	0.0 (1)	0.1 (56)	0.1 (50)	0.0 (12)	0.0 (0)	0.0 (0)
NE	0.0 (10)	0.1 (40)	0.0 (11)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (5)	0.0 (15)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (1)	0.0 (11)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (2)	0.1 (24)	0.0 (9)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (1)	0.1 (32)	0.1 (34)	0.0 (4)	0.0 (0)	0.0 (0)
SSE	0.0 (3)	0.1 (33)	0.1 (38)	0.0 (6)	0.0 (0)	0.0 (0)
S	0.0 (1)	0.1 (49)	0.1 (46)	0.0 (7)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (20)	0.0 (15)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (4)	0.0 (14)	0.0 (14)	0.0 (6)	0.0 (0)	0.0 (0)
WSW	0.0 (2)	0.1 (61)	0.1 (60)	0.1 (38)	0.0 (20)	0.1 (23)
W	0.0 (7)	0.1 (41)	0.2 (83)	0.2 (92)	0.2 (65)	0.1 (61)
WNW	0.0 (7)	0.0 (19)	0.1 (57)	0.2 (80)	0.1 (35)	0.1 (61)
NW	0.0 (5)	0.0 (15)	0.2 (73)	0.2 (90)	0.1 (29)	0.0 (11)
NNW	0.0 (12)	0.1 (31)	0.1 (50)	0.0 (21)	0.0 (0)	0.0 (1)
Total	0.2 (69)	1.2 (503)	1.4 (608)	0.9 (376)	0.4 (152)	0.4 (158)

Summary for Stability Class - B

Number of Calm Hours (<1.0 MPH) 2
 Number of Missing Wind Observations 10
 Number of Hours in this Stability Class 1876 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - C

Slightly Unstable (-0.67 Deg F < Delta T / 72 Ft. <= -

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (11)	0.1 (39)	0.2 (82)	0.0 (17)	0.0 (6)	0.0 (0)
NNE	0.0 (8)	0.2 (72)	0.2 (77)	0.1 (32)	0.0 (0)	0.0 (0)
NE	0.0 (8)	0.1 (58)	0.0 (21)	0.0 (10)	0.0 (0)	0.0 (0)
ENE	0.0 (7)	0.0 (13)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (6)	0.0 (11)	0.0 (3)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (3)	0.1 (27)	0.0 (7)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (7)	0.1 (50)	0.1 (63)	0.0 (15)	0.0 (0)	0.0 (0)
SSE	0.0 (4)	0.1 (41)	0.1 (52)	0.0 (6)	0.0 (0)	0.0 (0)
S	0.0 (5)	0.1 (37)	0.2 (65)	0.0 (6)	0.0 (0)	0.0 (0)
SSW	0.0 (2)	0.1 (28)	0.1 (24)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (1)	0.0 (10)	0.1 (24)	0.0 (11)	0.0 (4)	0.0 (0)
WSW	0.0 (2)	0.1 (59)	0.2 (81)	0.1 (37)	0.0 (20)	0.0 (15)
W	0.0 (3)	0.1 (47)	0.2 (66)	0.3 (112)	0.1 (57)	0.2 (65)
WNW	0.0 (6)	0.0 (19)	0.2 (73)	0.2 (66)	0.1 (43)	0.1 (58)
NW	0.0 (11)	0.1 (23)	0.2 (83)	0.2 (75)	0.0 (14)	0.0 (6)
NNW	0.0 (4)	0.1 (31)	0.1 (50)	0.0 (16)	0.0 (1)	0.0 (0)
Total	0.2 (88)	1.3 (565)	1.8 (771)	0.9 (403)	0.3 (145)	0.3 (144)

Summary for Stability Class - C

Number of Calm Hours (<1.0 MPH) 1
 Number of Missing Wind Observations 3
 Number of Hours in this Stability Class 2119 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - D

Neutral (-0.59 Deg F < Delta T / 72 Ft. <= -0.20 Deg F

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.1 (51)	0.5 (215)	0.4 (155)	0.1 (49)	0.0 (8)	0.0 (0)
NNE	0.1 (56)	1.0 (418)	1.0 (420)	0.0 (19)	0.0 (1)	0.0 (0)
NE	0.3 (136)	1.3 (566)	0.7 (297)	0.1 (27)	0.0 (0)	0.0 (0)
ENE	0.3 (147)	0.7 (316)	0.0 (11)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.3 (109)	0.7 (303)	0.1 (29)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.2 (80)	1.3 (580)	0.8 (344)	0.0 (18)	0.0 (0)	0.0 (0)
SE	0.2 (79)	1.7 (730)	1.7 (724)	0.2 (65)	0.0 (2)	0.0 (0)
SSE	0.1 (45)	1.1 (472)	1.0 (415)	0.2 (75)	0.0 (0)	0.0 (0)
S	0.1 (49)	1.1 (476)	1.4 (617)	0.1 (40)	0.0 (0)	0.0 (0)
SSW	0.1 (24)	0.7 (310)	1.1 (490)	0.0 (12)	0.0 (0)	0.0 (1)
SW	0.1 (34)	0.4 (155)	1.0 (416)	0.3 (110)	0.0 (3)	0.0 (0)
WSW	0.1 (35)	0.8 (363)	0.9 (394)	0.5 (214)	0.2 (101)	0.1 (49)
W	0.1 (46)	0.5 (200)	0.6 (244)	0.8 (351)	0.5 (229)	0.5 (218)
WNW	0.1 (42)	0.3 (124)	0.5 (202)	0.5 (207)	0.3 (134)	0.3 (131)
NW	0.1 (49)	0.4 (151)	0.5 (196)	0.3 (116)	0.1 (36)	0.0 (9)
NNW	0.1 (45)	0.3 (132)	0.3 (118)	0.1 (52)	0.0 (2)	0.0 (0)
Total	2.4 (1027)	12.8 (5511)	11.8 (5072)	3.1 (1355)	1.2 (516)	0.9 (408)

Summary for Stability Class - D

Number of Calm Hours (<1.0 MPH) 15
 Number of Missing Wind Observations 20
 Number of Hours in this Stability Class 13909 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
% Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site Atmospheric Stability from: Main 100 Ft
From: 1/1/1999 To 12/31/2003

Stability Class - E Slightly Stable (-0.20 Deg F < Delta T / 72 Ft. <= .55)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.1 (31)	0.2 (106)	0.1 (29)	0.0 (2)	0.0 (2)	0.0 (0)
NNE	0.1 (59)	0.5 (202)	0.1 (29)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.3 (109)	0.6 (248)	0.1 (35)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.4 (154)	0.4 (177)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.4 (163)	0.5 (201)	0.0 (6)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.4 (161)	1.3 (573)	0.3 (141)	0.0 (8)	0.0 (0)	0.0 (0)
SE	0.3 (132)	2.5 (1090)	1.3 (571)	0.1 (48)	0.0 (0)	0.0 (0)
SSE	0.2 (101)	2.1 (887)	1.2 (513)	0.1 (39)	0.0 (0)	0.0 (0)
S	0.2 (85)	2.0 (842)	1.7 (738)	0.0 (12)	0.0 (0)	0.0 (0)
SSW	0.2 (86)	0.9 (392)	0.5 (229)	0.0 (4)	0.0 (0)	0.0 (0)
SW	0.2 (79)	0.8 (365)	0.7 (291)	0.1 (49)	0.0 (0)	0.0 (0)
WSW	0.2 (71)	1.0 (434)	0.9 (376)	0.3 (147)	0.1 (42)	0.1 (27)
W	0.1 (41)	0.3 (124)	0.3 (140)	0.3 (115)	0.2 (79)	0.2 (88)
WNW	0.1 (48)	0.1 (52)	0.1 (56)	0.2 (86)	0.1 (46)	0.1 (60)
NW	0.1 (40)	0.1 (50)	0.1 (37)	0.0 (18)	0.0 (7)	0.0 (0)
NNW	0.1 (56)	0.1 (42)	0.1 (23)	0.0 (9)	0.0 (0)	0.0 (0)
Total	3.3 (1416)	13.4 (5785)	7.5 (3214)	1.2 (537)	0.4 (176)	0.4 (175)

Summary for Stability Class - E

Number of Calm Hours (<1.0 MPH) 33
Number of Missing Wind Observations 5
Number of Hours in this Stability Class 11308 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - F

Moderately Stable (0.59 Deg F < Delta T / 72 Ft. <= 1.

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (15)	0.1 (26)	0.0 (3)	0.0 (1)	0.0 (0)	0.0 (0)
NNE	0.0 (15)	0.1 (26)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.1 (34)	0.0 (21)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.1 (54)	0.0 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.2 (98)	0.2 (75)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.3 (111)	0.4 (151)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.2 (84)	0.5 (233)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)
SSE	0.2 (72)	0.8 (355)	0.0 (16)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.2 (65)	0.8 (328)	0.1 (35)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.1 (56)	0.3 (144)	0.0 (18)	0.0 (1)	0.0 (0)	0.0 (0)
SW	0.1 (48)	0.2 (85)	0.1 (22)	0.0 (3)	0.0 (0)	0.0 (0)
WSW	0.1 (43)	0.3 (132)	0.1 (62)	0.1 (24)	0.0 (6)	0.0 (1)
W	0.0 (17)	0.1 (55)	0.0 (21)	0.0 (18)	0.0 (5)	0.0 (5)
WNW	0.0 (17)	0.0 (18)	0.0 (7)	0.0 (6)	0.0 (0)	0.0 (1)
NW	0.0 (11)	0.0 (8)	0.0 (4)	0.0 (0)	0.0 (1)	0.0 (1)
NNW	0.0 (10)	0.0 (11)	0.0 (3)	0.0 (1)	0.0 (0)	0.0 (0)
Total	1.7 (750)	3.9 (1678)	0.5 (196)	0.1 (55)	0.0 (12)	0.0 (8)

Summary for Stability Class - F

Number of Calm Hours (<1.0 MPH) 20
 Number of Missing Wind Observations 1
 Number of Hours in this Stability Class 2700 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - G

Extremely Stable (1.58 Deg F < Delta T / 72 Ft.)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.0 (5)	0.0 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (8)	0.0 (9)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (14)	0.0 (5)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.1 (24)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.2 (92)	0.0 (18)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.5 (227)	0.3 (126)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	1.2 (521)	0.6 (265)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.7 (302)	1.0 (445)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.4 (151)	0.6 (259)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.1 (59)	0.1 (51)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.1 (25)	0.0 (18)	0.0 (4)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.1 (22)	0.1 (62)	0.1 (23)	0.0 (4)	0.0 (1)	0.0 (1)
W	0.0 (14)	0.1 (38)	0.0 (9)	0.0 (2)	0.0 (0)	0.0 (0)
WNW	0.0 (19)	0.0 (10)	0.0 (5)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (12)	0.0 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (8)	0.0 (8)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)
Total	3.5 (1503)	3.1 (1328)	0.1 (51)	0.0 (6)	0.0 (1)	0.0 (1)

Summary for Stability Class - G

Number of Calm Hours (<1.0 MPH) 20
 Number of Missing Wind Observations 0
 Number of Hours in this Stability Class 2890 of 43105 Valid Stability Hours

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction by Atmospheric Stability

Wind Data from: Main 30' Site

Atmospheric Stability from: Main 100 Ft
 From: 1/1/1999 To 12/31/2003

Stability Class - All (A-G)

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.3 (150)	1.7 (729)	1.5 (654)	0.7 (303)	0.2 (80)	0.0 (12)
NNE	0.3 (153)	2.3 (1004)	1.6 (722)	0.2 (94)	0.0 (2)	0.0 (0)
NE	0.7 (317)	2.4 (1042)	0.9 (390)	0.1 (37)	0.0 (0)	0.0 (0)
ENE	0.9 (394)	1.2 (546)	0.0 (11)	0.0 (0)	0.0 (0)	0.0 (0)
E	1.1 (476)	1.4 (632)	0.1 (45)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	1.3 (585)	3.5 (1533)	1.3 (551)	0.1 (31)	0.0 (0)	0.0 (0)
SE	1.9 (828)	5.7 (2486)	3.5 (1519)	0.3 (145)	0.0 (2)	0.0 (0)
SSE	1.2 (528)	5.3 (2324)	2.6 (1127)	0.3 (137)	0.0 (0)	0.0 (0)
S	0.8 (360)	4.7 (2077)	3.6 (1575)	0.2 (74)	0.0 (0)	0.0 (0)
SSW	0.5 (229)	2.3 (993)	1.9 (813)	0.0 (17)	0.0 (0)	0.0 (1)
SW	0.5 (199)	1.6 (684)	1.9 (813)	0.4 (187)	0.0 (7)	0.0 (0)
WSW	0.4 (181)	3.6 (1556)	3.3 (1449)	1.3 (580)	0.6 (274)	0.4 (186)
W	0.3 (145)	1.6 (719)	2.1 (907)	2.2 (965)	1.5 (640)	1.6 (701)
WNW	0.4 (177)	1.1 (489)	1.4 (598)	1.4 (620)	1.0 (419)	1.6 (688)
NW	0.4 (184)	1.3 (554)	1.4 (631)	1.5 (667)	0.8 (341)	0.3 (139)
NNW	0.4 (190)	1.2 (534)	1.1 (492)	0.8 (346)	0.1 (34)	0.0 (3)
Total	11.6 (5096)	40.8 (17902)	28.1 (12297)	9.6 (4203)	4.1 (1799)	3.9 (1730)

Summary for Stability Class - All (A-G)

Number of Calm Hours (<1.0 MPH)	97
Number of Invalid Hours	797
Total Hours in Period	43824

Nine Mile Point - Nine Mile Point Nuclear Station
 % Frequency (No. of occurrences) of Wind Speed and Wind Direction

Wind Data from: Main 30' Site

From: 1/1/1999 To 12/31/2003

Total Wind Category

Dir	Speed (MPH)					
	00-03	04-07	08-12	13-18	19-23	>=24
N	0.3 (152)	1.7 (736)	1.5 (656)	0.7 (303)	0.2 (80)	0.0 (12)
NNE	0.4 (155)	2.3 (1014)	1.7 (725)	0.2 (94)	0.0 (2)	0.0 (0)
NE	0.7 (318)	2.4 (1055)	0.9 (390)	0.1 (37)	0.0 (0)	0.0 (0)
ENE	0.9 (400)	1.3 (549)	0.0 (11)	0.0 (0)	0.0 (0)	0.0 (0)
E	1.1 (480)	1.4 (635)	0.1 (45)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	1.3 (591)	3.5 (1550)	1.3 (551)	0.1 (31)	0.0 (0)	0.0 (0)
SE	1.9 (837)	5.7 (2506)	3.5 (1538)	0.3 (145)	0.0 (2)	0.0 (0)
SSE	1.2 (536)	5.3 (2341)	2.6 (1137)	0.3 (137)	0.0 (0)	0.0 (0)
S	0.8 (365)	4.8 (2092)	3.6 (1597)	0.2 (74)	0.0 (0)	0.0 (0)
SSW	0.5 (232)	2.3 (1012)	1.9 (826)	0.0 (17)	0.0 (0)	0.0 (1)
SW	0.5 (201)	1.6 (695)	1.9 (830)	0.5 (199)	0.0 (7)	0.0 (0)
WSW	0.4 (182)	3.6 (1576)	3.3 (1459)	1.4 (595)	0.6 (280)	0.4 (189)
W	0.3 (145)	1.7 (732)	2.1 (915)	2.2 (966)	1.5 (641)	1.6 (708)
WNW	0.4 (178)	1.1 (492)	1.4 (598)	1.4 (626)	1.0 (434)	1.6 (707)
NW	0.4 (184)	1.3 (556)	1.4 (635)	1.5 (679)	0.8 (346)	0.3 (139)
NNW	0.4 (190)	1.2 (545)	1.1 (495)	0.8 (347)	0.1 (34)	0.0 (3)
Total	11.7 (5146)	41.3 (18086)	28.3 (12408)	9.7 (4250)	4.2 (1826)	4.0 (1759)

Summary for Total Wind Category

Number of Calm Hours (<1.0 MPH)	97
Number of Invalid Hours	349
Total Hours in Period	43824