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DATA SUMMARY FOR EVALUATION
OF THE TRANSPORT AND DIFFUSION CLIMATOLOGY
OF THE UNITED STATES EAST AND GULF COASTS

GILBERT S. RAYNOR AND JANET V. HAYES

July 1979

MASTER

ATMOSPHERIC SCIENCES DIVISION
DEPARTMENT OF ENERGY AND ENVIRONMENT

BROOKHAVEN NATIONAL LABORATORY
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Printed in the United States of America
Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
Price: Printed Copy ~~\$14.50~~; Microfiche ~~\$3.00~~

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ABSTRACT

A study of the atmospheric transport and diffusion climatology of the United States east and Gulf coasts was conducted as part of a larger coastal meteorology and diffusion program to aid in planning and site selection. Synoptic data were obtained from thirty coastal stations from Maine to Texas and analyzed in terms of conditions important to emission transport and diffusion. The thirty stations included four pairs with one of each pair at a greater distance from the coast than the other but near the same latitude.

For each station, wind directions were classified into eight groups with reference to orientation of the local coastline. For some studies, these were combined into three groups--onshore, alongshore and offshore. Wind speeds were divided into four classes. A diffusion class for each observation was computed by a modified Pasquill method. This gave eight classes which were combined into three--unstable, neutral and stable--for some studies. A diffusion rating was derived from combinations of wind speed and diffusion class ranging from very good to very poor. Finally, the joint frequency distributions of wind direction and diffusion rating were calculated for each station. Data were then classified by season, time of day, wind direction, wind speed, diffusion class and combinations of these variables and the percent of hours in each subgroup determined. Results are presented in a series of tables.

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INTRODUCTION

Coastal locations are used for a variety of installations and activities which are actual or potential sources of atmospheric pollutants. Additional facilities and activities are continually being proposed. Among the current and proposed installations are both floating and shore-based nuclear power plants, fossil-fueled power plants, industries and refineries. Activities include oil-drilling, shipment of fuel and transport of hazardous material. Such facilities and activities are commonly concentrated in coastal locations because of proximity to population centers, access to transportation and availability of cooling water.

In the past, sites for such facilities and activities have generally been selected on the basis of economic or political considerations with little effort to select locations which would minimize the effects of airborne emissions. In recent years, environmental impact studies are often required after a site has been selected, but usually these merely document, more or less adequately, existing conditions. In a few cases, particularly for nuclear installations, impact studies may affect the design or operating requirements of the plant, but seldom the location. Thus, studies of diffusion are rarely made as part of the site selection process.

This study is part of a larger study of coastal meteorology and diffusion¹⁻³ and was planned to assist in site selection by describing the transport and diffusion climatology of the United States east and Gulf coasts in as much detail as can be extracted from readily available meteorological data. Site specific studies may still be necessary for particular locations especially if the site is not representative of the coastline in the region, but such studies could be based on and guided by the information presented here. In

other cases, the information below may be adequate to guide a choice between potential sites with respect to air pollution transport and diffusion. No consideration was given in this study to other environmental, economic or political conditions that may also be important in site selection although a planned extension of this study will rate each section of coastline for severe weather potential. The effects on atmospheric diffusion of meteorological processes in coastal zones were discussed earlier.⁴ A prior report⁵ briefly described this study and presented some preliminary results.

AREA

The area covered in this study is the United States east and Gulf coasts from Maine to Texas. The inland extent of the coastal zone is considered to be that distance to which sea breezes normally penetrate, about 30 km in the north and 60 km in the south. However, boundaries are somewhat indefinite due to the irregular configuration of the coast and the presence of partially or completely enclosed bodies of water such as bays, sounds, harbors and estuaries. The seaward extent of the coastal zone is even more indefinite, but conditions measured on land should probably not be extrapolated more than 10 km offshore without appropriate adjustments, particularly in wind speed and stability.

The region studied is all within the coastal plain and is generally characterized by flat beaches and very gentle slopes inland except in New England where the coast is more rugged and the terrain hilly close to the sea. Local geography should be considered in applying or extrapolating results presented below.

VARIABLES

Meteorological variables of primary concern in this study are those which govern or influence transport and diffusion of airborne gases and particles.

The most important are wind direction and speed and some measure of diffusive capacity such as turbulence, gustiness or lapse rate. Other pertinent parameters include amount, type and height of clouds, solar radiation, air, land and water temperatures, humidity and precipitation. Other important variables are time of year, time of day, latitude, local geography, topography and surface roughness. Not all of these variables were included in the data available and some that were available were used indirectly, to determine a stability category, for instance.

DATA

Data for the portion of the study reported here were obtained from the National Climatic Center and consist of hourly or three-hourly synoptic observations usually for consecutive two-year periods from 30 stations. It was not possible to obtain the same two-year period for all stations since all were not operative at the same time and not all data taken at the stations were available on tape. The years 1970-1971 were obtained for most stations.

The stations selected are shown in Figure 1 and listed in Table 1 with their designation, latitude, longitude, elevation, angle of nearest coastline and period of data. Since these weather stations are at varying distances from the coast, the distance to the nearest large body of water (usually a bay) and the distance to the open ocean or Gulf are also tabulated.

Stations were selected to give a reasonably continuous and evenly spaced distribution along the coast while avoiding non-representative locations as much as possible. Moreover, selection was limited to those stations for which data on tape was available.

Eight stations were chosen to give four pairs for comparison between a coastal station and another somewhat further inland. The pairs are Boston and

Bedford, Massachusetts; Belmar and Lakehurst, New Jersey; Cape Kennedy and Orlando, Florida; and Galveston and Houston, Texas. The same years of data were obtained for both stations in each pair.

The synoptic data normally include station designation, date and time, type, height and amount of clouds in as many as four layers, total sky cover, ceiling height, visibility, weather and/or obstructions to vision, sea level and station barometric pressure, dry bulb and wet bulb air temperature, dew point, relative humidity, wind direction and wind speed. Most data were three-hourly observations. Table 1 footnotes those years with 24-hourly data or 16 to 18-hourly data. In the latter case observations were not taken during nighttime hours.

ANALYTICAL METHODS

Synoptic data were converted to forms most useful for the purposes of this study. Wind directions were divided into eight numbered classes relative to the coastline nearest to the station (Figure 2). For some analyses, these eight classes were combined into three: onshore, alongshore and offshore. In some cases (e.g., FMH, ACK, ORF, IAT, BVE and MSY) coastal waters were present in two directions from the station due to a location on an island, on a peninsula or near a bend in the coast. In these cases, the nearest coast representative of the open ocean or Gulf was chosen. The coastal orientation chosen is listed in Table 1.

Wind speeds were changed from knots to m sec^{-1} and grouped into five classes, calm, 0.5-2.4, 2.5-4.9, 5.0-9.9 and $\geq 10.0 \text{ m sec}^{-1}$.

A stability class was calculated for each observation using a modification of the Pasquill-Gifford method described by Turner⁶ by modifying the STAR computer program obtained from the National Weather Service. The original program

uses date, time of day, geographic location, total sky cover, ceiling height and wind speed to compute a stability class. Modifications used here were described earlier.⁷ The eight stability classes computed are designated extremely unstable, unstable, slightly unstable, neutral day, neutral night, slightly stable, stable and extremely stable. For some analyses, the eight classes were combined into three: unstable, neutral and stable.

For classifying the data by season, four classes were formed: spring, March-May; summer, June-August; fall, September-November; winter, December-February.

For classifying data by time of day, two classes were formed, day and night. In order to obtain the best agreement between these classes and atmospheric stability, day is considered the period from one hour after sunrise to one hour before sunset as used in the STAR program.

A diffusion rating classification was derived from a combination of the wind speed and stability classes as shown in Table 2. Diffusion rating classes were determined from ranges of dilution factors ($\bar{u}, \sigma_y, \sigma_z$) at 1 km as shown at the bottom of the table. These divisions agreed well with subjective determinations of several meteorologists experienced in diffusion studies. Values of σ_y and σ_z at 1 km were taken from Turner⁶. Some combinations of wind speed and stability may rarely or never occur, but all are filled in for completeness. The diffusion rating was used as another variable.

Finally, the joint frequency of the wind direction classes and the diffusion rating classes was computed for each station.

For each station, percentage frequency distributions were computed for selected variables or combinations of variables. Results are presented in a series of tables described below.

RESULTS

Results presented here are derived from the two years of data averaged. Results are presented in six groups of 30 similar tables, one for each station. Within each group, stations are arranged in order along the coast from Maine to Texas.

The percent of hours in each of the three combined wind direction classes and the percent with calm winds are presented in tables 3.1 to 3.30 by season and time of day.

The percent of hours in each of the three combined stability classes by the combined wind direction classes and wind speed is tabulated in tables 4.1 to 4.30 for all hours with non-calm wind speeds.

The percent of hours in each of the eight stability classes by the combined wind direction classes, season and time of day is shown in tables 5.1 to 5.30 for all non-calm hours.

The percent of hours in each wind speed class by the combined wind direction classes, season and time of day is listed in tables 6.1 to 6.30 for all non-calm hours.

The percent of hours in each diffusion rating class by combined wind direction class, season and time of day is given in tables 7.1 to 7.30.

The joint percentage frequency of hours in each combination of wind direction class and diffusion rating class is given in tables 8.1 to 8.30.

More detailed results were computed and are available for inspection, but are not included here. All computations were made for the two years separately as well as for the two years combined. All computations were made for the eight wind direction sectors as well as for the three combined sectors. All computations were made for the eight stability classes as well as for the three

combined classes. Numerical frequencies as well as percentage frequencies were computed for all cases.

APPLICATION

The results presented here are arranged for easy use with diffusion models in which the primary meteorological inputs are wind speed and measures of lateral and vertical diffusion. The latter can readily be derived from the stability classes by established relationships. Presentation of data by season, time of day and wind direction classes permits ready selection of the other meteorological parameters for any desired combination of conditions. Interpolation can be employed for locations between stations. Use of the information in tables 7.1 to 7.30 and 8.1 to 8.30 may permit preliminary site evaluation without diffusion modeling.

FUTURE WORK

Additional studies are planned as part of this investigation. An attempt will be made to determine and classify diffusion conditions over the water which may be quite different from those over land. Data from lightships and other sources will be used. The frequency of several types of severe weather will be determined as a function of location along the coast. Data from BNL and several outlying stations will be analyzed to fill in the gap between New England and New Jersey and to compare results from an east-west coastline with those from nearly north-south coastlines. Certain data included in this report will be the subjects of one or more analytical papers.

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Table 1
Description of Stations

Station	Designation	Lat.	Long.	Elev. (m)	Distance (km) to Nearest Water	Open Coast	Direction of Coast (degrees)	Period of Data	
Portland, ME	PWM	43°39'	70°19'	19.0	1.3	8.8	028-208	1970	1971
Boston, MA	BOS	42°22'	71°02'	4.6	3.8	10.2	354-174	1969	1970
Bedford, MA	BED	42°28'	71°17'	43.6	25.4	31.8	354-174	1969*	1970*
Falmouth, MA	FMH	41°39'	70°31'	41.8	8.3	11.4	076-256	1968*	1969*
Nantucket, MA	ACK	41°15'	70°04'	3.7	0.4	0.4	271-091	1968	1969
Belmar, NJ	BLM	40°11'	74°04'	25.6	1.3	5.1	012-192	1960*	1970
Lakehurst, NJ	NEL	40°02'	74°20'	36.9	16.6	24.1	010-190	1960*	1970
Atlantic City, NJ	ACY	39°27'	74°35'	20.4	8.8	16.6	040-220	1970	1971
Wilmington, DE	ILG	39°40'	75°36'	24.1	2.6	96.5	037-217	1970	1971
Wallops Island, Va	WAL	37°51'	75°29'	2.1	0.2	0.2	032-212	1970	1971
Norfolk, VA	ORF	36°53'	76°12'	9.1	6.4	17.8	000-180	1970	1971
Cape Hatteras, NC	HAT	35°16'	75°33'	7.6	0.0	2.6	046-226	1970	1971
Wilmington, NC	ILM	34°14'	77°57'	14.0	11.4	13.4	033-213	1970	1971
Charleston, SC	CHS	32°54'	80°02'	14.0	17.8	25.4	056-236	1970	1971
Brunswick, GA	SSI	31°15'	81°28'	9.5	6.3	8.7	016-196	1970	1971
Cape Kennedy, FL	KEN	28°29'	80°33'	4.9	1.0	1.0	340-160	1970	1971
Orlando, FL	ORL	28°33'	81°20'	33.5	50.8	63.6	340-160	1970	1971
Miami, FL	MIA	25°49'	80°17'	7.3	2.4	15.8	027-207	1970	1971
Ft. Myers, FL	FMY	26°34'	81°52'	6.1	12.7	16.6	329-149	1970	1971
Tampa, FL	TPA	27°58'	82°32'	11.0	1.3	29.3	350-170	1970	1971
Tallahassee, FL	TLH	30°26'	84°20'	20.7	42.0	42.0	084-264	1970	1971
Pensacola, FL	PNS	30°28'	87°12'	35.4	2.6	16.6	080-260	1970	1971
Mobile, AL	MOB	30°41'	88°14'	66.1	17.9	48.3	092-272	1970	1971
Biloxi, MS	BIX	30°24'	88°55'	7.9	0.6	19.1	083-263	1969**	1970**
New Orleans, LA	MSY	29°59'	90°15'	2.1	6.4	76.3	084-264	1972	1973
Boothville, LA	BVE	29°20'	89°24'	0.9	2.5	15.3	095-275	1972	1973
Lake Charles, LA	LCH	30°07'	93°13'	4.3	10.1	36.8	090-270	1970	1971
Galveston, TX	GLS	29°16'	94°51'	2.7	1.3	1.3	051-231	1961*	1962*
Houston, TX	HOU	29°39'	95°17'	18.9	25.4	59.7	051-231	1961*	1962*
Brownsville, TX	BRO	25°55'	97°28'	6.1	21.6	31.9	000-180	1970	1971

*24 observations per day.

**16 to 18 observations per day.

Table 2
Diffusion Rating by Wind Speed and Stability Classes

Stability	Calm	0.5-2.4	Wind Speed (msec ⁻¹)		≥10.0
			2.5-4.9	5.0-9.9	
Very Unstable	3	2	1	1	1
Unstable	4	3	2	2	1
Slightly Unstable	4	3	3	2	2
Neutral	5	4	3	3	3
Slightly Stable	5	4	4	3	3
Stable	5	5	4	4	4
Very Stable	5	5	5	4	4

Diffusion Rating		$\bar{u}$, σ_y , σ_z at 1 km (m ³ sec ⁻¹)
1	Very Good	$>2 \times 10^5$
2	Good	$4.5 \times 10^4 - 2 \times 10^5$
3	Fair	$8 \times 10^3 - 4.5 \times 10^4$
4	Poor	$1 \times 10^3 - 8 \times 10^3$
5	Very Poor	$<10^3$

Table 3.1
 Portland, Maine
 Percent of Hours in Each Wind Direction Class
 by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	21.7	31.8	14.6
Alongshore	25.2	22.9	26.8
Offshore	50.9	44.3	55.5
Calm	2.1	0.9	3.0
Spring			
Onshore	25.5	34.6	17.1
Alongshore	22.2	21.8	22.6
Offshore	49.5	42.4	56.1
Calm	2.8	1.3	4.2
Summer			
Onshore	28.1	38.2	17.9
Alongshore	27.5	22.8	32.2
Offshore	43.0	38.9	47.1
Calm	1.4	0.1	2.7
Fall			
Onshore	22.7	31.9	17.1
Alongshore	28.1	27.0	28.8
Offshore	47.2	40.6	51.2
Calm	2.0	0.5	2.9
Winter			
Onshore	10.3	15.4	8.3
Alongshore	23.1	19.4	24.5
Offshore	64.3	62.9	64.8
Calm	2.4	2.2	2.4

Table 3.2
 Boston, Massachusetts
 Percent of Hours in Each Wind Direction Class
 by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	26.7	35.0	20.8
Alongshore	18.7	14.9	21.3
Offshore	54.1	49.6	57.2
Calm	0.6	0.5	0.7
Spring			
Onshore	29.1	36.2	22.4
Alongshore	15.0	12.8	17.1
Offshore	55.2	50.6	59.4
Calm	0.7	0.4	1.0
Summer			
Onshore	27.9	37.2	18.5
Alongshore	17.8	14.4	21.2
Offshore	54.1	48.2	59.9
Calm	0.3	0.1	0.4
Fall			
Onshore	32.4	39.4	28.1
Alongshore	20.9	15.8	24.0
Offshore	46.0	43.9	47.3
Calm	0.7	0.9	0.6
Winter			
Onshore	17.2	23.2	14.8
Alongshore	21.0	18.0	22.2
Offshore	61.2	58.3	62.3
Calm	0.6	0.5	0.7

Table 3.3
Bedford, Massachusetts
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	18.6	23.0	15.3
Alongshore	13.4	15.4	11.9
Offshore	48.3	53.3	44.5
Calm	19.8	8.3	28.3
Spring			
Onshore	21.2	26.4	16.6
Alongshore	13.0	15.3	11.1
Offshore	51.5	52.9	50.3
Calm	14.2	5.4	22.0
Summer			
Onshore	13.6	18.0	8.8
Alongshore	13.4	14.9	11.8
Offshore	56.7	61.7	51.1
Calm	16.2	5.5	28.2
Fall			
Onshore	22.4	26.8	19.6
Alongshore	12.0	14.7	10.4
Offshore	37.9	45.7	33.0
Calm	27.7	12.7	37.1
Winter			
Onshore	17.1	21.4	15.0
Alongshore	15.0	17.2	13.9
Offshore	46.9	49.2	45.8
Calm	21.1	12.2	25.2

Table 3.4
Falmouth, Massachusetts
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	40.4	41.5	39.6
Alongshore	25.5	27.3	24.2
Offshore	23.9	27.4	21.3
Calm	10.2	3.8	14.9
Spring			
Onshore	39.4	39.8	39.0
Alongshore	26.9	28.8	25.2
Offshore	26.1	28.2	24.2
Calm	7.0	3.2	11.5
Summer			
Onshore	27.9	31.8	23.6
Alongshore	28.8	29.7	27.9
Offshore	32.2	34.4	29.8
Calm	11.1	4.1	18.8
Fall			
Onshore	41.5	46.6	38.4
Alongshore	22.7	24.0	21.8
Offshore	23.1	25.4	21.6
Calm	12.8	4.0	18.2
Winter			
Onshore	53.1	54.1	52.7
Alongshore	23.6	25.0	22.9
Offshore	14.1	16.7	12.8
Calm	9.2	4.2	11.6

Table 3.5
Nantucket, Massachusetts
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	40.4	38.2	42.1
Alongshore	24.7	23.8	25.3
Offshore	34.3	37.9	31.7
Calm	0.6	0.1	1.0
Spring			
Onshore	37.6	36.5	38.8
Alongshore	23.6	23.3	23.8
Offshore	38.5	40.2	36.8
Calm	0.3	0.0	0.7
Summer			
Onshore	25.8	27.9	23.8
Alongshore	20.4	19.0	21.7
Offshore	52.8	53.0	52.5
Calm	1.0	0.1	1.9
Fall			
Onshore	42.3	43.4	41.6
Alongshore	29.7	27.6	31.3
Offshore	27.4	28.8	26.2
Calm	0.6	0.2	0.9
Winter			
Onshore	56.2	52.5	57.7
Alongshore	25.7	28.2	24.7
Offshore	17.6	19.0	17.0
Calm	0.5	0.2	0.6

Table 3.6
Belmar, New Jersey
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	21.0	26.3	17.3
Alongshore	21.3	23.8	19.4
Offshore	46.8	43.6	49.1
Calm	10.9	6.4	14.2
Spring			
Onshore	26.9	33.4	21.1
Alongshore	18.0	19.5	16.8
Offshore	45.5	43.4	47.3
Calm	9.6	3.7	14.8
Summer			
Onshore	15.9	22.7	8.8
Alongshore	30.5	30.8	30.1
Offshore	39.7	37.5	41.9
Calm	13.9	9.0	19.1
Fall			
Onshore	28.3	30.0	27.2
Alongshore	21.5	24.7	19.5
Offshore	39.4	38.1	40.2
Calm	10.8	7.2	13.0
Winter			
Onshore	13.0	16.5	11.4
Alongshore	15.0	17.6	13.7
Offshore	62.8	61.0	63.7
Calm	9.2	4.9	11.2

Table 3.7
Lakehurst, New Jersey
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	23.2	27.1	20.4
Alongshore	16.9	17.0	16.9
Offshore	45.7	50.7	42.1
Calm	14.1	5.3	20.6
Spring			
Onshore	29.0	32.3	26.0
Alongshore	15.0	14.2	15.7
Offshore	47.1	50.7	43.9
Calm	9.0	2.8	14.4
Summer			
Onshore	24.0	27.9	19.9
Alongshore	22.9	21.6	24.3
Offshore	37.1	45.0	28.9
Calm	16.0	5.5	26.9
Fall			
Onshore	25.9	30.2	23.2
Alongshore	17.9	18.1	17.8
Offshore	36.4	44.5	31.4
Calm	19.8	7.2	27.7
Winter			
Onshore	13.9	14.2	13.8
Alongshore	11.8	12.1	11.6
Offshore	62.5	67.7	60.0
Calm	11.9	6.1	14.6

Table 3.8
Atlantic City, New Jersey
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	27.2	33.6	22.7
Alongshore	22.8	20.5	24.5
Offshore	43.5	43.4	43.7
Calm	6.4	2.5	9.2
Spring			
Onshore	24.4	29.1	20.2
Alongshore	21.5	18.4	24.3
Offshore	48.3	49.6	47.2
Calm	5.8	2.9	8.4
Summer			
Onshore	34.6	38.3	31.0
Alongshore	27.4	22.8	32.1
Offshore	32.5	36.4	28.7
Calm	5.4	2.4	8.3
Fall			
Onshore	33.5	42.7	27.7
Alongshore	22.5	22.8	22.4
Offshore	35.5	31.3	38.1
Calm	8.4	3.2	11.7
Winter			
Onshore	16.2	21.2	14.0
Alongshore	19.7	17.1	20.9
Offshore	58.1	60.6	56.9
Calm	6.0	1.1	8.2

Table 3.9
Wilmington, Delaware
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	30.7	31.7	30.0
Alongshore	15.0	16.2	14.1
Offshore	49.0	48.7	49.2
Calm	5.3	3.4	6.7
Spring			
Onshore	28.7	28.9	28.4
Alongshore	14.2	14.8	13.6
Offshore	53.7	54.7	52.9
Calm	3.4	1.6	5.0
Summer			
Onshore	31.0	29.5	32.6
Alongshore	17.7	19.2	16.2
Offshore	44.7	46.7	42.7
Calm	6.6	4.6	8.6
Fall			
Onshore	38.7	42.3	36.5
Alongshore	14.6	16.6	13.4
Offshore	39.7	36.3	41.9
Calm	6.9	4.8	8.3
Winter			
Onshore	24.3	26.1	23.5
Alongshore	13.3	13.1	13.5
Offshore	58.0	58.4	57.8
Calm	4.4	2.4	5.3

Table 3.10
 Wallops Island, Virginia
 Percent of Hours in Each Wind Direction Class
 by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	37.6	44.2	27.4
Alongshore	24.9	20.1	32.6
Offshore	35.0	34.1	36.4
Calm	2.4	1.5	3.7
Spring			
Onshore	35.0	38.3	29.4
Alongshore	22.5	17.0	31.9
Offshore	40.7	43.7	36.5
Calm	1.8	1.1	7.2
Summer			
Onshore	56.1	56.7	53.7
Alongshore	21.3	18.8	31.2
Offshore	20.0	21.9	12.5
Calm	2.6	2.6	2.6
Fall			
Onshore	43.0	50.0	32.3
Alongshore	26.0	23.2	30.4
Offshore	28.9	26.1	33.3
Calm	2.0	0.7	4.0
Winter			
Onshore	18.7	24.6	14.2
Alongshore	29.3	23.1	34.0
Offshore	48.9	51.0	47.3
Calm	3.1	1.3	4.5

Table 3.11
Norfolk, Virginia
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	32.6	31.9	33.1
Alongshore	38.4	37.7	38.9
Offshore	27.5	29.7	25.9
Calm	1.5	0.6	2.0
Spring			
Onshore	32.0	29.4	34.3
Alongshore	35.2	34.4	35.9
Offshore	20.4	36.1	28.4
Calm	0.8	0.1	1.4
Summer			
Onshore	37.0	36.1	37.9
Alongshore	40.0	37.8	42.3
Offshore	20.4	24.6	16.3
Calm	2.5	1.5	3.5
Fall			
Onshore	42.2	41.3	42.9
Alongshore	35.0	38.3	32.9
Offshore	20.8	20.1	21.3
Calm	1.9	0.3	2.9
Winter			
Onshore	18.9	17.6	19.5
Alongshore	43.5	41.9	44.3
Offshore	37.0	40.0	35.5
Calm	0.6	0.4	0.6

Table 3.12
Cape Hatteras, North Carolina
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	25.4	28.5	23.2
Alongshore	41.5	44.2	39.5
Offshore	31.4	26.5	34.9
Calm	1.7	0.8	2.4
Spring			
Onshore	26.4	28.1	24.9
Alongshore	43.0	44.0	42.1
Offshore	29.3	27.6	30.9
Calm	1.3	0.3	2.2
Summer			
Onshore	30.8	32.5	29.1
Alongshore	50.8	51.9	49.7
Offshore	16.2	14.1	18.2
Calm	2.2	1.5	3.0
Fall			
Onshore	30.6	33.1	28.9
Alongshore	38.5	40.5	37.1
Offshore	29.7	25.5	32.4
Calm	1.3	0.9	1.6
Winter			
Onshore	13.9	17.4	12.2
Alongshore	33.5	37.2	31.7
Offshore	50.6	45.2	53.3
Calm	1.9	0.2	2.8

Table 3.13
Wilmington, North Carolina
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	26.7	33.8	21.3
Alongshore	27.9	25.1	30.0
Offshore	32.6	37.7	28.7
Calm	12.8	3.5	20.0
Spring			
Onshore	27.8	29.2	26.6
Alongshore	26.6	24.3	28.4
Offshore	37.3	44.4	31.3
Calm	8.4	2.1	13.7
Summer			
Onshore	33.2	38.9	27.6
Alongshore	29.8	26.1	33.4
Offshore	23.4	29.5	17.4
Calm	13.6	5.6	21.6
Fall			
Onshore	27.0	39.4	18.4
Alongshore	27.5	24.1	29.8
Offshore	30.6	33.0	29.0
Calm	14.9	3.5	22.7
Winter			
Onshore	18.7	26.3	14.1
Alongshore	27.8	25.9	28.9
Offshore	39.2	45.6	35.4
Calm	14.3	2.2	21.6

Table 3.14
Charleston, South Carolina
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	35.5	34.3	36.4
Alongshore	22.4	24.4	21.0
Offshore	37.8	40.4	35.9
Calm	4.3	0.9	6.8
Spring			
Onshore	42.5	38.6	45.6
Alongshore	21.1	22.0	20.3
Offshore	32.9	38.0	28.8
Calm	3.5	1.4	5.3
Summer			
Onshore	43.5	37.4	49.6
Alongshore	23.0	24.0	21.9
Offshore	30.2	37.5	23.0
Calm	3.3	1.1	5.6
Fall			
Onshore	26.5	32.6	22.6
Alongshore	22.1	24.8	20.4
Offshore	47.1	42.4	50.1
Calm	4.3	0.2	6.9
Winter			
Onshore	29.2	26.7	30.8
Alongshore	23.6	27.2	21.4
Offshore	41.1	45.2	38.7
Calm	6.0	0.9	9.1

Table 3.15
Brunswick, Georgia
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	26.9	36.9	19.6
Alongshore	16.9	16.2	17.4
Offshore	32.8	39.5	27.9
Calm	23.4	7.4	35.1
Spring			
Onshore	30.6	38.4	24.4
Alongshore	13.7	12.3	14.7
Offshore	37.0	42.6	32.6
Calm	18.8	6.6	28.3
Summer			
Onshore	27.4	34.0	20.9
Alongshore	17.3	14.1	20.5
Offshore	30.2	38.6	21.9
Calm	25.0	13.3	36.7
Fall			
Onshore	28.9	46.3	18.5
Alongshore	18.5	20.3	17.5
Offshore	25.7	30.4	22.9
Calm	26.9	2.9	41.2
Winter			
Onshore	20.7	29.7	15.3
Alongshore	18.0	19.5	17.1
Offshore	38.4	46.2	33.7
Calm	22.9	4.6	33.9

Table 3.16
Cape Kennedy, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	37.8	45.9	31.8
Alongshore	29.2	27.6	30.4
Offshore	26.6	22.9	29.3
Calm	6.4	3.6	8.4
Spring			
Onshore	37.8	44.9	32.1
Alongshore	32.2	29.5	34.2
Offshore	26.0	22.8	28.5
Calm	4.1	2.8	5.1
Summer			
Onshore	36.9	46.3	27.6
Alongshore	25.0	21.6	28.4
Offshore	28.8	24.9	32.7
Calm	9.2	7.2	11.3
Fall			
Onshore	50.6	61.1	44.2
Alongshore	22.3	20.7	23.3
Offshore	20.1	16.1	22.5
Calm	7.1	2.2	10.1
Winter			
Onshore	25.8	31.1	22.7
Alongshore	37.5	40.4	35.7
Offshore	31.6	27.4	34.1
Calm	5.1	1.1	7.5

Table 3.17
Orlando, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	38.0	39.6	36.9
Alongshore	22.6	21.0	23.7
Offshore	29.9	36.3	25.3
Calm	9.5	3.1	14.1
Spring			
Onshore	33.6	35.0	32.4
Alongshore	22.0	21.4	22.5
Offshore	36.1	40.4	32.7
Calm	8.4	3.3	12.3
Summer			
Onshore	33.9	33.7	34.1
Alongshore	22.1	21.6	22.6
Offshore	34.2	39.0	29.5
Calm	9.7	5.6	13.7
Fall			
Onshore	50.8	55.9	47.7
Alongshore	20.9	19.0	22.1
Offshore	18.5	24.0	15.3
Calm	9.8	1.1	14.9
Winter			
Onshore	34.0	36.9	32.2
Alongshore	25.1	21.7	27.2
Offshore	30.8	40.0	25.3
Calm	10.1	1.5	15.2

Table 3.18
Miami, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	58.2	64.7	53.4
Alongshore	10.7	10.7	10.7
Offshore	31.0	24.5	35.7
Calm	0.1	0.0	0.2
Spring			
Onshore	64.7	68.8	61.6
Alongshore	9.6	9.4	9.9
Offshore	25.5	21.8	28.3
Calm	0.1	0.0	0.2
Summer			
Onshore	63.0	68.7	57.3
Alongshore	10.3	8.4	12.2
Offshore	26.5	22.7	30.3
Calm	0.1	0.1	0.1
Fall			
Onshore	55.2	62.6	50.8
Alongshore	12.9	15.3	11.5
Offshore	31.8	22.1	37.7
Calm	0.1	0.0	0.1
Winter			
Onshore	49.7	56.5	45.6
Alongshore	9.9	10.7	9.3
Offshore	40.3	32.8	44.9
Calm	0.1	0.0	0.2

Table 3.19
Fort Myers, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	22.9	33.3	15.4
Alongshore	16.5	17.0	16.0
Offshore	50.1	47.3	52.0
Calm	10.6	2.3	16.5
Spring			
Onshore	33.2	42.8	25.8
Alongshore	18.7	16.1	20.6
Offshore	38.9	38.6	39.1
Calm	9.3	2.5	14.5
Summer			
Onshore	24.7	35.1	15.0
Alongshore	17.4	17.6	17.2
Offshore	45.9	42.8	48.7
Calm	12.0	4.5	19.1
Fall			
Onshore	12.7	22.7	6.7
Alongshore	10.5	13.6	8.7
Offshore	65.2	63.0	66.5
Calm	11.6	0.7	18.1
Winter			
Onshore	20.8	30.6	15.0
Alongshore	19.2	20.9	18.2
Offshore	50.5	47.6	52.2
Calm	9.4	0.9	14.6

Table 3.20
Tampa, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	28.4	40.4	19.9
Alongshore	20.3	20.1	20.6
Offshore	46.5	38.3	52.4
Calm	4.7	1.3	7.1
Spring			
Onshore	37.6	47.0	30.5
Alongshore	20.6	20.0	21.0
Offshore	36.5	32.3	39.6
Calm	5.3	0.6	8.8
Summer			
Onshore	34.6	46.6	23.6
Alongshore	19.0	19.1	19.0
Offshore	39.9	30.6	48.6
Calm	6.4	3.7	8.9
Fall			
Onshore	15.1	27.3	7.8
Alongshore	17.1	17.4	16.9
Offshore	64.2	55.1	69.7
Calm	3.6	0.2	5.6
Winter			
Onshore	26.1	37.6	19.2
Alongshore	24.8	24.1	25.2
Offshore	45.7	38.1	50.2
Calm	3.5	0.2	5.5

Table 3.21
Tallahassee, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	30.9	36.9	26.6
Alongshore	15.6	16.0	15.3
Offshore	36.6	41.7	33.0
Calm	16.9	5.4	25.0
Spring			
Onshore	37.8	43.9	33.2
Alongshore	12.7	12.3	13.0
Offshore	33.5	38.7	29.7
Calm	16.0	5.1	24.1
Summer			
Onshore	35.9	37.9	34.2
Alongshore	18.5	16.7	20.1
Offshore	27.6	35.4	20.7
Calm	17.9	9.9	25.1
Fall			
Onshore	18.5	26.7	13.6
Alongshore	20.2	21.2	19.6
Offshore	45.0	50.4	41.8
Calm	16.3	1.6	25.1
Winter			
Onshore	31.1	37.8	27.1
Alongshore	11.0	14.1	9.2
Offshore	40.5	44.6	38.0
Calm	17.4	3.5	25.7

Table 3.22
Pensacola, Florida
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	36.1	46.8	29.0
Alongshore	23.2	21.2	24.5
Offshore	31.6	29.2	33.3
Calm	9.0	2.8	13.2
Spring			
Onshore	47.3	56.7	40.8
Alongshore	17.8	15.2	19.6
Offshore	26.5	26.2	26.7
Calm	8.4	2.0	12.8
Summer			
Onshore	37.4	47.9	28.9
Alongshore	27.4	26.3	28.4
Offshore	21.9	20.4	23.1
Calm	13.3	5.5	19.7
Fall			
Onshore	28.2	41.4	20.2
Alongshore	23.9	22.2	24.9
Offshore	41.6	34.6	45.7
Calm	6.4	1.8	9.1
Winter			
Onshore	31.5	39.8	26.6
Alongshore	23.8	20.9	25.4
Offshore	36.8	37.8	36.2
Calm	7.9	1.5	11.8

Table 3.23
Mobile, Alabama
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	38.8	38.5	39.0
Alongshore	19.6	23.1	17.3
Offshore	37.4	37.1	37.6
Calm	4.1	1.2	6.1
Spring			
Onshore	49.5	47.1	51.1
Alongshore	15.9	17.5	14.9
Offshore	32.9	34.7	31.6
Calm	1.7	0.7	2.4
Summer			
Onshore	42.1	39.0	44.6
Alongshore	26.1	30.5	22.5
Offshore	28.8	29.4	28.2
Calm	3.1	1.1	4.7
Fall			
Onshore	24.0	26.6	22.5
Alongshore	22.3	27.8	19.0
Offshore	45.0	43.4	45.9
Calm	8.7	2.2	12.5
Winter			
Onshore	39.4	40.6	38.8
Alongshore	14.1	15.6	13.2
Offshore	43.3	42.8	43.6
Calm	3.2	1.1	4.4

Table 3.24
Biloxi, Mississippi
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	39.3	46.5	29.6
Alongshore	10.2	10.8	9.5
Offshore	35.3	35.3	35.3
Calm	15.2	7.4	25.7
Spring			
Onshore	49.9	55.2	41.6
Alongshore	9.0	9.3	8.5
Offshore	30.6	30.7	30.6
Calm	10.6	4.8	19.4
Summer			
Onshore	45.6	52.3	33.3
Alongshore	9.4	9.5	9.1
Offshore	24.8	25.8	23.0
Calm	20.3	12.4	34.6
Fall			
Onshore	30.3	38.1	21.8
Alongshore	9.9	11.2	8.5
Offshore	43.5	44.4	42.4
Calm	16.3	6.3	27.4
Winter			
Onshore	30.8	36.9	24.6
Alongshore	12.8	13.8	11.7
Offshore	43.0	44.4	41.6
Calm	13.4	4.9	22.2

Table 3.25
New Orleans, Louisiana
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	38.9	37.8	39.5
Alongshore	14.0	14.1	13.9
Offshore	38.4	46.9	32.8
Calm	8.7	1.2	13.8
Spring			
Onshore	49.0	45.1	51.3
Alongshore	12.2	12.0	12.3
Offshore	32.7	42.4	27.0
Calm	6.1	0.5	9.5
Summer			
Onshore	35.6	35.8	35.4
Alongshore	15.7	15.8	15.6
Offshore	36.4	45.3	28.5
Calm	12.3	3.2	20.5
Fall			
Onshore	33.8	33.2	34.2
Alongshore	15.4	16.1	14.9
Offshore	39.1	50.5	32.3
Calm	11.7	0.2	18.6
Winter			
Onshore	36.9	37.7	36.4
Alongshore	12.7	12.2	12.9
Offshore	45.6	49.9	43.0
Calm	4.8	0.2	7.6

Table 3.26
Boothville, Louisiana
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	36.7	36.1	37.1
Alongshore	15.4	14.0	16.3
Offshore	36.6	46.5	30.1
Calm	11.3	3.4	16.6
Spring			
Onshore	48.0	43.8	50.6
Alongshore	18.6	15.4	20.6
Offshore	29.1	39.2	22.9
Calm	4.3	1.6	5.9
Summer			
Onshore	39.5	38.2	40.6
Alongshore	14.6	14.2	14.9
Offshore	28.1	41.7	17.0
Calm	17.9	6.0	27.5
Fall			
Onshore	27.0	29.5	25.5
Alongshore	16.8	16.7	16.8
Offshore	39.8	50.5	33.3
Calm	16.5	3.3	24.4
Winter			
Onshore	32.1	32.3	31.9
Alongshore	11.3	9.4	12.5
Offshore	50.0	56.0	46.3
Calm	6.6	2.2	9.4

Table 3.27
Lake Charles, Louisiana
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	43.2	49.1	39.2
Alongshore	19.3	19.7	19.1
Offshore	30.8	29.0	32.1
Calm	6.6	2.2	9.7
Spring			
Onshore	52.9	56.7	50.3
Alongshore	15.7	16.5	15.2
Offshore	28.5	25.6	30.4
Calm	2.9	1.2	4.0
Summer			
Onshore	46.1	54.5	38.5
Alongshore	21.0	21.3	20.7
Offshore	21.9	21.4	22.3
Calm	11.1	2.9	18.4
Fall			
Onshore	32.2	39.2	28.0
Alongshore	20.6	18.9	21.6
Offshore	39.6	38.6	40.1
Calm	7.6	3.3	10.2
Winter			
Onshore	41.5	44.0	40.0
Alongshore	20.1	22.2	18.9
Offshore	33.4	32.5	34.0
Calm	4.9	1.3	7.1

Table 3.28
Galveston, Texas
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	62.1	65.6	59.5
Alongshore	15.0	12.0	17.2
Offshore	22.9	22.5	23.2
Calm	0.1	0.0	0.1
Spring			
Onshore	74.0	75.4	72.8
Alongshore	8.0	6.2	9.5
Offshore	18.0	18.5	17.6
Calm	0.1	0.0	0.2
Summer			
Onshore	75.8	77.2	74.4
Alongshore	12.8	10.1	15.5
Offshore	11.3	12.7	10.0
Calm	0.1	0.0	0.1
Fall			
Onshore	54.1	55.4	53.3
Alongshore	20.2	17.5	22.1
Offshore	25.5	27.2	24.5
Calm	0.1	0.0	0.2
Winter			
Onshore	44.1	48.0	41.9
Alongshore	19.0	15.9	20.6
Offshore	37.0	36.1	37.4
Calm	0.0	0.0	0.0

Table 3.29
Houston, Texas
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	53.9	56.2	52.3
Alongshore	16.7	17.4	16.1
Offshore	27.1	25.7	28.1
Calm	2.3	0.7	3.5
Spring			
Onshore	66.2	67.6	65.0
Alongshore	9.5	9.7	9.3
Offshore	22.3	22.4	22.2
Calm	2.0	0.4	3.4
Summer			
Onshore	61.6	61.9	61.4
Alongshore	19.1	20.1	18.1
Offshore	16.0	16.5	15.5
Calm	3.3	1.5	5.1
Fall			
Onshore	47.5	50.7	45.4
Alongshore	19.0	20.5	18.1
Offshore	31.3	28.6	33.1
Calm	2.1	0.2	3.4
Winter			
Onshore	40.1	39.3	40.6
Alongshore	19.1	20.1	18.6
Offshore	39.0	40.0	38.4
Calm	1.7	0.7	2.3

Table 3.30
Brownsville, Texas
Percent of Hours in Each Wind Direction Class
by Season and Time of Day

Direction	All Hours	Day	Night
Annual			
Onshore	50.0	46.9	52.2
Alongshore	36.0	42.2	31.6
Offshore	11.6	10.4	12.4
Calm	2.4	0.4	3.8
Spring			
Onshore	54.1	50.5	56.7
Alongshore	37.0	43.4	32.3
Offshore	7.7	6.1	8.9
Calm	1.2	0.0	2.1
Summer			
Onshore	64.0	61.8	66.1
Alongshore	29.3	34.0	24.7
Offshore	4.4	3.9	4.9
Calm	2.3	0.3	4.3
Fall			
Onshore	45.6	40.5	48.7
Alongshore	34.7	44.7	28.7
Offshore	16.1	14.5	17.0
Calm	3.6	0.4	5.6
Winter			
Onshore	36.0	29.6	39.9
Alongshore	43.2	49.3	39.6
Offshore	18.3	20.0	17.2
Calm	2.5	1.1	3.3

Table 4.1
Portland, Maine
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.0	18.5	9.0	3.8
Neutral	18.6	41.6	85.2	96.2
Stable	66.4	39.9	5.8	0.0
Onshore				
Unstable	18.7	31.3	17.8	0.0
Neutral	30.0	54.6	81.0	100.0
Stable	51.3	14.1	1.3	0.0
Alongshore				
Unstable	19.5	9.1	5.2	18.8
Neutral	21.6	52.5	87.8	81.3
Stable	58.9	38.4	7.0	0.0
Offshore				
Unstable	12.5	17.3	7.5	0.0
Neutral	14.1	29.3	85.5	100.0
Stable	73.4	53.4	7.0	0.0

Table 4.2
 Boston, Massachusetts
 Percent of Hours in Each Stability Class
 by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	17.9	17.3	5.0	0.6
Neutral	32.0	43.4	89.5	99.4
Stable	50.1	39.3	5.4	0.0
Onshore				
Unstable	17.6	22.9	10.9	0.0
Neutral	39.4	53.8	86.3	100.0
Stable	43.1	23.3	7.7	0.0
Alongshore				
Unstable	17.2	10.1	2.3	2.0
Neutral	32.0	48.3	90.6	98.0
Stable	50.7	41.6	7.1	0.0
Offshore				
Unstable	19.5	17.0	3.5	0.4
Neutral	22.9	33.0	90.6	99.6
Stable	57.6	50.0	5.9	0.0

Table 4.3
Bedford, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	23.6	23.0	8.6	0.0
Neutral	23.5	45.7	85.1	100.0
Stable	52.8	31.2	6.4	0.0
Onshore				
Unstable	23.6	20.8	6.7	0.0
Neutral	39.6	68.5	92.5	100.0
Stable	36.8	10.7	0.8	0.0
Alongshore				
Unstable	24.7	23.4	10.4	0.0
Neutral	29.7	55.5	84.3	100.0
Stable	45.5	21.0	5.3	0.0
Offshore				
Unstable	23.4	23.9	8.8	0.0
Neutral	14.7	32.9	82.9	100.0
Stable	61.9	43.2	8.3	0.0

Table 4.4
Falmouth, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	17.3	22.6	7.2	1.3
Neutral	20.3	43.1	87.4	98.7
Stable	62.4	34.4	5.4	0.0
Onshore				
Unstable	18.2	23.8	6.6	0.2
Neutral	13.4	38.0	87.9	99.8
Stable	68.4	38.2	5.5	0.0
Alongshore				
Unstable	18.1	20.0	8.1	2.3
Neutral	24.1	39.1	85.5	97.7
Stable	57.8	40.9	6.5	0.0
Offshore				
Unstable	15.5	23.0	7.1	2.2
Neutral	27.0	54.5	89.4	97.8
Stable	57.6	22.5	3.5	0.0

Table 4.5
Nantucket, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	11.1	15.0	4.8	0.5
Neutral	20.7	43.3	89.8	99.5
Stable	68.2	41.7	5.4	0.0
Onshore				
Unstable	11.4	14.1	3.7	0.0
Neutral	21.9	37.7	91.3	100.0
Stable	66.7	48.1	5.0	0.0
Alongshore				
Unstable	15.0	11.8	3.3	1.0
Neutral	19.9	43.6	90.2	99.0
Stable	65.0	44.6	6.5	0.0
Offshore				
Unstable	8.6	17.6	7.3	1.0
Neutral	19.7	48.0	87.4	99.0
Stable	71.8	34.4	5.3	0.0

Table 4.6
Belmar, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	28.2	28.6	6.8	0.0
Neutral	13.8	37.5	84.9	100.0
Stable	57.9	33.9	8.3	0.0
Onshore				
Unstable	39.6	28.4	1.8	0.0
Neutral	23.8	54.6	96.1	100.0
Stable	36.5	17.0	2.1	0.0
Alongshore				
Unstable	28.4	33.3	15.1	0.0
Neutral	16.6	39.4	80.0	100.0
Stable	55.0	27.3	5.0	0.0
Offshore				
Unstable	23.1	26.3	6.3	0.0
Neutral	8.1	27.3	82.9	100.0
Stable	68.7	46.4	10.8	0.0

Table 4.7
Lakehurst, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	19.3	26.8	8.8	0.5
Neutral	18.6	42.9	85.6	99.5
Stable	62.0	30.2	5.7	0.0
Onshore				
Unstable	18.7	23.3	8.7	0.0
Neutral	28.6	62.0	90.0	100.0
Stable	52.7	14.7	1.2	0.0
Alongshore				
Unstable	19.3	23.7	10.1	0.0
Neutral	19.8	43.8	81.8	100.0
Stable	60.8	32.5	8.1	0.0
Offshore				
Unstable	19.8	30.3	8.5	0.7
Neutral	12.1	31.0	84.7	99.3
Stable	68.1	38.7	6.7	0.0

Table 4.8
Atlantic City, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	16.5	17.2	9.1	0.4
Neutral	24.7	38.0	84.9	99.6
Stable	58.8	44.7	6.0	0.0
Onshore				
Unstable	17.4	20.9	13.6	0.0
Neutral	34.4	48.5	82.7	100.0
Stable	48.1	30.6	3.6	0.0
Alongshore				
Unstable	19.9	10.4	6.0	0.0
Neutral	25.0	41.4	87.4	100.0
Stable	55.1	48.2	6.6	0.0
Offshore				
Unstable	14.2	18.8	7.6	0.7
Neutral	19.7	28.7	85.1	99.3
Stable	66.1	52.5	7.3	0.0

Table 4.9
Wilmington, Delaware
Percent of Hours in Each Stability Class,
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	17.9	20.4	6.4	0.0
Neutral	17.9	37.2	89.2	100.0
Stable	64.3	42.4	4.5	0.0
Onshore				
Unstable	18.7	16.3	5.3	0.0
Neutral	26.6	52.8	91.0	100.0
Stable	54.7	30.9	3.7	0.0
Alongshore				
Unstable	18.6	20.4	8.3	0.0
Neutral	18.9	41.9	86.7	100.0
Stable	62.5	37.7	5.1	0.0
Offshore				
Unstable	17.1	23.7	6.4	0.0
Neutral	12.9	23.5	88.9	100.0
Stable	70.0	52.9	4.7	0.0

Table 4.10
 Wallops Island, Virginia
 Percent of Hours in Each Stability Class
 by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	37.7	38.6	11.4	2.4
Neutral	19.6	29.6	83.2	97.6
Stable	42.7	31.8	5.4	0.0
Onshore				
Unstable	44.5	53.3	19.8	3.8
Neutral	23.5	26.6	76.1	96.2
Stable	32.0	20.1	4.1	0.0
Alongshore				
Unstable	30.9	18.2	4.1	5.9
Neutral	18.3	39.1	89.6	94.1
Stable	50.8	42.8	6.3	0.0
Offshore				
Unstable	34.5	31.2	9.6	0.9
Neutral	16.6	26.7	84.7	99.1
Stable	48.9	42.1	5.7	0.0

Table 4.11
Norfolk Virginia
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.0	22.6	8.5	0.0
Neutral	13.2	32.6	84.7	100.0
Stable	71.8	44.7	6.8	0.0
Onshore				
Unstable	12.9	21.7	11.4	0.0
Neutral	13.4	34.4	83.5	100.0
Stable	73.7	43.9	5.1	0.0
Alongshore				
Unstable	16.7	22.1	7.6	8.0
Neutral	13.8	30.3	85.4	100.0
Stable	69.5	47.6	7.0	0.0
Offshore				
Unstable	18.3	25.1	7.4	0.0
Neutral	12.2	33.0	84.9	100.0
Stable	69.5	41.9	7.6	0.0

Table 4.12
Cape Hatteras, North Carolina
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	12.7	21.6	7.8	0.8
Neutral	18.7	24.9	85.4	99.2
Stable	68.6	53.5	6.8	0.0
Onshore				
Unstable	11.7	31.7	10.6	0.0
Neutral	17.6	23.3	83.9	100.0
Stable	70.8	45.1	5.6	0.0
Alongshore				
Unstable	12.1	19.5	9.8	1.3
Neutral	25.6	25.0	83.1	98.7
Stable	62.2	55.5	7.2	0.0
Offshore				
Unstable	13.9	12.8	2.9	1.0
Neutral	16.5	26.6	90.0	99.0
Stable	69.6	60.6	7.1	0.0

Table 4.13
Wilmington, North Carolina
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	20.0	26.8	11.5	0.0
Neutral	13.0	34.6	83.7	100.0
Stable	67.0	38.7	4.8	0.0
Onshore				
Unstable	16.0	36.7	17.3	0.0
Neutral	14.8	36.3	81.9	100.0
Stable	69.2	27.0	0.8	0.0
Alongshore				
Unstable	18.1	16.2	6.6	0.0
Neutral	12.5	35.3	86.4	100.0
Stable	69.5	48.5	7.0	0.0
Offshore				
Unstable	27.1	28.2	12.0	0.0
Neutral	11.9	32.3	82.2	100.0
Stable	61.0	39.5	5.7	0.0

Table 4.14
Charleston, South Carolina
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	15.6	24.9	14.6	0.0
Neutral	9.9	30.1	80.0	100.0
Stable	74.5	45.0	5.4	0.0
Onshore				
Unstable	10.9	20.2	16.4	0.0
Neutral	9.1	26.8	78.7	100.0
Stable	80.0	53.0	4.9	0.0
Alongshore				
Unstable	20.2	24.1	15.4	0.0
Neutral	10.6	32.5	79.6	100.0
Stable	69.2	43.3	5.0	0.0
Offshore				
Unstable	17.8	29.8	12.3	0.0
Neutral	10.4	31.4	81.5	100.0
Stable	71.8	38.8	6.2	0.0

Table 4.15
Brunswick, Georgia
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	28.4	42.1	16.9	0.0
Neutral	11.8	30.7	76.8	100.0
Stable	59.8	27.3	6.3	0.0
Onshore				
Unstable	27.8	50.1	21.1	0.0
Neutral	11.8	28.8	77.0	100.0
Stable	60.4	21.1	1.9	0.0
Alongshore				
Unstable	24.4	27.7	11.7	0.0
Neutral	12.0	36.7	75.8	100.0
Stable	63.6	35.6	12.5	0.0
Offshore				
Unstable	30.7	42.3	14.9	0.0
Neutral	11.7	29.2	77.5	100.0
Stable	57.6	28.5	7.5	0.0

Table 4.16
Cape Kennedy, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	16.2	43.4	21.9	0.0
Neutral	7.0	16.8	69.8	100.0
Stable	76.9	39.8	8.3	0.0
Onshore				
Unstable	17.8	55.5	31.8	0.0
Neutral	6.8	13.9	60.5	100.0
Stable	75.3	30.7	7.8	0.0
Alongshore				
Unstable	11.2	35.0	16.3	0.0
Neutral	8.1	17.9	76.6	100.0
Stable	80.6	47.1	7.1	0.0
Offshore				
Unstable	18.5	31.1	16.1	0.0
Neutral	6.2	20.9	72.5	100.0
Stable	75.2	48.0	11.5	0.0

Table 4.17
Orlando, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	17.9	27.1	12.8	6.3
Neutral	11.0	21.1	78.7	93.8
Stable	71.0	51.8	8.5	0.0
Onshore				
Unstable	16.3	22.7	13.4	0.0
Neutral	10.4	20.5	78.2	100.0
Stable	73.3	56.8	8.4	0.0
Alongshore				
Unstable	16.1	27.2	8.5	0.0
Neutral	13.9	18.9	79.7	100.0
Stable	70.0	53.9	11.8	0.0
Offshore				
Unstable	22.1	33.2	14.4	6.7
Neutral	9.5	23.8	78.9	93.3
Stable	68.4	43.0	6.7	0.0

Table 4.18
Miami, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.2	22.8	15.6	4.5
Neutral	9.9	18.4	76.8	95.5
Stable	74.9	58.8	7.7	0.0
Onshore				
Unstable	10.1	24.2	17.6	0.0
Neutral	8.5	18.2	74.5	100.0
Stable	80.8	57.5	7.9	0.0
Alongshore				
Unstable	18.5	24.0	15.5	20.0
Neutral	12.4	18.7	81.1	80.0
Stable	69.0	57.3	3.4	0.0
Offshore				
Unstable	17.1	20.0	9.5	0.0
Neutral	10.2	18.9	81.6	100.0
Stable	72.7	61.2	8.9	0.0

Table 4.19
Fort Myers, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	12.5	29.0	20.6	0.0
Neutral	10.1	16.4	70.9	100.0
Stable	77.4	54.5	8.5	0.0
Onshore				
Unstable	18.3	39.0	24.9	0.0
Neutral	18.5	15.2	69.7	100.0
Stable	63.2	45.8	5.4	0.0
Alongshore				
Unstable	11.9	28.7	14.4	0.0
Neutral	13.0	21.3	75.9	100.0
Stable	75.2	50.0	9.7	0.0
Offshore				
Unstable	11.6	25.0	19.4	0.0
Neutral	7.8	15.4	70.5	100.0
Stable	80.6	59.6	10.1	0.0

Table 4.20
Tampa, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec^{-1})			
	0.5-2.4	2.5-4.9	5.0-9.9	≥ 10.0
All Directions				
Unstable	9.6	27.0	16.7	4.5
Neutral	9.1	22.3	75.5	95.5
Stable	81.3	50.7	7.8	0.0
Onshore				
Unstable	10.8	41.9	23.5	6.7
Neutral	10.1	21.8	72.3	93.3
Stable	79.1	36.3	4.2	0.0
Alongshore				
Unstable	15.0	22.9	13.1	0.0
Neutral	12.0	24.2	79.4	100.0
Stable	73.0	52.9	7.5	0.0
Offshore				
Unstable	7.4	20.5	12.0	0.0
Neutral	8.1	21.7	76.2	0.0
Stable	84.6	57.8	11.7	0.0

Table 4.21
Tallahassee, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	>10.0
All Directions				
Unstable	18.6	34.6	17.5	0.0
Neutral	11.6	30.9	78.8	100.0
Stable	69.9	34.5	3.7	0.0
Onshore				
Unstable	20.7	31.4	16.6	0.0
Neutral	14.1	39.2	80.6	100.0
Stable	65.1	29.4	2.8	0.0
Alongshore				
Unstable	15.6	32.5	22.9	0.0
Neutral	10.2	29.7	69.1	100.0
Stable	74.2	37.8	8.0	0.0
Offshore				
Unstable	18.1	38.1	16.6	0.0
Neutral	10.0	24.9	80.0	0.0
Stable	71.9	37.0	3.4	0.0

Table 4.22
Pensacola, Florida
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	14.1	24.5	15.2	0.0
Neutral	17.8	28.5	77.4	100.0
Stable	68.1	47.0	7.4	0.0
Onshore				
Unstable	16.4	33.0	19.1	0.0
Neutral	17.6	29.2	75.7	100.0
Stable	65.9	37.8	5.2	0.0
Alongshore				
Unstable	14.5	16.3	11.6	0.0
Neutral	22.0	35.4	76.1	0.0
Stable	63.5	48.3	12.3	0.0
Offshore				
Unstable	12.8	21.8	10.6	0.0
Neutral	14.7	22.4	80.8	100.0
Stable	72.5	55.8	8.6	0.0

Table 4.23
Mobile, Alabama
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	14.6	20.7	9.5	0.0
Neutral	15.9	30.7	84.8	100.0
Stable	69.5	48.6	5.7	0.0
Onshore				
Unstable	12.7	16.0	9.1	0.0
Neutral	16.8	32.8	85.9	100.0
Stable	70.4	51.1	4.9	0.0
Alongshore				
Unstable	20.4	27.5	13.2	0.0
Neutral	15.1	31.8	81.6	100.0
Stable	64.4	40.7	5.2	0.0
Offshore				
Unstable	12.2	21.5	8.6	0.0
Neutral	16.4	28.4	84.8	100.0
Stable	71.4	50.0	6.6	0.0

Table 4.24
Biloxi, Mississippi
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	37.6	45.0	20.9	5.5
Neutral	14.8	29.9	72.9	94.5
Stable	47.6	25.1	6.2	0.0
Onshore				
Unstable	36.7	52.1	31.5	10.4
Neutral	13.0	25.4	63.2	89.6
Stable	50.4	22.5	5.3	0.0
Alongshore				
Unstable	37.2	39.1	16.4	0.0
Neutral	17.3	37.3	78.9	100.0
Stable	45.5	23.6	4.6	0.0
Offshore				
Unstable	38.2	36.8	10.0	0.0
Neutral	15.6	34.4	82.0	100.0
Stable	46.2	28.9	8.0	0.0

Table 4.25
New Orleans, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.3	27.8	14.6	0.0
Neutral	8.5	26.6	80.0	100.0
Stable	76.2	45.6	5.4	0.0
Onshore				
Unstable	14.0	17.3	11.6	0.0
Neutral	9.2	29.4	82.3	100.0
Stable	76.8	53.3	6.1	0.0
Alongshore				
Unstable	10.7	23.3	15.3	0.0
Neutral	8.9	27.0	81.1	0.0
Stable	80.4	49.7	3.6	0.0
Offshore				
Unstable	19.2	40.6	17.5	0.0
Neutral	7.9	23.4	77.2	100.0
Stable	72.9	35.9	5.3	0.0

Table 4.26
Boothville, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.0	30.4	12.6	5.5
Neutral	9.3	24.3	79.2	94.5
Stable	75.7	45.3	8.2	0.0
Onshore				
Unstable	15.1	22.1	11.4	28.8
Neutral	8.0	25.0	78.8	71.2
Stable	76.9	52.9	9.8	0.0
Alongshore				
Unstable	10.4	20.4	19.2	0.0
Neutral	8.6	24.1	70.1	0.0
Stable	81.1	55.5	10.7	0.0
Offshore				
Unstable	18.7	44.1	12.0	0.0
Neutral	11.4	23.8	81.8	100.0
Stable	69.9	32.0	6.1	0.0

Table 4.27
Lake Charles, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	13.9	23.4	10.2	3.5
Neutral	11.1	30.4	86.8	96.5
Stable	74.9	46.2	3.0	0.0
Onshore				
Unstable	13.1	20.6	11.9	4.5
Neutral	10.6	35.3	85.7	95.5
Stable	76.2	44.1	2.5	0.0
Alongshore				
Unstable	13.2	27.4	13.8	0.0
Neutral	11.9	28.1	83.5	100.0
Stable	74.9	44.5	2.6	0.0
Offshore				
Unstable	15.4	24.4	7.0	2.8
Neutral	11.1	24.4	89.2	97.2
Stable	73.5	51.2	3.8	0.0

Table 4.28
Galveston, Texas
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	27.6	39.4	15.3	1.0
Neutral	15.0	27.4	80.0	99.0
Stable	57.4	33.2	4.6	0.0
Onshore				
Unstable	27.4	41.3	19.4	2.8
Neutral	16.0	25.2	75.3	97.2
Stable	56.7	33.5	5.3	0.0
Alongshore				
Unstable	23.9	32.7	9.5	0.0
Neutral	11.3	35.5	87.2	100.0
Stable	64.8	31.8	3.4	0.0
Offshore				
Unstable	31.2	37.1	7.0	1.1
Neutral	16.7	29.8	89.7	98.9
Stable	52.1	33.1	3.3	0.0

Table 4.29
Houston, Texas
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	15.2	22.7	8.1	3.1
Neutral	9.0	29.3	87.2	96.9
Stable	75.8	48.0	4.6	0.0
Onshore				
Unstable	12.2	21.3	9.0	3.7
Neutral	77.6	26.7	87.0	96.3
Stable	80.2	52.0	4.1	9.0
Alongshore				
Unstable	19.8	29.6	11.2	12.5
Neutral	10.4	32.2	84.6	87.5
Stable	69.8	38.2	4.2	0.0
Offshore				
Unstable	17.2	20.5	5.4	2.5
Neutral	10.5	32.7	88.7	97.5
Stable	72.3	46.7	5.9	0.0

Table 4.30
Brownsville, Texas
Percent of Hours in Each Stability Class
by Wind Direction and Speed

Stability	Wind Speed (msec ⁻¹)			
	0.5-2.4	2.5-4.9	5.0-9.9	≥10.0
All Directions				
Unstable	6.9	14.3	8.2	10.7
Neutral	10.3	24.9	86.0	89.3
Stable	82.8	60.7	5.8	0.0
Onshore				
Unstable	6.5	11.6	7.8	2.4
Neutral	5.6	20.6	84.8	97.6
Stable	88.0	67.8	7.4	0.0
Alongshore				
Unstable	3.7	17.9	9.6	13.1
Neutral	12.5	25.5	86.2	86.9
Stable	83.8	56.6	4.2	0.0
Offshore				
Unstable	12.1	18.2	3.9	6.3
Neutral	17.6	40.8	92.4	93.8
Stable	70.3	41.0	3.7	0.0

Table 5.1
 Portland, Maine
 Percent of Hours in Each Stability Class
 by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.0	0.1	0.1	0.0	0.0
Unstable	2.9	3.5	5.0	1.6	1.2
Slightly Unstable	11.7	11.3	19.0	10.0	6.2
Neutral Day	26.6	33.4	25.9	26.2	20.6
Neutral Night	24.2	23.1	14.7	25.7	33.5
Slightly Stable	14.8	13.9	12.6	14.8	18.2
Stable	13.3	9.2	14.7	14.1	15.2
Very Stable	6.5	5.4	8.0	7.6	5.1
Day, All Directions					
Very Unstable	0.1	0.1	0.1	0.0	0.0
Unstable	7.0	7.3	10.1	4.3	4.2
Slightly Unstable	28.4	23.5	38.0	26.4	22.1
Neutral Day	64.6	69.1	51.8	69.2	73.6
Night, All Directions					
Neutral Night	41.1	44.7	29.3	41.4	46.5
Slightly Stable	25.2	27.0	25.1	23.8	25.2
Stable	22.6	17.9	29.5	22.7	21.1
Very Stable	11.1	10.4	16.0	12.2	7.1

Table 5.11 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.1	0.3	0.0	0.0	0.0
Unstable	6.4	6.5	9.4	3.9	3.4
Slightly Unstable	18.1	17.7	24.6	15.2	7.5
Neutral Day	35.7	40.8	34.0	34.3	31.0
Neutral Night	23.0	24.0	12.3	29.7	35.0
Slightly Stable	7.7	4.8	7.9	9.3	10.8
Stable	5.8	4.3	7.7	4.2	8.3
Very Stable	3.2	1.6	4.1	3.3	4.1
Day, Onshore					
Very Unstable	0.1	0.5	0.0	0.0	0.0
Unstable	10.7	9.9	13.8	7.4	8.0
Slightly Unstable	30.0	27.0	36.2	28.3	18.1
Neutral Day	59.2	62.7	50.0	64.3	73.9
Night, Onshore					
Neutral Night	58.0	69.2	38.3	63.4	60.3
Slightly Stable	19.4	13.8	24.6	20.0	18.6
Stable	14.7	12.3	24.2	9.3	14.1
Very Stable	8.0	4.6	12.9	7.2	7.0

Table 5.1 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	1.2	0.9	1.9	1.0	0.9
Slightly Unstable	8.1	7.9	10.9	9.2	3.3
Neutral Day	28.0	38.6	28.6	25.6	19.2
Neutral Night	33.1	26.3	25.7	35.9	45.5
Slightly Stable	17.0	16.2	18.6	16.3	16.8
Stable	9.0	6.7	9.9	8.8	10.7
Very Stable	3.6	3.4	4.4	3.1	3.6
Day, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	3.3	2.0	4.6	3.2	3.4
Slightly Unstable	21.6	17.1	26.3	26.0	14.2
Neutral Day	75.1	80.9	69.1	70.8	82.4
Night, Alongshore					
Neutral Night	52.8	50.6	43.8	56.1	59.4
Slightly Stable	27.1	30.7	31.7	25.4	22.0
Stable	14.3	12.4	16.9	13.8	13.9
Very Stable	5.7	6.3	7.5	4.7	4.7

Table 5.1 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.0	0.0	0.2	0.0	0.0
Unstable	2.0	2.9	4.4	1.1	0.4
Slightly Unstable	10.8	9.5	21.0	8.0	6.9
Neutral Day	23.0	29.1	19.6	23.5	20.0
Neutral Night	20.9	21.1	9.5	19.1	30.1
Slightly Stable	16.4	16.8	11.2	15.7	19.9
Stable	19.1	13.5	22.9	22.3	18.6
Very Stable	7.7	7.0	11.2	10.3	4.1
Day, Offshore					
Very Unstable	0.1	0.0	0.4	0.0	0.0
Unstable	5.6	7.0	9.8	3.4	1.5
Slightly Unstable	30.1	22.8	46.5	24.5	25.2
Neutral Day	64.1	70.2	43.4	72.1	73.2
Night, Offshore					
Neutral Night	32.6	36.0	17.4	28.3	41.4
Slightly Stable	25.5	28.8	20.5	23.3	27.4
Stable	29.8	23.1	41.7	33.1	25.6
Very Stable	12.0	12.0	20.4	15.3	5.7

Table 5.2
Boston, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.1	0.1	0.4	0.0	0.0
Unstable	1.7	2.3	2.9	1.0	0.5
Slightly Unstable	7.6	8.7	13.9	5.3	2.5
Neutral Day	31.8	37.2	32.7	31.9	25.5
Neutral Night	40.1	35.5	28.4	43.1	53.9
Slightly Stable	12.7	10.9	14.7	12.6	12.5
Stable	4.4	3.7	5.5	4.9	3.3
Very Stable	1.5	1.7	1.4	1.2	1.8
Day, All Directions					
Very Unstable	0.3	0.1	0.8	0.0	0.0
Unstable	4.1	4.8	5.8	2.7	1.7
Slightly Unstable	18.5	18.0	27.9	13.8	8.8
Neutral Day	77.1	77.0	65.5	83.5	89.5
Night, All Directions					
Neutral Night	68.3	68.5	56.8	69.7	75.3
Slightly Stable	21.6	21.0	29.5	20.4	17.5
Stable	7.4	7.2	11.0	7.9	4.7
Very Stable	2.6	3.3	2.7	2.0	2.5

Table 5.2 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.2	0.0	0.8	0.0	0.0
Unstable	3.2	4.0	5.2	2.2	0.5
Slightly Unstable	12.5	12.6	22.8	7.3	3.9
Neutral Day	38.4	43.2	38.1	37.2	34.7
Neutral Night	30.8	26.0	16.4	38.6	46.8
Slightly Stable	8.7	8.6	9.4	9.3	7.1
Stable	3.8	3.3	4.4	3.7	3.5
Very Stable	2.4	2.3	2.9	1.6	3.4
Day, Onshore					
Very Unstable	0.4	0.0	1.2	0.0	0.0
Unstable	5.9	6.5	7.7	4.6	1.2
Slightly Unstable	22.9	20.9	34.1	16.0	9.8
Neutral Day	70.8	72.7	57.0	79.4	89.0
Night, Onshore					
Neutral Night	67.4	64.3	48.9	72.6	76.5
Slightly Stable	19.1	21.2	28.4	17.7	11.8
Stable	8.3	8.4	13.6	6.8	5.8
Very Stable	5.2	6.0	9.0	2.9	5.9

Table 5.2 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.1	0.4	0.0	0.0	0.0
Unstable	1.1	2.2	1.9	0.7	0.0
Slightly Unstable	5.2	8.6	5.3	4.6	3.2
Neutral Day	26.4	30.2	33.2	23.6	21.0
Neutral Night	42.1	36.1	32.9	44.5	51.9
Slightly Stable	15.7	15.0	16.5	16.4	14.8
Stable	7.4	5.7	8.5	9.2	5.7
Very Stable	2.0	1.7	1.6	1.0	3.5
Day, Alongshore					
Very Unstable	0.3	1.2	0.0	0.0	0.0
Unstable	3.6	6.1	4.7	2.4	0.0
Slightly Unstable	15.8	21.0	13.2	16.0	12.3
Neutral Day	80.3	71.7	82.1	81.6	87.7
Night, Alongshore					
Neutral Night	62.9	61.9	54.8	62.7	68.5
Slightly Stable	23.4	26.2	28.0	23.1	19.6
Stable	10.8	9.2	14.5	12.8	7.5
Very Stable	2.9	2.7	2.7	1.4	4.5

Table 5.2 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.1	0.0	0.2	0.0	0.0
Unstable	1.0	1.2	2.2	0.3	0.4
Slightly Unstable	6.1	6.5	12.1	3.8	1.9
Neutral Day	30.7	36.5	30.0	32.5	24.7
Neutral Night	44.3	40.6	33.1	45.5	56.6
Slightly Stable	13.5	11.0	16.7	13.4	13.1
Stable	3.7	3.5	5.1	4.1	2.5
Very Stable	0.6	0.7	0.5	0.5	0.7
Day, Offshore					
Very Unstable	0.2	0.0	0.5	0.0	0.0
Unstable	2.7	2.7	5.0	0.8	1.5
Slightly Unstable	16.0	14.8	27.1	10.2	7.2
Neutral Day	81.1	82.5	67.3	89.0	91.3
Night, Offshore					
Neutral Night	71.3	72.9	59.7	71.3	77.6
Slightly Stable	21.7	19.6	30.2	21.4	17.9
Stable	6.0	6.3	9.2	6.6	3.4
Very Stable	1.0	1.2	0.9	0.8	1.0

Table 5.3
Bedford, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.8	0.8	2.0	0.4	0.0
Unstable	5.9	5.0	11.0	5.7	1.7
Slightly Unstable	11.4	11.3	17.0	10.7	6.6
Neutral Day	24.4	29.6	22.8	21.5	23.6
Neutral Night	19.0	18.4	10.2	18.2	29.4
Slightly Stable	14.0	13.4	10.5	15.3	16.8
Stable	8.5	8.7	9.0	8.4	7.9
Very Stable	16.0	12.7	17.4	19.8	14.1
Day, All Directions					
Very Unstable	1.9	1.8	3.7	1.1	0.0
Unstable	13.9	10.8	20.8	14.9	5.5
Slightly Unstable	26.9	24.2	32.2	28.0	20.6
Neutral Day	57.3	63.2	43.2	56.0	74.0
Night, All Directions					
Neutral Night	33.1	34.6	21.7	29.5	43.2
Slightly Stable	24.3	25.2	22.3	24.8	24.6
Stable	14.8	16.3	19.1	13.6	11.5
Very Stable	27.8	23.9	36.8	32.0	20.7

Table 5.3 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.6	0.7	2.0	0.0	0.0
Unstable	6.6	7.7	13.2	5.8	1.6
Slightly Unstable	10.4	12.8	17.4	8.6	4.8
Neutral Day	34.9	37.0	37.0	31.8	33.4
Neutral Night	32.0	26.6	13.9	35.5	48.8
Slightly Stable	8.5	6.6	9.6	10.5	7.1
Stable	4.1	5.4	4.2	4.4	2.4
Very Stable	2.8	3.2	2.8	3.3	2.0
Day, Onshore					
Very Unstable	1.1	1.3	2.9	0.0	0.0
Unstable	12.5	13.3	18.9	12.2	4.0
Slightly Unstable	19.9	21.9	24.9	18.5	12.0
Neutral Day	66.5	63.5	53.2	69.3	84.0
Night, Onshore					
Neutral Night	67.4	63.6	45.4	66.0	81.0
Slightly Stable	17.9	15.9	31.5	19.5	11.8
Stable	8.7	12.9	13.8	8.3	4.0
Very Stable	6.0	7.6	9.2	6.2	3.3

Table 5.3 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.2	0.9	3.5	0.4	0.0
Unstable	5.7	6.2	10.4	5.3	1.1
Slightly Unstable	13.1	15.0	17.7	12.8	7.1
Neutral Day	28.9	32.3	26.6	28.5	28.7
Neutral Night	27.2	20.8	16.9	27.9	41.4
Slightly Stable	11.9	12.5	11.8	12.2	11.5
Stable	7.2	6.8	7.3	8.2	6.8
Very Stable	4.8	5.4	5.7	4.7	3.4
Day, Alongshore					
Very Unstable	2.5	1.7	6.1	0.8	0.0
Unstable	11.6	11.3	17.9	11.4	2.9
Slightly Unstable	26.7	26.9	30.4	27.3	19.5
Neutral Day	59.3	60.1	45.6	60.4	77.6
Night, Alongshore					
Neutral Night	53.2	45.3	40.5	52.4	65.5
Slightly Stable	23.3	27.8	28.3	23.3	18.2
Stable	14.2	15.2	17.4	15.4	10.9
Very Stable	9.3	11.7	13.8	8.9	5.4

Table 5.3 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.6	0.5	1.6	0.1	0.0
Unstable	5.5	3.4	11.6	5.0	0.9
Slightly Unstable	12.2	10.5	19.4	12.7	4.6
Neutral Day	28.6	33.6	24.8	28.5	27.9
Neutral Night	17.4	18.7	9.9	15.4	26.7
Slightly Stable	15.2	15.7	11.1	15.3	19.8
Stable	13.6	12.5	13.0	16.2	13.3
Very Stable	6.9	5.0	8.6	6.9	6.8
Day, Offshore					
Very Unstable	1.4	1.0	2.8	0.3	0.0
Unstable	11.8	7.1	20.3	10.7	2.7
Slightly Unstable	25.9	21.9	33.8	27.4	13.8
Neutral Day	60.9	69.9	43.1	61.6	83.5
Night, Offshore					
Neutral Night	32.8	36.0	23.3	28.6	40.0
Slightly Stable	28.7	30.1	26.2	28.4	29.8
Stable	25.6	24.1	30.5	30.2	19.9
Very Stable	12.9	9.7	20.1	12.9	10.3

Table 5.4
Falmouth, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.5	0.5	1.2	0.3	0.0
Unstable	3.8	3.4	7.7	3.4	0.6
Slightly Unstable	9.9	11.0	14.5	8.7	5.1
Neutral Day	28.5	31.8	29.2	26.1	26.7
Neutral Night	26.2	24.7	17.5	25.5	37.4
Slightly Stable	12.6	11.2	12.0	13.1	14.2
Stable	8.3	8.9	7.2	9.0	8.1
Very Stable	10.3	8.6	10.7	14.0	7.8
Day, All Directions					
Very Unstable	1.1	1.0	2.3	0.5	0.0
Unstable	8.9	7.2	14.6	8.8	1.9
Slightly Unstable	23.2	23.5	27.6	22.7	15.8
Neutral Day	66.9	68.2	55.5	68.0	82.3
Night, All Directions					
Neutral Night	45.6	46.2	36.9	41.4	55.3
Slightly Stable	22.0	20.9	25.4	21.2	21.0
Stable	14.5	16.7	15.1	14.7	12.0
Very Stable	17.9	16.2	22.5	22.8	11.6

Table 5.4 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.4	0.3	1.7	0.1	0.0
Unstable	3.9	3.4	11.3	3.5	0.6
Slightly Unstable	10.3	11.2	19.8	9.9	5.1
Neutral Day	29.2	32.3	27.4	29.6	27.3
Neutral Night	28.0	25.6	13.6	26.8	38.0
Slightly Stable	11.9	11.6	9.1	12.4	13.3
Stable	10.7	10.8	10.2	10.9	11.0
Very Stable	5.7	4.9	6.9	6.8	4.7
Day, Onshore					
Very Unstable	0.9	0.6	2.8	0.1	0.0
Unstable	8.9	7.2	18.9	8.2	1.8
Slightly Unstable	23.5	23.4	32.9	23.0	15.4
Neutral Day	66.8	68.7	45.3	68.7	82.8
Night, Onshore					
Neutral Night	49.7	48.4	34.2	47.1	56.7
Slightly Stable	21.1	21.9	22.9	21.8	19.8
Stable	19.1	20.4	25.7	19.1	16.4
Very Stable	10.1	9.2	17.2	12.0	7.1

Table 5.4 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.3	0.3	0.6	0.1	0.0
Unstable	3.0	3.1	5.4	3.1	0.1
Slightly Unstable	9.5	10.6	13.9	8.9	3.8
Neutral Day	32.7	36.0	34.3	29.1	30.4
Neutral Night	30.4	27.3	23.0	29.6	43.4
Slightly Stable	12.7	11.7	12.8	13.3	13.4
Stable	7.9	8.0	6.9	10.7	6.4
Very Stable	3.4	3.0	3.2	5.2	2.5
Day, Alongshore					
Very Unstable	0.6	0.5	1.2	0.3	0.0
Unstable	6.6	6.3	9.9	7.5	0.3
Slightly Unstable	20.9	21.2	25.6	21.3	11.8
Neutral Day	71.9	72.1	63.4	70.9	88.0
Night, Alongshore					
Neutral Night	55.9	54.5	50.1	50.1	66.0
Slightly Stable	23.4	23.4	27.9	22.8	20.6
Stable	14.5	16.0	15.0	18.2	9.7
Very Stable	6.3	6.1	7.0	8.9	3.7

Table 5.4 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.3	0.2	0.6	0.0	0.0
Unstable	4.2	3.4	7.6	2.5	0.5
Slightly Unstable	10.5	12.2	12.2	8.8	6.0
Neutral Day	33.8	35.0	35.8	31.1	32.2
Neutral Night	28.0	26.4	20.7	29.9	45.3
Slightly Stable	10.5	9.1	11.8	11.0	9.0
Stable	7.4	9.1	6.7	8.2	4.3
Very Stable	5.3	4.6	4.6	8.6	2.7
Day, Offshore					
Very Unstable	0.5	0.3	1.1	0.0	0.0
Unstable	8.6	6.7	13.6	5.8	1.2
Slightly Unstable	21.5	24.0	21.6	20.6	15.5
Neutral Day	69.4	69.0	63.7	73.5	83.2
Night, Offshore					
Neutral Night	54.7	53.7	47.4	51.9	73.9
Slightly Stable	20.6	18.6	27.0	19.1	14.7
Stable	14.4	18.6	15.2	14.2	7.0
Very Stable	10.4	9.2	10.4	14.9	4.5

Table 5.5
Nantucket, Massachusetts
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.1	0.1	0.3	0.0	0.0
Unstable	1.4	0.8	3.5	1.1	0.1
Slightly Unstable	6.7	7.1	12.2	6.0	1.3
Neutral Day	34.1	40.6	34.2	34.3	27.2
Neutral Night	37.1	30.5	27.7	37.0	53.5
Slightly Stable	11.8	12.6	12.1	12.1	10.5
Stable	7.3	6.9	7.6	8.6	6.2
Very Stable	1.5	1.4	2.5	1.0	1.1
Day, All Directions					
Very Unstable	0.2	0.3	0.5	0.0	0.0
Unstable	3.3	1.7	7.1	2.7	0.2
Slightly Unstable	15.8	14.7	24.3	14.4	4.6
Neutral Day	80.6	83.4	68.1	82.9	95.2
Night, All Directions					
Neutral Night	64.3	59.4	55.5	62.9	75.0
Slightly Stable	20.5	24.6	24.2	20.6	14.8
Stable	12.6	13.4	15.2	14.8	8.7
Very Stable	2.6	2.6	5.1	1.7	1.5

Table 5.5 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	1.1	0.9	3.7	1.0	0.1
Slightly Unstable	5.6	5.1	14.5	6.8	1.0
Neutral Day	33.2	41.2	35.9	34.5	25.5
Neutral Night	40.1	32.9	23.7	37.7	53.9
Slightly Stable	11.2	11.2	11.9	10.9	11.2
Stable	7.7	7.6	7.9	8.7	7.1
Very Stable	1.1	1.3	2.4	0.3	1.0
Day, Onshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	2.8	1.9	6.7	2.4	0.5
Slightly Unstable	14.0	10.6	26.7	16.0	3.9
Neutral Day	83.2	87.5	66.5	81.6	95.6
Night, Onshore					
Neutral Night	66.6	62.1	51.7	65.4	73.6
Slightly Stable	18.7	21.1	26.3	18.8	15.3
Stable	12.8	14.4	17.0	15.1	9.7
Very Stable	1.9	2.4	5.1	0.6	1.4

Table 5.5 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.3	0.6	0.7	0.0	0.0
Unstable	1.2	0.9	2.8	1.2	0.0
Slightly Unstable	5.1	7.5	9.4	4.0	0.5
Neutral Day	34.2	38.8	34.1	33.2	30.8
Neutral Night	38.2	28.4	28.4	40.1	53.4
Slightly Stable	12.9	16.4	13.5	11.6	10.8
Stable	7.4	6.8	9.8	8.9	4.0
Very Stable	0.8	0.7	1.3	1.0	0.5
Day, Alongshore					
Very Unstable	0.7	1.3	1.4	0.0	0.0
Unstable	2.9	2.0	5.8	3.2	0.0
Slightly Unstable	12.4	15.8	20.0	10.3	1.7
Neutral Day	84.0	80.9	72.8	86.5	98.3
Night, Alongshore					
Neutral Night	64.4	54.6	53.3	65.0	77.7
Slightly Stable	21.8	31.2	25.5	18.9	15.8
Stable	12.4	12.9	18.7	14.6	5.8
Very Stable	1.4	1.3	2.4	1.6	0.7

Table 5.5 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.1	0.0	0.3	0.0	0.0
Unstable	1.9	0.8	3.8	1.0	0.0
Slightly Unstable	9.3	9.3	12.4	6.7	3.7
Neutral Day	35.4	40.9	33.9	35.9	27.1
Neutral Night	33.3	29.0	29.7	33.2	53.8
Slightly Stable	11.8	12.4	11.5	14.3	7.6
Stable	6.8	6.4	6.5	8.0	6.8
Very Stable	1.4	1.2	1.9	0.8	1.0
Day, Offshore					
Very Unstable	0.2	0.0	0.5	0.0	0.0
Unstable	4.1	1.5	7.5	2.5	0.0
Slightly Unstable	19.9	18.2	24.7	15.4	12.2
Neutral Day	75.9	80.3	67.3	82.1	87.8
Night, Offshore					
Neutral Night	62.6	59.1	59.9	58.9	77.8
Slightly Stable	21.9	25.4	23.2	25.4	11.0
Stable	12.8	13.2	13.0	14.4	9.8
Very Stable	2.7	2.3	3.9	1.4	1.5

Table 5.6
Belmar, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	1.5	1.3	4.3	0.4	0.0
Unstable	9.4	8.7	17.8	9.1	1.7
Slightly Unstable	13.6	15.4	18.0	12.9	7.8
Neutral Day	17.6	21.6	11.0	16.0	21.8
Neutral Night	14.5	14.1	6.6	14.2	23.3
Slightly Stable	15.7	15.3	12.6	13.8	21.2
Stable	11.1	10.4	9.0	13.2	12.0
Very Stable	16.6	13.2	20.7	20.2	12.2
Day, All Directions					
Very Unstable	3.6	2.9	8.3	1.1	0.0
Unstable	22.3	18.4	34.9	23.7	5.3
Slightly Unstable	32.3	32.8	35.2	33.5	25.1
Neutral Day	41.9	46.0	21.5	41.7	69.7
Night, All Directions					
Neutral Night	25.0	26.5	13.4	23.1	32.9
Slightly Stable	27.1	28.9	25.8	22.5	30.9
Stable	19.2	19.7	18.3	21.5	17.4
Very Stable	28.6	24.9	42.5	32.9	17.8

Table 5.6 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	2.3	2.4	7.8	0.0	0.0
Unstable	13.6	12.3	30.5	10.4	2.7
Slightly Unstable	13.7	17.3	19.8	9.7	7.5
Neutral Day	22.8	26.2	15.4	20.7	29.2
Neutral Night	24.1	23.7	8.3	25.4	41.8
Slightly Stable	12.4	10.4	8.7	17.5	10.4
Stable	5.8	4.2	3.8	9.3	4.1
Very Stable	5.3	3.5	5.6	7.0	4.4
Day, Onshore					
Very Unstable	4.4	4.3	10.8	0.0	0.0
Unstable	26.0	21.2	41.4	25.4	6.7
Slightly Unstable	26.2	29.8	27.0	23.8	19.1
Neutral Day	43.4	44.7	20.8	50.8	74.2
Night, Onshore					
Neutral Night	51.0	57.2	32.0	42.9	69.6
Slightly Stable	26.0	24.7	33.7	29.5	16.9
Stable	12.2	10.0	14.9	15.7	6.7
Very Stable	10.8	8.1	19.3	11.9	6.8

Table 5.6 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.4	1.4	2.7	0.2	0.0
Unstable	10.5	11.5	14.8	9.1	2.4
Slightly Unstable	17.1	17.1	19.2	18.8	10.3
Neutral Day	18.2	20.9	15.2	15.7	24.4
Neutral Night	14.8	16.6	10.0	13.9	23.9
Slightly Stable	14.3	12.1	13.5	12.7	21.2
Stable	10.9	12.0	9.4	12.5	10.1
Very Stable	12.9	8.5	15.1	17.0	7.6
Day, Alongshore					
Very Unstable	2.8	2.8	5.2	0.6	0.0
Unstable	22.2	22.5	28.2	20.7	6.0
Slightly Unstable	36.3	33.6	36.9	42.8	27.1
Neutral Day	38.6	41.1	29.7	35.9	66.9
Night, Alongshore					
Neutral Night	27.9	33.8	20.3	25.0	37.8
Slightly Stable	26.9	24.3	27.9	22.5	33.4
Stable	20.6	24.3	19.8	22.3	16.3
Very Stable	24.6	17.6	32.0	30.1	12.4

Table 5.6 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.8	0.7	2.8	0.1	0.0
Unstable	7.9	6.4	19.4	8.5	1.0
Slightly Unstable	11.9	14.5	17.2	11.3	6.9
Neutral Day	18.6	23.3	9.0	17.1	22.4
Neutral Night	12.2	9.5	3.9	9.5	21.2
Slightly Stable	15.8	15.4	9.0	11.4	23.3
Stable	15.7	15.4	12.7	19.5	15.5
Very Stable	17.2	15.0	25.9	22.6	9.7
Day, Offshore					
Very Unstable	1.9	1.5	5.7	0.1	0.0
Unstable	20.1	14.2	40.3	23.0	3.2
Slightly Unstable	30.5	32.3	35.6	30.5	22.9
Neutral Day	47.5	51.9	18.4	46.4	73.9
Night, Offshore					
Neutral Night	20.0	17.2	7.6	14.9	30.4
Slightly Stable	26.0	27.9	17.5	18.0	33.5
Stable	25.8	27.8	24.5	31.1	22.2
Very Stable	28.2	27.2	50.5	36.0	13.9

Table 5.7
Lakehurst, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.6	0.4	1.7	0.4	0.0
Unstable	5.3	4.6	10.2	5.3	1.0
Slightly Unstable	12.7	11.7	19.6	12.1	7.2
Neutral Day	23.5	30.4	19.5	20.8	23.1
Neutral Night	16.1	17.0	7.2	15.3	25.0
Slightly Stable	14.7	13.9	12.5	13.7	18.6
Stable	9.7	10.0	9.0	9.5	10.2
Very Stable	17.5	12.1	20.1	22.9	14.8
Day, All Directions					
Very Unstable	1.5	0.8	3.4	1.1	0.0
Unstable	12.6	9.7	20.0	13.7	3.3
Slightly Unstable	30.1	24.8	38.4	31.3	23.1
Neutral Day	55.8	64.7	38.2	54.0	73.7
Night, All Directions					
Neutral Night	27.8	32.0	14.8	24.9	36.4
Slightly Stable	25.3	26.2	25.7	22.3	27.1
Stable	16.7	18.9	18.5	15.5	14.9
Very Stable	30.2	22.9	41.0	37.3	21.7

Table 5.7 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.4	0.2	1.1	0.0	0.0
Unstable	6.2	5.2	11.6	5.1	1.4
Slightly Unstable	12.0	11.7	20.4	8.6	4.5
Neutral Day	30.6	35.4	26.2	32.0	25.8
Neutral Night	24.2	27.2	9.9	24.7	41.6
Slightly Stable	13.2	10.6	13.5	15.0	14.4
Stable	6.1	5.7	7.7	5.7	5.0
Very Stable	7.3	4.0	9.6	9.0	7.4
Day, Onshore					
Very Unstable	0.7	0.3	1.8	0.0	0.0
Unstable	12.6	9.8	19.4	10.6	4.4
Slightly Unstable	24.4	22.2	34.4	18.7	14.7
Neutral Day	62.3	67.6	44.4	70.7	80.9
Night, Onshore					
Neutral Night	47.6	57.3	24.4	45.2	60.9
Slightly Stable	25.9	22.5	33.0	27.2	21.0
Stable	12.0	12.0	18.8	10.8	7.3
Very Stable	14.5	8.2	23.7	16.9	10.8

Table 5.7 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.8	0.5	2.0	0.0	0.0
Unstable	6.0	5.9	8.2	6.0	1.6
Slightly Unstable	12.5	8.2	15.3	12.5	12.9
Neutral Day	23.0	29.9	22.7	20.7	17.9
Neutral Night	16.8	19.9	9.3	18.4	25.5
Slightly Stable	15.7	12.7	17.9	14.7	16.5
Stable	12.7	11.0	13.0	13.6	13.1
Very Stable	12.5	11.9	11.6	14.0	12.5
Day, Alongshore					
Very Unstable	1.8	1.1	4.1	0.0	0.0
Unstable	14.2	12.7	16.9	15.6	4.9
Slightly Unstable	29.5	18.6	31.8	31.2	39.9
Neutral Day	54.5	67.6	47.1	53.2	55.2
Night, Alongshore					
Neutral Night	29.1	35.1	18.0	30.3	37.6
Slightly Stable	27.2	22.9	34.4	24.2	24.4
Stable	22.1	20.1	25.2	22.6	19.5
Very Stable	21.6	21.9	22.4	22.9	18.5

Table 5.7 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.5	0.4	1.8	0.1	0.0
Unstable	4.9	3.7	12.3	5.9	0.6
Slightly Unstable	14.3	13.3	26.1	17.1	6.4
Neutral Day	26.9	33.2	21.6	24.2	27.1
Neutral Night	15.5	12.5	5.5	13.7	24.9
Slightly Stable	13.4	13.9	6.4	10.0	19.1
Stable	12.9	14.1	10.7	14.7	12.1
Very Stable	11.7	8.9	15.6	14.3	9.8
Day, Offshore					
Very Unstable	1.0	0.8	3.0	0.1	0.0
Unstable	10.4	7.5	19.9	12.5	1.7
Slightly Unstable	30.8	26.3	42.3	36.0	18.8
Neutral Day	57.7	65.5	34.9	51.3	79.6
Night, Offshore					
Neutral Night	29.0	25.7	14.3	26.1	37.7
Slightly Stable	25.1	28.3	16.7	18.9	29.1
Stable	24.1	28.3	28.0	27.9	18.3
Very Stable	21.8	17.8	41.0	27.1	14.9

Table 5.8
Atlantic City, New Jersey
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.3	0.3	0.6	0.1	0.0
Unstable	3.0	2.6	7.5	1.6	0.1
Slightly Unstable	10.1	9.6	18.1	9.1	3.3
Neutral Day	28.4	34.6	23.7	27.7	27.4
Neutral Night	26.3	24.8	16.0	27.3	37.2
Slightly Stable	15.6	14.5	14.9	15.2	17.8
Stable	11.5	9.2	14.5	12.8	9.2
Very Stable	5.0	4.3	4.6	6.0	4.9
Day, All Directions					
Very Unstable	0.6	0.6	1.2	0.4	0.0
Unstable	7.2	5.5	15.1	4.3	0.5
Slightly Unstable	24.2	20.5	36.3	23.7	10.8
Neutral Day	68.0	73.5	47.4	71.7	88.7
Night, All Directions					
Neutral Night	45.0	46.9	31.9	44.4	53.8
Slightly Stable	26.8	27.5	29.8	24.8	25.7
Stable	19.7	17.4	29.1	20.9	13.4
Very Stable	8.5	8.2	9.2	9.8	7.1

Table 5.8 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.1	0.0	0.4	0.0	0.0
Unstable	4.3	5.3	8.1	2.0	0.0
Slightly Unstable	12.7	12.9	18.5	10.0	5.6
Neutral Day	34.3	38.3	28.4	37.1	35.3
Neutral Night	28.3	25.9	21.6	29.1	43.4
Slightly Stable	9.7	9.1	10.8	9.4	10.0
Stable	9.7	8.4	11.2	11.7	4.4
Very Stable	0.8	0.2	1.2	0.6	1.4
Day, Onshore					
Very Unstable	0.3	0.0	0.7	0.0	0.0
Unstable	8.5	9.3	14.6	4.1	0.0
Slightly Unstable	24.7	22.8	33.6	20.4	13.8
Neutral Day	66.6	67.9	51.0	75.5	86.2
Night, Onshore					
Neutral Night	58.3	59.2	48.4	57.2	73.4
Slightly Stable	20.1	20.9	24.3	18.5	17.1
Stable	19.9	19.4	24.8	23.1	7.2
Very Stable	1.7	0.5	2.6	1.2	2.4

Table 5.8 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.1	0.0	0.3	0.0	0.0
Unstable	2.2	1.9	4.7	1.5	0.0
Slightly Unstable	7.0	4.8	12.7	7.4	1.0
Neutral Day	28.2	33.8	24.1	30.3	25.7
Neutral Night	31.1	34.2	18.8	31.3	44.7
Slightly Stable	17.2	15.0	21.0	14.2	17.2
Stable	12.8	9.0	17.3	14.0	9.5
Very Stable	1.3	1.2	1.2	1.2	1.8
Day, Alongshore					
Very Unstable	0.2	0.0	0.6	0.0	0.0
Unstable	6.0	4.7	11.4	4.0	0.0
Slightly Unstable	18.8	12.5	30.3	18.6	3.8
Neutral Day	75.0	82.8	57.7	77.3	96.2
Night, Alongshore					
Neutral Night	49.8	57.9	32.2	51.5	61.0
Slightly Stable	27.4	24.8	36.1	23.3	23.6
Stable	20.6	15.3	29.6	23.2	13.0
Very Stable	2.1	2.0	2.0	2.0	2.4

Table 5.8 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.2	0.0	1.2	0.0	0.0
Unstable	2.0	1.0	8.2	1.2	0.0
Slightly Unstable	10.4	10.4	24.2	9.0	3.5
Neutral Day	28.9	37.0	22.3	23.8	28.7
Neutral Night	26.0	22.3	9.8	29.4	36.2
Slightly Stable	17.5	17.2	14.4	18.2	19.2
Stable	13.3	10.5	18.0	15.9	11.3
Very Stable	1.7	1.6	1.9	2.5	1.1
Day, Offshore					
Very Unstable	0.6	0.0	2.2	0.0	0.0
Unstable	4.9	2.0	14.6	3.5	0.0
Slightly Unstable	25.1	21.4	43.3	26.0	10.7
Neutral Day	69.4	76.6	39.9	70.5	89.3
Night, Offshore					
Neutral Night	44.5	43.2	22.4	44.6	53.4
Slightly Stable	30.0	33.3	32.6	27.5	28.4
Stable	22.7	20.4	40.8	24.0	16.6
Very Stable	2.8	3.1	4.2	3.8	1.6

Table 5.9
Wilmington, Delaware
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.4	0.1	1.4	0.1	0.0
Unstable	5.0	3.6	11.9	4.3	0.2
Slightly Unstable	10.3	9.6	18.0	9.1	4.5
Neutral Day	25.9	33.4	18.7	24.9	26.7
Neutral Night	22.5	23.0	11.7	23.4	32.0
Slightly Stable	15.2	13.9	13.2	15.3	18.3
Stable	15.7	12.8	18.9	16.6	14.7
Very Stable	4.9	3.6	6.2	6.3	3.6
Day, All Directions					
Very Unstable	1.0	0.3	2.9	0.4	0.0
Unstable	12.1	7.7	23.8	11.3	0.7
Slightly Unstable	24.8	20.5	36.0	23.6	14.4
Neutral Day	62.2	71.5	37.4	64.8	85.0
Night, All Directions					
Neutral Night	38.5	43.1	23.4	38.1	46.7
Slightly Stable	26.1	26.1	26.5	24.9	26.7
Stable	27.0	24.0	37.8	26.9	21.4
Very Stable	8.4	6.8	12.4	10.2	5.3

Table 5.9 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.2	0.0	0.7	0.0	0.0
Unstable	5.0	4.6	10.6	3.9	0.3
Slightly Unstable	8.4	9.5	11.3	8.3	3.6
Neutral Day	29.4	33.2	25.0	29.9	29.8
Neutral Night	30.2	30.5	23.1	30.6	37.7
Slightly Stable	13.9	10.9	16.1	13.5	15.4
Stable	10.6	8.5	11.3	11.4	11.3
Very Stable	2.3	2.8	1.9	2.5	1.8
Day, Onshore					
Very Unstable	0.4	0.0	1.4	0.0	0.0
Unstable	11.7	9.7	22.1	9.4	0.9
Slightly Unstable	19.6	20.0	23.9	19.8	10.8
Neutral Day	68.3	70.3	52.5	70.8	88.3
Night, Onshore					
Neutral Night	53.0	57.8	43.9	52.5	56.9
Slightly Stable	24.4	20.7	30.9	23.5	23.3
Stable	18.6	16.1	21.5	19.7	17.1
Very Stable	4.0	5.4	3.7	4.3	2.6

Table 5.9 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.7	0.0	2.5	0.0	0.0
Unstable	5.1	4.1	9.7	4.7	0.0
Slightly Unstable	10.4	9.4	16.2	8.4	5.1
Neutral Day	29.1	35.3	26.2	30.8	25.5
Neutral Night	21.9	26.3	11.2	21.8	31.2
Slightly Stable	13.4	8.9	11.8	16.3	16.7
Stable	16.3	14.2	17.6	14.1	20.0
Very Stable	3.1	1.9	4.9	3.8	1.5
Day, Alongshore					
Very Unstable	1.5	0.0	4.5	0.0	0.0
Unstable	11.1	8.4	17.8	10.8	0.0
Slightly Unstable	23.0	19.3	29.8	19.4	15.8
Neutral Day	64.3	72.2	47.9	69.8	84.2
Night, Alongshore					
Neutral Night	39.8	51.4	24.1	38.4	45.1
Slightly Stable	24.5	17.3	26.0	29.1	24.1
Stable	29.9	27.7	39.1	25.5	28.5
Very Stable	5.8	3.6	10.9	7.0	2.3

Table 5.9 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.2	0.1	0.9	0.0	0.0
Unstable	4.7	2.6	13.5	4.1	0.1
Slightly Unstable	11.3	9.9	24.2	8.8	4.1
Neutral Day	25.3	35.0	13.7	27.2	27.4
Neutral Night	20.1	19.3	5.0	20.9	31.9
Slightly Stable	15.5	16.2	11.6	14.2	18.8
Stable	20.3	15.6	27.7	25.1	16.0
Very Stable	2.6	1.4	3.3	4.7	1.7
Day, Offshore					
Very Unstable	0.6	0.2	1.7	0.0	0.0
Unstable	11.3	5.4	25.9	11.4	0.4
Slightly Unstable	27.2	20.7	46.2	24.7	13.0
Neutral Day	60.9	73.6	26.2	63.8	86.6
Night, Offshore					
Neutral Night	34.3	36.7	10.6	32.2	46.6
Slightly Stable	26.5	30.8	24.2	21.9	27.5
Stable	34.8	29.8	58.2	38.7	23.5
Very Stable	4.4	2.7	7.0	7.2	2.5

Table 5.10
 Wallops Island, Virginia
 Percent of Hours in Each Stability Class
 by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.5	0.0	2.1	0.1	0.0
Unstable	7.9	6.3	18.7	5.8	1.5
Slightly Unstable	17.2	15.5	28.3	18.7	7.7
Neutral Day	35.3	40.2	30.1	35.8	35.2
Neutral Night	17.5	17.9	6.1	18.0	26.5
Slightly Stable	10.9	10.6	6.7	9.3	16.3
Stable	7.5	7.0	6.3	7.8	8.5
Very Stable	3.3	2.6	1.7	4.5	4.2
Day, All Directions					
Very Unstable	0.8	0.0	2.6	0.2	0.0
Unstable	12.9	10.3	23.6	9.6	3.5
Slightly Unstable	28.3	24.6	35.8	31.0	17.6
Neutral Day	57.9	65.1	38.1	59.2	79.0
Night, All Directions					
Neutral Night	44.5	47.5	29.2	45.4	47.5
Slightly Stable	27.8	27.4	32.3	23.5	29.6
Stable	19.3	19.0	30.2	19.7	15.3
Very Stable	8.4	6.1	8.3	11.4	7.6

Table 5.10 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.9	0.0	2.5	0.0	0.0
Unstable	14.0	11.7	21.5	11.0	4.8
Slightly Unstable	24.6	22.7	27.8	27.2	14.6
Neutral Day	31.9	33.1	28.5	32.1	38.7
Neutral Night	12.7	13.7	5.4	16.0	23.1
Slightly Stable	8.8	10.9	7.2	7.2	12.3
Stable	5.6	6.5	5.7	5.1	4.8
Very Stable	1.5	1.4	1.5	1.3	1.6
Day, Onshore					
Very Unstable	1.2	0.0	3.1	0.0	0.0
Unstable	19.7	17.4	26.8	15.6	8.5
Slightly Unstable	34.4	32.9	34.6	38.6	24.7
Neutral Day	44.6	49.8	35.5	45.8	66.8
Night, Onshore					
Neutral Night	44.3	40.1	27.3	53.7	55.6
Slightly Stable	30.8	36.2	36.3	24.5	29.1
Stable	19.9	20.5	29.1	17.0	11.5
Very Stable	5.0	3.2	7.3	4.8	3.8

Table 5.10 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.1	0.0	0.4	0.0	0.0
Unstable	2.5	2.3	7.3	1.1	1.0
Slightly Unstable	10.3	5.2	26.3	10.9	4.0
Neutral Day	36.3	40.0	35.7	41.9	30.3
Neutral Night	25.4	27.3	10.6	21.6	35.7
Slightly Stable	13.5	14.1	10.3	10.9	16.4
Stable	9.4	8.7	8.5	9.4	9.8
Very Stable	2.7	2.4	0.9	4.2	2.8
Day, Alongshore					
Very Unstable	0.2	0.0	0.6	0.0	0.0
Unstable	5.2	4.7	10.4	2.1	3.2
Slightly Unstable	21.1	10.2	37.6	20.3	12.9
Neutral Day	73.5	85.1	51.4	77.6	83.9
Night, Alongshore					
Neutral Night	49.9	52.9	35.0	46.8	55.0
Slightly Stable	26.3	25.9	34.4	23.8	25.7
Stable	18.4	16.4	27.9	20.3	14.7
Very Stable	5.4	4.8	2.7	9.1	4.5

Table 5.10 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.3	0.0	2.1	0.0	0.0
Unstable	4.6	3.8	20.6	2.2	0.4
Slightly Unstable	14.1	14.5	33.7	13.6	6.7
Neutral Day	40.4	47.8	30.6	38.6	39.1
Neutral Night	17.9	16.9	3.8	18.2	23.6
Slightly Stable	10.6	7.5	1.6	10.4	16.9
Stable	8.6	6.8	6.5	10.7	9.8
Very Stable	3.5	2.8	1.1	6.3	3.5
Day, Offshore					
Very Unstable	0.5	0.0	2.5	0.0	0.0
Unstable	7.7	6.1	23.7	4.0	0.9
Slightly Unstable	23.9	22.0	38.7	24.6	14.7
Neutral Day	67.9	71.9	35.1	71.4	84.4
Night, Offshore					
Neutral Night	43.8	50.6	29.0	39.8	43.4
Slightly Stable	26.1	20.8	12.9	22.7	31.7
Stable	21.6	20.9	49.0	23.6	18.6
Very Stable	8.5	7.8	9.1	13.8	6.3

Table 5.11
Norfolk, Virginia
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.2	0.2	0.6	0.0	0.0
Unstable	4.4	4.2	10.1	2.7	0.5
Slightly Unstable	11.4	12.6	17.7	10.2	4.8
Neutral Day	26.2	29.5	21.5	26.4	27.5
Neutral Night	24.8	24.8	13.2	24.1	37.4
Slightly Stable	15.4	15.4	15.9	15.0	15.4
Stable	14.2	11.8	17.1	15.5	12.6
Very Stable	3.3	1.5	3.7	6.1	1.9
Day, All Directions					
Very Unstable	0.5	0.4	1.2	0.0	0.0
Unstable	10.4	9.1	20.2	6.8	1.5
Slightly Unstable	26.9	27.0	35.5	25.9	14.6
Neutral Day	62.2	63.5	43.1	67.3	83.9
Night, All Directions					
Neutral Night	42.9	46.3	26.5	39.7	55.6
Slightly Stable	26.7	28.8	31.8	24.8	22.9
Stable	24.6	22.1	34.2	25.5	18.7
Very Stable	5.7	2.8	7.5	10.1	2.8

Table 5.11 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.4	0.6	0.7	0.0	0.0
Unstable	4.5	3.9	10.4	1.5	0.4
Slightly Unstable	12.4	12.7	17.0	11.7	4.8
Neutral Day	24.0	25.0	20.6	25.3	25.4
Neutral Night	21.1	22.3	13.2	22.9	30.1
Slightly Stable	14.7	16.4	13.4	14.3	15.4
Stable	19.5	17.1	21.3	19.5	20.7
Very Stable	3.4	1.9	3.3	4.9	3.3
Day, Onshore					
Very Unstable	0.9	1.5	1.5	0.0	0.0
Unstable	10.7	9.1	20.9	3.8	1.3
Slightly Unstable	30.0	30.1	34.8	30.2	15.6
Neutral Day	58.4	59.3	42.9	65.9	83.1
Night, Onshore					
Neutral Night	35.8	38.7	25.7	37.1	43.3
Slightly Stable	25.0	28.3	26.2	23.2	22.2
Stable	33.3	29.7	41.6	31.7	29.7
Very Stable	5.9	3.3	6.6	8.0	4.8

Table 5.11 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.0	0.9	0.0	0.0
Unstable	4.4	5.0	8.5	4.3	0.3
Slightly Unstable	10.3	10.9	16.5	9.5	4.7
Neutral Day	26.4	29.3	21.4	29.5	26.6
Neutral Night	26.8	27.7	14.3	22.0	42.0
Slightly Stable	16.1	15.8	20.2	15.9	12.6
Stable	13.3	10.6	16.0	14.6	12.0
Very Stable	2.2	0.6	2.4	4.2	1.8
Day, Alongshore					
Very Unstable	0.6	0.0	1.8	0.0	0.0
Unstable	10.8	11.2	18.1	10.1	1.0
Slightly Unstable	25.0	24.1	34.8	22.5	15.0
Neutral Day	63.6	64.7	45.3	67.5	84.1
Night, Alongshore					
Neutral Night	46.0	50.9	27.0	39.7	61.5
Slightly Stable	27.5	28.8	38.2	27.6	18.4
Stable	22.7	19.2	30.2	25.3	17.5
Very Stable	3.8	1.0	4.5	7.3	2.6

Table 5.11 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	3.7	3.7	10.9	2.4	0.6
Slightly Unstable	11.8	14.6	23.1	9.0	4.8
Neutral Day	30.0	34.2	26.1	26.8	30.0
Neutral Night	27.5	23.7	12.8	32.8	36.2
Slightly Stable	15.3	14.7	12.1	13.8	18.6
Stable	10.0	8.7	13.7	9.6	9.2
Very Stable	1.6	0.4	1.3	5.6	0.6
Day, Offshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	8.2	7.1	18.1	5.8	1.6
Slightly Unstable	25.9	27.7	38.6	23.3	13.5
Neutral Day	65.9	65.2	43.3	70.9	85.0
Night, Offshore					
Neutral Night	50.5	49.8	32.5	52.7	55.9
Slightly Stable	28.0	30.9	30.0	22.3	28.8
Stable	18.5	18.5	34.2	15.8	14.4
Very Stable	3.0	0.8	3.3	9.2	0.9

Table 5.12
Cape Hatteras, North Carolina
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	2.2	2.4	4.6	1.0	0.5
Slightly Unstable	10.5	12.0	17.9	9.5	2.6
Neutral Day	29.8	32.3	27.4	29.3	30.1
Neutral Night	31.1	30.1	23.8	29.5	41.1
Slightly Stable	16.7	14.7	16.4	19.6	16.0
Stable	8.0	6.6	7.9	10.0	7.4
Very Stable	1.8	1.9	1.8	1.1	2.3
Day, All Directions					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	5.1	5.2	9.2	2.6	1.5
Slightly Unstable	24.8	25.6	35.9	23.8	7.9
Neutral Day	70.1	69.2	54.9	73.6	90.6
Night, All Directions					
Neutral Night	54.1	56.5	47.7	49.0	61.5
Slightly Stable	29.0	27.6	32.7	32.5	24.0
Stable	13.9	12.4	15.9	16.7	11.0
Very Stable	3.1	3.6	3.7	1.8	3.4

Table 5.12 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	5.4	5.6	11.1	1.3	1.9
Slightly Unstable	15.0	14.9	18.5	15.3	7.5
Neutral Day	27.2	29.3	23.6	26.5	32.7
Neutral Night	24.2	22.6	19.1	26.1	32.7
Slightly Stable	15.7	14.2	14.1	19.6	13.5
Stable	11.3	12.0	11.8	10.6	10.6
Very Stable	1.3	1.5	1.8	0.7	1.0
Day, Onshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	11.2	11.2	20.3	3.1	4.6
Slightly Unstable	31.6	29.9	34.7	35.7	17.5
Neutral Day	57.2	58.9	45.0	61.2	77.9
Night, Onshore					
Neutral Night	46.0	44.8	40.1	45.9	56.3
Slightly Stable	29.9	28.2	30.3	34.2	23.5
Stable	21.7	23.8	25.6	18.7	18.4
Very Stable	2.4	3.1	4.1	1.2	1.8

Table 5.12 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	1.0	1.3	1.1	1.1	0.6
Slightly Unstable	11.2	13.6	18.8	7.0	1.7
Neutral Day	33.1	33.1	31.3	33.9	34.4
Neutral Night	33.0	31.5	27.6	32.5	43.5
Slightly Stable	16.2	14.8	16.7	18.9	14.1
Stable	5.0	5.0	4.3	6.4	4.9
Very Stable	0.5	0.6	0.2	0.2	0.8
Day, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	2.3	2.7	2.1	2.6	1.6
Slightly Unstable	24.7	28.3	36.6	16.6	4.7
Neutral Day	73.0	69.0	61.3	80.8	93.7
Night, Alongshore					
Neutral Night	60.4	60.4	56.7	55.9	69.0
Slightly Stable	29.7	28.5	34.1	32.7	22.1
Stable	9.1	10.0	8.7	11.1	7.6
Very Stable	0.8	1.2	0.5	0.3	1.3

Table 5.12 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	1.0	1.0	4.6	0.7	0.0
Slightly Unstable	5.8	7.2	13.8	6.0	2.1
Neutral Day	29.1	35.9	25.1	27.6	27.4
Neutral Night	35.5	35.4	22.7	30.1	43.0
Slightly Stable	18.5	15.0	19.7	21.0	18.6
Stable	9.6	4.9	13.1	14.4	0.5
Very Stable	0.5	0.6	0.8	0.2	0.4
Day, Offshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	2.9	2.4	10.8	2.1	0.0
Slightly Unstable	16.1	16.5	31.7	17.2	7.3
Neutral Day	80.9	81.1	57.5	80.8	92.7
Night, Offshore					
Neutral Night	55.4	63.3	40.3	45.7	61.1
Slightly Stable	28.9	26.9	35.1	32.1	26.4
Stable	14.9	8.7	23.1	21.8	12.0
Very Stable	0.8	1.1	1.5	0.3	0.5

Table 5.13
Wilmington, North Carolina
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.5	0.5	1.3	0.3	0.0
Unstable	6.2	6.0	12.9	4.4	1.3
Slightly Unstable	13.4	14.5	17.5	12.9	8.3
Neutral Day	23.5	24.7	18.3	23.1	27.8
Neutral Night	15.4	16.2	8.6	15.6	21.3
Slightly Stable	13.2	14.2	12.8	11.5	14.3
Stable	14.5	13.9	15.7	15.6	13.0
Very Stable	13.3	9.9	12.9	16.6	14.0
Day, All Directions					
Very Unstable	1.3	1.2	2.6	0.8	0.0
Unstable	14.2	13.2	25.8	10.8	3.5
Slightly Unstable	30.7	31.8	35.1	31.6	22.2
Neutral Day	53.9	53.9	36.5	56.7	74.3
Night, All Directions					
Neutral Night	27.3	29.9	17.3	26.3	34.0
Slightly Stable	23.4	26.2	25.5	19.4	22.9
Stable	25.8	25.6	31.4	26.3	20.8
Very Stable	23.6	18.3	25.8	28.0	22.3

Table 5.13 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.6	1.1	1.0	0.0	0.0
Unstable	7.9	7.0	12.5	7.0	2.1
Slightly Unstable	19.0	17.3	21.2	22.6	12.9
Neutral Day	27.8	23.4	24.0	30.1	37.9
Neutral Night	13.9	18.2	8.2	11.8	19.1
Slightly Stable	8.6	8.2	11.0	5.1	9.6
Stable	15.9	18.1	16.7	16.8	11.9
Very Stable	6.3	6.7	6.0	6.6	6.6
Day, Onshore					
Very Unstable	1.1	2.1	1.8	0.0	0.0
Unstable	14.2	14.3	21.3	11.8	4.0
Slightly Unstable	34.4	35.3	36.3	37.9	24.4
Neutral Day	50.3	48.3	40.7	50.3	71.6
Night, Onshore					
Neutral Night	31.2	35.5	19.9	29.2	40.2
Slightly Stable	19.2	15.8	26.4	12.7	20.4
Stable	35.7	35.4	39.4	41.9	25.4
Very Stable	14.0	13.3	14.2	16.2	14.0

Table 5.13 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.3	0.5	0.3	0.0
Unstable	4.2	4.1	8.0	3.1	1.1
Slightly Unstable	9.4	9.5	14.1	7.7	5.9
Neutral Day	25.5	28.1	21.4	24.6	27.8
Neutral Night	20.4	20.7	12.5	19.0	30.0
Slightly Stable	19.5	20.2	20.0	18.7	18.8
Stable	17.6	13.8	20.3	21.8	15.1
Very Stable	3.2	3.3	3.3	4.8	1.3
Day, Alongshore					
Very Unstable	0.6	0.7	1.0	0.8	0.0
Unstable	10.6	9.8	18.2	8.8	3.3
Slightly Unstable	23.9	22.7	31.9	21.6	17.0
Neutral Day	64.9	66.8	48.9	68.8	79.8
Night, Alongshore					
Neutral Night	33.5	35.4	22.4	29.5	46.1
Slightly Stable	32.2	35.1	35.7	29.1	28.9
Stable	29.1	23.7	36.0	33.9	23.0
Very Stable	5.3	5.7	5.9	7.5	2.0

Table 5.13 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.6	0.2	3.1	0.0	0.0
Unstable	7.2	7.7	19.8	4.6	0.7
Slightly Unstable	15.2	18.7	23.0	12.1	9.6
Neutral Day	27.3	28.0	16.9	27.3	33.1
Neutral Night	17.6	14.7	8.6	21.8	23.1
Slightly Stable	13.6	14.8	8.2	13.2	16.1
Stable	16.1	13.7	17.1	17.0	16.6
Very Stable	2.5	2.3	3.2	4.0	0.8
Day, Offshore					
Very Unstable	1.3	0.3	5.0	0.0	0.0
Unstable	14.2	14.2	31.5	10.3	1.5
Slightly Unstable	30.3	34.2	36.6	27.5	21.8
Neutral Day	54.2	51.3	26.9	62.2	76.7
Night, Offshore					
Neutral Night	35.4	32.4	23.3	38.9	40.7
Slightly Stable	27.2	32.5	22.1	23.7	28.3
Stable	32.4	30.1	46.0	30.3	29.5
Very Stable	5.0	5.0	8.5	7.2	1.5

Table 5.14
Charleston, South Carolina
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.5	0.7	1.0	0.1	0.0
Unstable	5.6	6.0	9.9	4.5	2.0
Slightly Unstable	13.5	14.7	18.5	12.1	8.8
Neutral Day	23.3	23.4	20.7	22.3	26.7
Neutral Night	14.8	15.3	10.5	12.4	21.1
Slightly Stable	14.4	16.0	13.5	13.0	15.1
Stable	18.5	16.4	17.6	23.9	16.0
Very Stable	9.5	7.5	8.4	11.7	10.3
Day, All Directions					
Very Unstable	1.1	1.7	2.0	0.2	0.0
Unstable	13.1	13.5	19.7	11.6	5.4
Slightly Unstable	31.5	32.7	37.0	31.0	23.3
Neutral Day	54.2	52.1	41.3	57.2	71.3
Night, All Directions					
Neutral Night	25.9	27.7	21.1	20.4	33.8
Slightly Stable	25.2	28.9	27.0	21.3	24.1
Stable	32.3	29.7	35.2	39.2	25.6
Very Stable	16.6	13.7	16.7	19.1	16.6

Table 5.14 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.4	0.5	0.8	0.0	0.0
Unstable	4.2	4.6	5.7	3.8	1.7
Slightly Unstable	12.5	12.1	15.1	15.7	6.3
Neutral Day	24.3	23.6	21.6	27.6	26.3
Neutral Night	13.6	15.2	11.1	6.9	20.4
Slightly Stable	15.9	17.7	16.6	13.4	14.1
Stable	21.7	19.0	22.2	23.3	23.9
Very Stable	7.4	7.3	6.8	9.3	7.3
Day, Onshore					
Very Unstable	1.0	1.2	1.8	0.0	0.0
Unstable	10.1	11.2	13.1	7.5	4.9
Slightly Unstable	30.2	29.7	34.6	33.3	18.1
Neutral Day	58.7	57.8	50.5	59.3	77.0
Night, Onshore					
Neutral Night	23.2	25.7	19.4	13.0	31.0
Slightly Stable	27.1	29.9	29.0	25.1	21.3
Stable	37.1	32.1	39.4	44.2	36.5
Very Stable	12.6	12.3	12.2	17.8	11.2

Table 5.14 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.3	0.7	0.6	0.0	0.0
Unstable	6.1	5.1	8.8	7.7	2.6
Slightly Unstable	14.8	14.9	21.3	12.9	10.4
Neutral Day	25.3	25.6	21.7	23.4	30.2
Neutral Night	15.4	17.3	10.1	11.9	21.9
Slightly Stable	15.6	17.3	14.9	15.5	14.9
Stable	17.7	16.1	17.6	23.2	14.5
Very Stable	4.7	3.0	5.0	5.5	5.4
Day, Alongshore					
Very Unstable	0.6	1.4	1.1	0.0	0.0
Unstable	13.1	10.9	17.0	18.1	6.1
Slightly Unstable	31.9	32.8	40.7	28.7	24.0
Neutral Day	54.4	54.9	41.1	53.2	69.9
Night, Alongshore					
Neutral Night	28.7	32.6	21.2	21.7	38.7
Slightly Stable	29.3	32.6	31.7	27.6	26.2
Stable	33.1	29.3	36.5	41.5	25.6
Very Stable	8.9	5.5	10.6	9.2	9.5

Table 5.14 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.7	1.1	1.8	0.2	0.0
Unstable	6.8	8.6	16.1	3.5	1.8
Slightly Unstable	14.8	17.8	23.5	10.7	10.3
Neutral Day	23.6	23.9	20.7	20.5	29.2
Neutral Night	17.2	15.3	11.0	16.7	24.4
Slightly Stable	12.4	13.8	7.9	11.4	15.4
Stable	17.9	15.1	12.8	27.0	13.6
Very Stable	6.7	4.3	6.3	10.0	5.3
Day, Offshore					
Very Unstable	1.4	2.1	2.9	0.5	0.0
Unstable	14.7	16.6	26.1	10.2	4.4
Slightly Unstable	32.4	34.8	37.7	30.9	25.0
Neutral Day	51.4	46.4	33.3	58.4	70.6
Night, Offshore					
Neutral Night	31.8	31.6	29.0	25.7	41.6
Slightly Stable	22.9	28.4	20.8	17.7	26.2
Stable	33.0	31.1	33.8	41.3	23.2
Very Stable	12.3	8.8	16.4	15.2	9.0

Table 5.15
Brunswick, Georgia
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	1.7	2.4	3.7	0.6	0.2
Unstable	11.9	13.5	19.4	8.0	6.3
Slightly Unstable	14.6	14.5	16.3	13.6	14.0
Neutral Day	14.1	13.7	10.5	15.2	17.0
Neutral Night	7.5	7.7	4.8	5.6	11.7
Slightly Stable	10.8	10.7	9.3	10.2	13.1
Stable	10.6	12.2	9.0	12.2	9.0
Very Stable	28.8	25.3	26.9	34.5	28.7
Day, All Directions					
Very Unstable	4.1	5.4	7.5	1.6	0.6
Unstable	28.0	30.7	38.9	21.4	16.7
Slightly Unstable	34.5	32.9	32.6	36.3	37.5
Neutral Day	33.3	31.0	21.1	40.7	45.3
Night, All Directions					
Neutral Night	12.9	13.8	9.6	9.0	18.8
Slightly Stable	18.8	19.2	18.6	16.4	21.0
Stable	18.3	21.7	17.9	19.5	14.3
Very Stable	50.0	45.3	53.8	55.2	45.9

Table 5.15 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	1.7	2.8	3.2	0.3	0.0
Unstable	13.8	15.5	21.3	8.4	8.6
Slightly Unstable	22.3	20.7	22.3	22.7	24.0
Neutral Day	20.2	16.2	15.1	28.7	21.9
Neutral Night	7.8	6.5	4.7	5.0	17.9
Slightly Stable	9.5	10.1	10.4	8.2	9.0
Stable	11.3	12.9	11.9	12.5	6.3
Very Stable	13.5	15.3	11.1	14.3	12.3
Day, Onshore					
Very Unstable	3.0	5.0	5.2	0.4	0.0
Unstable	23.8	28.1	34.1	14.1	15.2
Slightly Unstable	38.4	37.5	36.3	37.8	44.7
Neutral Day	34.8	29.4	24.4	47.7	40.1
Night, Onshore					
Neutral Night	18.5	14.5	12.5	12.5	40.2
Slightly Stable	22.7	22.6	26.8	20.6	19.3
Stable	26.8	28.7	30.9	31.2	13.8
Very Stable	32.0	34.1	29.9	35.7	26.7

Table 5.15 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.8	3.1	4.0	0.4	0.0
Unstable	10.9	14.6	12.9	10.3	7.3
Slightly Unstable	12.0	9.9	12.0	14.2	11.5
Neutral Day	15.9	12.6	11.9	16.3	21.7
Neutral Night	13.2	16.9	5.7	13.4	17.0
Slightly Stable	12.6	14.6	12.5	11.1	11.4
Stable	17.4	19.3	16.6	22.1	11.1
Very Stable	16.2	8.9	24.4	12.2	19.9
Day, Alongshore					
Very Unstable	4.6	7.4	9.8	1.1	0.0
Unstable	26.7	36.2	31.6	25.0	18.1
Slightly Unstable	29.5	25.3	29.4	34.5	28.3
Neutral Day	39.2	31.1	29.2	39.5	53.6
Night, Alongshore					
Neutral Night	22.3	28.4	9.6	22.8	28.6
Slightly Stable	21.2	24.1	21.1	18.9	19.1
Stable	29.1	32.5	28.0	37.7	18.8
Very Stable	27.3	15.0	41.3	20.7	33.5

Table 5.15 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	1.6	1.7	4.3	0.5	0.0
Unstable	15.2	13.8	28.4	14.0	6.8
Slightly Unstable	16.8	16.6	18.7	15.6	16.7
Neutral Day	17.5	19.0	12.4	14.7	21.7
Neutral Night	8.0	8.3	6.0	5.4	11.5
Slightly Stable	11.0	10.5	6.6	11.1	14.4
Stable	13.0	14.3	8.7	15.3	12.9
Very Stable	17.1	15.9	14.9	23.3	15.9
Day, Offshore					
Very Unstable	3.1	3.4	6.8	1.2	0.0
Unstable	29.7	27.0	44.7	30.9	15.2
Slightly Unstable	33.0	32.3	29.3	35.8	36.7
Neutral Day	34.2	37.3	19.1	32.2	48.1
Night, Offshore					
Neutral Night	16.3	17.0	16.8	9.8	21.2
Slightly Stable	22.5	21.3	18.8	20.2	26.4
Stable	26.5	29.3	24.3	27.9	23.4
Very Stable	34.7	32.4	40.1	42.1	29.0

Table 5.16
Cape Kennedy, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.4	0.5	0.7	0.5	0.0
Unstable	10.6	10.1	18.4	9.9	3.9
Slightly Unstable	17.3	18.6	21.2	16.6	12.7
Neutral Day	14.0	14.9	9.6	10.9	20.9
Neutral Night	10.3	10.8	4.6	10.7	15.4
Slightly Stable	12.8	13.6	10.5	13.1	14.0
Stable	17.8	18.6	16.9	16.8	19.0
Very Stable	16.6	12.8	18.1	21.4	14.1
Day, All Directions					
Very Unstable	1.1	1.2	1.5	1.3	0.0
Unstable	25.1	22.9	36.9	26.1	10.4
Slightly Unstable	40.8	42.2	42.4	43.8	33.9
Neutral Day	33.1	33.7	19.2	28.8	55.7
Night, All Directions					
Neutral Night	17.9	19.4	9.1	17.2	24.7
Slightly Stable	22.2	24.4	20.9	21.2	22.4
Stable	31.0	33.4	33.7	27.1	30.4
Very Stable	28.8	22.9	36.1	34.5	22.5

Table 5.16 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.6	1.0	0.7	0.6	0.0
Unstable	15.1	14.7	24.2	12.5	7.5
Slightly Unstable	22.9	25.1	28.0	21.2	16.2
Neutral Day	13.0	12.1	9.8	11.6	21.7
Neutral Night	8.5	5.7	1.6	11.0	16.9
Slightly Stable	10.7	13.3	6.2	12.6	9.8
Stable	16.3	16.1	18.1	15.1	16.1
Very Stable	12.9	12.0	11.4	15.4	11.8
Day, Onshore					
Very Unstable	1.2	1.8	1.2	1.4	0.0
Unstable	29.3	27.9	38.5	27.2	16.6
Slightly Unstable	44.4	47.3	44.7	46.2	35.6
Neutral Day	25.1	23.0	15.6	25.1	47.8
Night, Onshore					
Neutral Night	17.5	11.8	4.2	20.4	31.0
Slightly Stable	22.2	28.1	16.1	23.4	17.9
Stable	33.7	34.4	48.1	27.9	29.3
Very Stable	26.6	25.7	31.6	28.3	21.7

Table 5.16 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.3	0.4	0.8	0.0	0.0
Unstable	6.6	7.0	13.5	7.5	1.1
Slightly Unstable	15.0	15.6	17.3	13.5	13.5
Neutral Day	18.1	17.5	11.4	14.2	25.9
Neutral Night	13.6	14.5	8.5	13.1	16.8
Slightly Stable	14.8	15.3	14.2	13.4	15.5
Stable	18.5	19.8	18.2	16.7	18.7
Very Stable	13.1	9.9	16.1	21.6	8.6
Day, Alongshore					
Very Unstable	0.7	1.1	2.0	0.0	0.0
Unstable	16.6	17.3	31.4	21.3	2.8
Slightly Unstable	37.4	38.5	40.2	38.3	33.7
Neutral Day	45.3	43.1	26.4	40.4	63.6
Night, Alongshore					
Neutral Night	22.7	24.4	14.8	20.2	28.4
Slightly Stable	24.6	25.7	24.9	20.7	25.8
Stable	30.8	33.2	32.1	25.8	31.4
Very Stable	21.9	16.6	28.2	33.3	14.4

Table 5.16 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.1	0.2	0.2	0.0	0.0
Unstable	8.8	7.0	15.1	9.2	4.4
Slightly Unstable	13.7	13.8	17.9	12.6	10.4
Neutral Day	14.0	17.4	9.8	8.4	17.7
Neutral Night	11.1	14.8	6.1	8.9	14.4
Slightly Stable	13.5	11.6	13.9	11.3	15.4
Stable	22.8	23.5	19.4	26.5	23.9
Very Stable	15.9	11.6	17.3	23.2	13.8
Day, Offshore					
Very Unstable	0.3	0.5	0.6	0.0	0.0
Unstable	23.9	18.4	35.3	30.3	13.4
Slightly Unstable	37.5	36.0	42.0	41.7	32.1
Neutral Day	38.2	45.1	22.1	27.9	54.5
Night, Offshore					
Neutral Night	17.6	24.0	10.7	12.7	21.3
Slightly Stable	21.2	18.9	25.0	16.2	22.8
Stable	36.0	38.2	33.8	37.9	35.4
Very Stable	25.1	18.9	30.0	33.2	20.5

Table 5.17
Orlando, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.8	0.8	1.4	0.8	0.1
Unstable	6.5	7.8	10.5	4.7	2.9
Slightly Unstable	13.1	13.5	17.8	10.4	10.7
Neutral Day	21.7	21.7	19.9	21.6	23.8
Neutral Night	13.0	15.8	7.5	9.6	19.0
Slightly Stable	15.5	16.0	12.5	16.8	16.7
Stable	20.2	16.6	21.2	26.2	16.9
Very Stable	9.2	7.6	9.2	9.9	9.9
Day, All Directions					
Very Unstable	1.9	1.9	2.9	2.2	0.2
Unstable	15.4	17.8	21.1	12.6	7.8
Slightly Unstable	31.1	30.8	35.9	27.7	28.5
Neutral Day	51.6	49.5	40.1	57.5	63.5
Night, All Directions					
Neutral Night	22.4	28.2	14.8	15.4	30.4
Slightly Stable	26.8	28.6	24.8	26.9	26.7
Stable	35.0	29.7	42.0	41.9	27.0
Very Stable	15.8	13.6	18.3	15.8	15.9

Table 5.17 ((continued))

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.7	0.7	1.2	0.7	0.0
Unstable	5.5	8.4	7.6	3.6	3.5
Slightly Unstable	12.6	15.0	13.7	10.5	12.7
Neutral Day	25.2	21.9	27.1	26.7	24.7
Neutral Night	12.0	15.6	8.8	7.1	18.6
Slightly Stable	15.8	17.7	12.3	16.3	16.7
Stable	25.5	18.5	25.8	32.6	21.0
Very Stable	2.7	2.3	3.4	2.6	2.8
Day, Onshore					
Very Unstable	1.5	1.4	2.4	1.7	0.0
Unstable	12.4	18.2	15.4	8.7	8.5
Slightly Unstable	28.8	32.6	28.0	25.3	31.2
Neutral Day	57.3	47.8	54.1	64.3	60.3
Night, Onshore					
Neutral Night	21.4	28.8	17.6	12.1	31.5
Slightly Stable	28.3	32.8	24.5	27.8	28.3
Stable	45.6	34.2	51.0	55.7	35.4
Very Stable	4.7	4.2	6.9	4.4	4.9

Table 5.17 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.8	0.6	2.5	0.4	0.0
Unstable	6.9	6.1	12.7	6.3	3.0
Slightly Unstable	12.3	13.9	15.9	11.9	8.0
Neutral Day	19.2	22.0	17.4	15.6	21.2
Neutral Night	16.0	14.6	6.4	17.2	24.2
Slightly Stable	18.7	18.2	17.3	20.5	19.1
Stable	22.8	21.8	24.9	25.3	20.3
Very Stable	3.2	2.8	3.0	2.7	4.2
Day, Alongshore					
Very Unstable	2.1	1.4	5.1	1.1	0.0
Unstable	17.7	14.4	26.4	18.5	9.4
Slightly Unstable	31.4	32.6	32.6	34.8	24.8
Neutral Day	48.8	51.6	35.9	45.5	65.8
Night, Alongshore					
Neutral Night	26.3	25.4	12.5	26.1	35.6
Slightly Stable	30.9	31.8	33.3	31.2	28.2
Stable	37.5	37.9	48.2	38.5	30.1
Very Stable	5.4	4.9	6.0	4.1	6.1

Table 5.17 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.6	1.0	0.6	0.8	0.0
Unstable	8.1	9.3	11.9	8.1	2.5
Slightly Unstable	16.2	13.1	23.8	13.0	13.5
Neutral Day	26.1	25.9	20.3	26.8	32.9
Neutral Night	15.8	19.7	9.0	10.8	21.3
Slightly Stable	14.0	14.6	12.9	14.8	14.3
Stable	17.4	15.1	19.8	23.0	14.2
Very Stable	1.7	1.2	1.8	2.8	1.2
Day, Offshore					
Very Unstable	1.1	2.0	1.0	1.5	0.0
Unstable	15.9	18.8	21.0	16.7	5.1
Slightly Unstable	31.8	26.6	42.1	26.8	27.7
Neutral Day	51.2	52.6	35.8	55.0	67.2
Night, Offshore					
Neutral Night	32.2	39.0	20.7	21.0	41.8
Slightly Stable	28.7	28.8	29.6	28.7	28.1
Stable	35.7	29.9	45.6	44.9	27.8
Very Stable	3.4	2.3	4.1	5.5	2.3

Table 5.18
Miami, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.1	0.1	0.2	0.1	0.0
Unstable	4.9	3.5	10.3	3.8	2.0
Slightly Unstable	13.9	13.7	21.8	11.1	8.7
Neutral Day	23.5	26.9	17.7	22.7	26.8
Neutral Night	15.0	17.3	8.1	14.6	20.1
Slightly Stable	17.0	18.6	11.9	20.7	16.9
Stable	21.6	17.0	24.9	23.6	21.0
Very Stable	4.0	3.0	5.1	3.6	4.5
Day, All Directions					
Very Unstable	0.2	0.2	0.4	0.2	0.0
Unstable	11.6	7.8	20.5	10.0	5.4
Slightly Unstable	32.7	31.1	43.6	29.4	23.1
Neutral Day	55.5	60.9	35.5	60.4	71.5
Night, All Directions					
Neutral Night	26.0	30.9	16.2	23.3	32.1
Slightly Stable	29.5	33.3	23.8	33.1	27.0
Stable	37.5	30.4	49.9	37.8	33.7
Very Stable	7.0	5.4	10.2	5.7	7.2

Table 5.18 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.0	0.0	0.1	0.0	0.0
Unstable	4.3	2.8	9.6	2.8	1.2
Slightly Unstable	15.6	15.3	25.3	11.8	8.9
Neutral Day	27.2	29.2	19.7	28.1	32.8
Neutral Night	15.9	18.4	7.9	16.8	21.1
Slightly Stable	17.9	19.2	14.3	21.8	16.2
Stable	17.3	14.1	20.9	16.8	17.1
Very Stable	1.9	1.1	2.2	1.9	2.6
Day, Onshore					
Very Unstable	0.1	0.0	0.2	0.0	0.0
Unstable	9.1	5.7	17.6	6.5	2.9
Slightly Unstable	33.1	32.2	46.1	27.6	20.5
Neutral Day	57.8	62.1	36.1	65.9	76.6
Night, Unshore					
Neutral Night	30.0	34.7	17.4	29.4	37.0
Slightly Stable	33.7	36.3	31.4	38.0	28.5
Stable	32.7	26.8	46.3	29.4	29.8
Very Stable	3.5	2.2	4.9	3.3	4.6

Table 5.18 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.0	0.0	0.7	0.0
Unstable	7.8	7.7	8.5	7.9	7.7
Slightly Unstable	11.7	11.9	13.2	11.4	9.4
Neutral Day	22.4	24.0	18.6	24.2	23.4
Neutral Night	13.1	13.5	10.1	11.3	18.6
Slightly Stable	14.3	17.8	7.1	13.7	17.9
Stable	25.6	20.2	33.8	24.9	22.9
Very Stable	4.8	4.9	8.6	5.9	0.0
Day, Alongshore					
Very Unstable	0.5	0.0	0.0	1.7	0.0
Unstable	18.8	17.8	21.1	18.2	19.2
Slightly Unstable	27.8	27.4	33.3	25.7	24.6
Neutral Day	52.9	54.8	45.6	54.3	56.1
Night, Alongshore					
Neutral Night	22.9	23.9	17.3	20.5	32.1
Slightly Stable	24.7	31.9	12.0	24.9	29.8
Stable	44.1	35.8	56.6	44.4	38.1
Very Stable	8.3	8.4	14.2	10.3	0.0

Table 5.18 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.2	0.4	0.5	0.0	0.0
Unstable	5.1	4.3	12.7	4.3	1.3
Slightly Unstable	11.5	11.0	17.4	9.7	8.5
Neutral Day	16.7	22.7	12.4	12.1	20.0
Neutral Night	13.6	14.8	7.2	11.6	17.7
Slightly Stable	16.2	17.0	7.5	20.5	18.5
Stable	28.9	23.3	31.6	35.5	25.8
Very Stable	7.9	6.4	10.5	6.3	8.2
Day, Offshore					
Very Unstable	0.5	0.9	1.2	0.0	0.0
Unstable	15.1	11.1	29.3	16.5	4.2
Slightly Unstable	34.5	29.1	40.8	37.3	28.4
Neutral Day	49.9	58.9	28.7	46.3	67.4
Night, Offshore					
Neutral Night	20.5	24.2	12.9	15.7	25.5
Slightly Stable	24.3	27.6	13.3	27.7	26.2
Stable	43.4	37.9	55.6	48.1	36.6
Very Stable	11.8	10.3	18.2	8.6	11.7

Table 5.19
Fort Myers, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.7	0.6	1.7	0.4	0.1
Unstable	6.6	5.4	12.2	5.7	3.0
Slightly Unstable	15.1	17.2	18.2	13.0	11.9
Neutral Day	19.3	20.2	16.2	18.3	22.5
Neutral Night	8.9	10.0	5.4	6.8	13.5
Slightly Stable	14.4	18.1	9.2	14.4	15.8
Stable	24.1	19.7	25.2	28.2	23.5
Very Stable	10.9	8.9	11.8	13.2	9.6
Day, All Directions					
Very Unstable	1.7	1.4	3.5	1.1	0.2
Unstable	15.8	12.4	25.3	15.2	8.0
Slightly Unstable	36.2	39.7	37.6	34.8	31.9
Neutral Day	46.3	46.6	33.6	48.9	60.0
Night, All Directions					
Neutral Night	15.3	17.6	10.4	10.9	21.7
Slightly Stable	24.6	31.9	17.9	23.0	25.3
Stable	41.4	34.8	48.8	45.1	37.7
Very Stable	18.7	15.7	22.9	21.1	15.3

Table 5.19 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.6	0.2	1.1	1.6	0.0
Unstable	8.6	6.7	14.1	10.5	4.7
Slightly Unstable	22.4	21.7	26.5	26.8	15.4
Neutral Day	28.9	26.7	27.1	28.3	35.0
Neutral Night	8.7	11.6	4.7	4.5	12.3
Slightly Stable	14.6	20.4	12.3	7.4	12.3
Stable	15.0	12.5	13.1	18.9	18.3
Very Stable	1.2	0.3	1.1	2.1	2.0
Day, Onshore					
Very Unstable	0.9	0.3	1.6	2.4	0.0
Unstable	14.3	12.2	20.3	15.5	8.6
Slightly Unstable	37.2	39.3	38.9	39.8	27.8
Neutral Day	47.6	48.1	39.1	42.3	63.6
Night, Onshore					
Neutral Night	22.2	25.7	15.4	13.4	27.7
Slightly Stable	36.9	45.5	39.2	22.5	27.3
Stable	37.8	28.0	42.0	58.0	40.8
Very Stable	3.1	0.8	3.3	6.2	4.2

Table 5.19 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.9	0.8	2.8	0.0	0.0
Unstable	6.7	5.4	10.8	7.8	3.2
Slightly Unstable	14.4	13.8	17.3	15.4	11.7
Neutral Day	21.2	17.4	18.0	24.8	26.2
Neutral Night	14.2	15.5	10.0	7.2	20.2
Slightly Stable	14.9	20.4	6.6	14.4	17.3
Stable	24.8	24.5	30.2	26.4	19.6
Very Stable	2.9	2.2	4.4	4.0	1.7
Day, Alongshore					
Very Unstable	2.2	2.1	5.7	0.0	0.0
Unstable	15.4	14.6	22.0	16.3	8.2
Slightly Unstable	33.2	37.1	35.5	31.0	28.2
Neutral Day	49.2	46.3	36.8	52.7	63.6
Night, Alongshore					
Neutral Night	25.0	24.9	19.6	14.1	33.8
Slightly Stable	26.2	32.6	12.9	28.0	29.7
Stable	43.7	39.1	59.0	50.5	33.6
Very Stable	5.1	3.5	8.5	7.5	2.8

Table 5.19 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.6	0.5	1.7	0.2	0.0
Unstable	6.0	3.9	12.3	5.3	2.7
Slightly Unstable	14.6	18.0	17.3	12.2	12.6
Neutral Day	18.2	19.4	13.9	18.5	20.2
Neutral Night	9.0	8.2	5.4	8.0	14.0
Slightly Stable	15.7	18.1	9.9	17.2	16.8
Stable	32.9	29.6	35.9	35.1	31.0
Very Stable	3.1	2.2	3.6	3.5	2.7
Day, Offshore					
Very Unstable	1.4	1.2	3.7	0.6	0.0
Unstable	15.4	9.2	27.2	14.5	7.3
Slightly Unstable	37.0	43.3	38.3	33.7	35.2
Neutral Day	46.2	46.3	30.8	51.2	57.5
Night, Offshore					
Neutral Night	14.8	14.5	9.9	12.6	21.8
Slightly Stable	25.8	31.3	18.0	27.0	25.8
Stable	54.3	50.3	65.5	55.0	48.1
Very Stable	5.1	3.8	6.5	5.5	4.2

Table 5.20
Tampa, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.2	0.1	0.3	0.3	0.0
Unstable	5.3	4.9	9.4	4.4	2.6
Slightly Unstable	15.4	16.0	19.0	13.5	12.9
Neutral Day	20.7	22.1	19.4	19.2	22.1
Neutral Night	13.0	15.0	9.4	10.2	17.3
Slightly Stable	16.6	17.2	14.8	18.5	16.1
Stable	21.4	17.3	20.8	26.8	20.9
Very Stable	7.4	7.5	6.9	7.1	8.2
Day, All Directions					
Very Unstable	0.4	0.2	0.6	0.9	0.0
Unstable	12.9	11.4	19.6	11.7	6.9
Slightly Unstable	36.9	37.1	39.5	36.1	34.3
Neutral Day	49.8	51.4	40.3	51.3	58.9
Night, All Directions					
Neutral Night	22.2	26.4	18.2	16.3	27.7
Slightly Stable	28.5	30.2	28.5	29.6	25.7
Stable	36.7	30.3	40.1	42.9	33.4
Very Stable	12.7	13.1	13.2	11.3	13.1

Table 5.20 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.2	0.0	0.4	0.5	0.0
Unstable	7.9	6.3	11.6	10.2	4.6
Slightly Unstable	23.8	22.1	26.1	27.2	21.1
Neutral Day	27.1	25.2	26.7	30.2	28.7
Neutral Night	12.0	16.0	8.1	6.8	14.5
Slightly Stable	13.2	14.7	16.1	7.3	10.1
Stable	13.1	13.7	10.2	13.1	16.1
Very Stable	2.8	2.1	1.0	4.6	4.8
Day, Onshore					
Very Unstable	0.3	0.0	0.6	0.7	0.0
Unstable	13.5	11.9	17.9	15.1	8.4
Slightly Unstable	40.3	41.3	40.3	39.8	39.1
Neutral Day	45.9	46.8	41.2	44.3	52.5
Night, Onshore					
Neutral Night	29.4	34.5	23.0	21.3	32.0
Slightly Stable	32.1	31.7	45.3	23.2	22.4
Stable	31.8	29.3	29.0	41.5	35.1
Very Stable	6.7	4.6	2.8	13.9	10.6

Table 5.20 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.0	0.0	0.8	0.0
Unstable	4.9	3.6	10.9	5.6	1.1
Slightly Unstable	13.8	13.3	17.9	12.8	11.5
Neutral Day	22.1	25.5	19.2	18.9	23.8
Neutral Night	16.4	16.2	12.4	12.8	21.9
Slightly Stable	17.4	20.0	14.7	16.0	18.2
Stable	22.1	18.6	23.1	29.5	19.5
Very Stable	3.1	2.8	1.8	3.6	4.0
Day, Alongshore					
Very Unstable	0.4	0.0	0.0	2.1	0.0
Unstable	12.0	8.0	22.8	14.7	3.1
Slightly Unstable	33.7	31.5	37.2	33.2	32.0
Neutral Day	53.9	60.5	40.0	50.0	64.9
Night, Alongshore					
Neutral Night	27.7	28.6	24.2	21.0	34.5
Slightly Stable	29.5	34.3	28.1	26.2	28.9
Stable	37.5	32.4	44.4	47.0	30.4
Very Stable	5.3	4.7	3.4	5.8	6.2

Table 5.20 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.0	0.0	0.0	0.1	0.0
Unstable	3.9	5.4	6.3	2.9	2.3
Slightly Unstable	12.0	13.3	14.6	11.4	9.8
Neutral Day	18.1	18.9	16.0	17.8	19.3
Neutral Night	13.2	14.6	10.0	10.8	17.7
Slightly Stable	19.1	19.6	15.3	22.0	18.1
Stable	28.3	23.9	32.1	30.8	25.5
Very Stable	5.3	4.3	5.7	4.2	7.3
Day, Offshore					
Very Unstable	0.1	0.0	0.0	0.3	0.0
Unstable	11.6	14.5	17.1	9.0	7.3
Slightly Unstable	35.2	35.6	39.6	35.2	31.1
Neutral Day	53.1	49.9	43.3	55.5	61.7
Night, Offshore					
Neutral Night	20.0	23.7	15.9	15.9	25.8
Slightly Stable	29.1	31.4	24.3	32.4	26.4
Stable	43.0	38.1	50.9	45.4	37.2
Very Stable	7.9	6.7	8.9	6.2	10.7

Table 5.21
Tallahassee, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	1.2	1.2	2.9	0.6	0.1
Unstable	9.7	8.7	16.8	8.4	4.7
Slightly Unstable	13.2	14.5	13.7	14.2	10.2
Neutral Day	17.1	18.1	13.7	14.3	22.5
Neutral Night	12.3	14.3	5.8	8.9	20.3
Slightly Stable	10.5	10.9	8.2	9.3	13.8
Stable	16.6	15.1	18.2	21.1	11.8
Very Stable	19.4	17.1	20.7	23.2	16.6
Day, All Directions					
Very Unstable	3.0	2.9	6.2	1.6	0.2
Unstable	23.5	20.4	35.6	22.3	12.6
Slightly Unstable	32.0	34.0	29.1	37.9	27.2
Neutral Day	41.6	42.7	29.1	38.1	60.0
Night, All Directions					
Neutral Night	20.9	24.9	10.9	14.2	32.4
Slightly Stable	17.9	19.0	15.4	14.9	22.1
Stable	28.2	26.2	34.4	33.7	18.9
Very Stable	33.0	29.8	39.2	37.1	26.6

Table 5.21 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	1.1	1.3	2.1	0.7	0.0
Unstable	9.5	8.0	13.6	11.9	5.5
Slightly Unstable	14.2	14.4	14.4	17.8	12.7
Neutral Day	24.5	25.9	20.0	23.2	28.3
Neutral Night	17.5	20.6	5.9	10.6	29.8
Slightly Stable	9.9	11.8	10.7	5.3	8.8
Stable	16.2	13.3	22.4	20.8	10.6
Very Stable	7.1	4.7	11.0	9.7	4.4
Day, Onshore					
Very Unstable	2.3	2.5	4.2	1.4	0.0
Unstable	19.3	16.0	27.1	21.5	11.6
Slightly Unstable	28.7	29.1	28.8	33.7	26.7
Neutral Day	49.8	52.3	39.9	43.4	61.7
Night, Onshore					
Neutral Night	34.5	40.7	11.5	22.4	55.2
Slightly Stable	19.5	23.4	21.3	11.2	16.5
Stable	31.9	26.5	45.0	45.3	20.1
Very Stable	14.1	9.4	22.2	21.0	8.3

Table 5.21 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.8	1.1	1.7	0.0	0.0
Unstable	9.7	9.7	15.0	6.5	6.9
Slightly Unstable	15.2	15.9	10.8	18.0	17.0
Neutral Day	16.5	14.0	15.1	15.0	23.9
Neutral Night	12.5	12.1	8.9	12.3	19.5
Slightly Stable	12.3	12.7	11.0	14.6	9.4
Stable	25.6	28.7	29.1	25.2	17.0
Very Stable	7.5	5.9	8.4	8.6	6.3
Day, Alongshore					
Very Unstable	1.8	2.8	4.0	0.0	0.0
Unstable	22.9	24.2	35.1	16.4	14.2
Slightly Unstable	36.1	39.0	25.4	45.5	35.8
Neutral Day	39.2	33.9	35.5	38.1	50.0
Night, Alongshore					
Neutral Night	21.6	20.4	15.5	20.2	37.1
Slightly Stable	21.2	21.6	19.0	24.2	17.8
Stable	44.2	48.2	50.8	41.6	33.0
Very Stable	12.9	9.7	14.7	14.0	12.1

Table 5.21 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	1.3	1.0	4.4	0.7	0.0
Unstable	12.2	11.8	27.3	10.4	4.2
Slightly Unstable	14.6	17.0	16.0	15.9	10.6
Neutral Day	18.8	19.2	12.8	15.2	26.7
Neutral Night	13.1	14.6	6.4	9.6	20.6
Slightly Stable	10.0	8.1	4.7	9.0	15.8
Stable	19.7	18.4	16.0	26.3	15.9
Very Stable	10.3	9.9	12.5	12.9	6.3
Day, Offshore					
Very Unstable	2.7	2.0	7.3	1.5	0.0
Unstable	26.0	24.1	45.0	24.4	10.2
Slightly Unstable	31.2	34.7	26.5	37.8	25.5
Neutral Day	40.1	39.2	21.2	36.3	64.3
Night, Offshore					
Neutral Night	24.6	28.6	15.7	16.6	35.3
Slightly Stable	18.8	15.8	12.0	15.5	26.9
Stable	37.1	36.2	40.2	45.6	27.1
Very Stable	19.5	19.4	32.1	22.3	10.7

Table 5.22
Pensacola, Florida
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.6	0.6	1.5	0.3	0.0
Unstable	6.4	5.6	10.1	6.9	2.8
Slightly Unstable	12.3	12.8	14.7	12.8	9.0
Neutral Day	20.8	21.8	18.5	17.4	25.6
Neutral Night	16.7	20.6	7.4	11.5	27.5
Slightly Stable	15.1	15.3	13.8	16.3	15.1
Stable	19.3	14.9	22.5	26.4	13.3
Very Stable	8.8	8.4	11.6	8.3	6.7
Day, All Directions					
Very Unstable	1.5	1.5	3.3	0.7	0.0
Unstable	15.9	13.7	22.5	18.5	7.6
Slightly Unstable	30.8	31.3	32.8	34.2	24.1
Neutral Day	51.9	53.5	41.3	46.5	68.3
Night, All Directions					
Neutral Night	27.9	34.7	13.4	18.4	44.0
Slightly Stable	25.2	25.8	24.9	26.0	24.1
Stable	32.2	25.2	40.7	42.3	21.2
Very Stable	14.6	14.2	21.0	13.3	10.7

Table 5.22 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.5	0.3	1.5	0.4	0.0
Unstable	7.8	6.0	12.8	9.5	3.6
Slightly Unstable	17.6	15.6	23.0	23.1	12.6
Neutral Day	26.3	27.1	21.1	25.8	31.4
Neutral Night	19.3	24.9	7.3	7.7	33.1
Slightly Stable	13.4	14.8	15.1	13.0	8.2
Stable	13.1	10.6	16.2	18.2	9.2
Very Stable	1.8	0.7	2.9	2.4	1.8
Day, Onshore					
Very Unstable	1.0	0.7	2.5	0.5	0.0
Unstable	15.0	12.2	21.8	17.0	7.5
Slightly Unstable	33.9	32.0	39.3	39.1	26.0
Neutral Day	50.2	55.2	36.4	43.4	66.6
Night, Onshore					
Neutral Night	40.6	48.8	17.3	18.2	63.1
Slightly Stable	28.1	29.0	36.0	29.9	15.6
Stable	27.5	20.8	39.5	45.9	17.8
Very Stable	3.8	1.4	7.1	6.0	3.4

Table 5.22 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.4	0.5	0.0	0.0
Unstable	6.4	7.2	8.2	7.7	1.6
Slightly Unstable	8.5	8.2	10.4	8.7	6.8
Neutral Day	21.6	18.2	23.7	18.9	24.6
Neutral Night	18.8	20.6	10.4	15.8	31.7
Slightly Stable	16.8	16.8	13.4	18.3	18.0
Stable	24.8	25.4	29.0	27.2	16.1
Very Stable	2.9	3.2	4.4	3.3	1.2
Day, Alongshore					
Very Unstable	0.6	1.5	1.1	0.0	0.0
Unstable	17.6	21.6	19.4	22.3	4.9
Slightly Unstable	23.3	24.2	24.4	24.3	20.6
Neutral Day	58.5	52.7	55.1	53.3	74.5
Night, Alongshore					
Neutral Night	29.7	31.1	18.2	24.6	47.3
Slightly Stable	26.4	25.6	23.4	28.1	26.8
Stable	39.2	38.5	50.6	42.0	24.1
Very Stable	4.7	4.8	7.8	5.3	1.8

Table 5.22 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.4	1.1	0.7	0.1	0.0
Unstable	5.6	5.6	13.4	4.6	2.7
Slightly Unstable	10.8	11.9	10.9	11.4	9.4
Neutral Day	20.0	20.7	16.0	15.2	26.4
Neutral Night	16.9	20.2	6.7	12.9	25.6
Slightly Stable	15.3	15.5	11.0	17.0	15.9
Stable	26.7	19.9	36.8	34.2	17.1
Very Stable	4.2	5.0	4.5	4.5	2.8
Day, Offshore					
Very Unstable	1.0	2.9	1.8	0.5	0.0
Unstable	15.2	14.4	32.7	14.7	6.9
Slightly Unstable	29.3	30.3	26.7	36.4	24.5
Neutral Day	54.4	52.4	38.7	48.4	68.6
Night, Offshore					
Neutral Night	26.8	33.1	11.3	18.9	41.7
Slightly Stable	24.2	25.4	18.5	24.8	25.9
Stable	42.3	33.0	62.5	49.7	27.9
Very Stable	6.7	8.5	7.7	6.6	4.6

Table 5.23
Mobile, Alabama
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.6	0.5	1.0	0.5	0.1
Unstable	4.7	3.8	8.2	5.0	1.8
Slightly Unstable	10.7	9.2	14.0	11.9	7.6
Neutral Day	24.1	26.5	22.1	20.1	27.9
Neutral Night	19.5	24.9	7.4	13.1	32.8
Slightly Stable	16.2	17.9	16.8	15.5	14.7
Stable	18.7	14.1	24.9	23.8	11.7
Very Stable	5.5	2.9	5.6	10.1	3.2
Day, All Directions					
Very Unstable	1.4	1.4	2.3	1.5	0.4
Unstable	11.7	9.5	18.0	13.4	4.8
Slightly Unstable	26.7	23.1	30.9	31.7	20.4
Neutral Day	60.2	66.1	48.8	53.5	74.4
Night, All Directions					
Neutral Night	32.6	41.6	13.5	21.0	52.6
Slightly Stable	27.1	29.9	30.7	24.7	23.6
Stable	31.2	23.6	45.5	38.1	18.8
Very Stable	9.1	4.9	10.3	16.2	5.1

Table 5.23 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.3	0.4	0.6	0.0	0.0
Unstable	3.1	3.1	4.8	2.5	1.8
Slightly Unstable	9.7	8.1	12.8	12.2	7.3
Neutral Day	26.6	26.5	23.8	27.5	29.6
Neutral Night	21.9	28.9	7.7	11.7	33.7
Slightly Stable	17.1	17.7	21.4	13.7	13.2
Stable	18.9	13.4	25.7	27.9	13.8
Very Stable	2.3	1.9	3.3	4.4	0.7
Day, Onshore					
Very Unstable	0.8	1.1	1.5	0.0	0.0
Unstable	7.8	8.2	11.3	5.9	4.5
Slightly Unstable	24.4	21.0	30.5	29.0	18.8
Neutral Day	67.0	69.7	56.7	65.1	76.7
Night, Onshore					
Neutral Night	36.3	46.5	13.2	20.3	54.9
Slightly Stable	28.4	28.6	36.8	23.4	21.5
Stable	31.5	21.8	44.3	48.4	22.5
Very Stable	3.8	3.1	5.7	7.9	1.1

Table 5.23 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.1	1.6	1.2	1.2	0.0
Unstable	7.5	6.2	9.6	9.8	1.5
Slightly Unstable	14.2	11.6	16.8	14.1	12.8
Neutral Day	24.6	24.6	25.4	22.3	27.1
Neutral Night	15.4	17.3	5.6	16.5	30.0
Slightly Stable	13.3	16.2	11.5	12.5	14.2
Stable	21.3	20.0	27.2	20.3	12.8
Very Stable	2.6	2.5	2.7	3.4	1.5
Day, Alongshore					
Very Unstable	2.3	3.7	2.4	2.6	0.0
Unstable	15.9	14.0	18.2	21.0	3.4
Slightly Unstable	29.7	26.4	31.6	29.0	31.0
Neutral Day	52.0	55.9	47.8	47.3	65.6
Night, Alongshore					
Neutral Night	29.4	30.9	12.2	31.8	51.4
Slightly Stable	25.3	28.9	24.5	23.9	24.1
Stable	40.3	35.7	57.6	37.8	21.9
Very Stable	5.0	4.5	5.7	6.5	2.6

Table 5.23 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.3	0.0	1.6	0.0	0.0
Unstable	4.9	3.7	13.1	4.4	1.5
Slightly Unstable	10.6	10.2	12.6	12.5	7.1
Neutral Day	24.0	28.4	19.7	19.1	28.6
Neutral Night	21.6	24.6	9.8	14.9	34.9
Slightly Stable	17.5	19.7	15.2	18.4	16.2
Stable	18.5	12.3	23.4	26.8	10.7
Very Stable	2.6	1.1	4.5	3.9	1.0
Day, Offshore					
Very Unstable	0.7	0.0	3.2	0.0	0.0
Unstable	12.4	8.7	27.3	12.3	4.0
Slightly Unstable	26.6	24.1	27.8	34.6	19.0
Neutral Day	60.3	67.2	41.7	53.1	77.0
Night, Offshore					
Neutral Night	35.9	42.6	18.8	23.2	55.5
Slightly Stable	29.1	34.1	28.2	28.6	25.8
Stable	30.7	21.4	44.2	42.0	17.0
Very Stable	4.3	1.9	8.9	6.2	1.6

Table 5.24
 Biloxi, Mississippi
 Percent of Hours in Each Stability Class
 by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, All Directions					
Very Unstable	2.9	2.1	7.4	1.6	0.3
Unstable	12.6	10.8	20.1	13.4	5.6
Slightly Unstable	19.3	20.3	22.9	18.7	14.9
Neutral Day	22.6	27.8	14.6	18.5	30.2
Neutral Night	10.1	11.4	4.6	9.5	15.6
Slightly Stable	9.6	9.8	7.1	9.2	12.5
Stable	9.3	9.2	8.3	10.3	9.2
Very Stable	13.6	8.7	15.2	18.7	11.8
Day, All Directions					
Very Unstable	5.0	3.4	11.3	3.1	0.6
Unstable	22.0	17.8	30.9	25.7	10.9
Slightly Unstable	33.6	33.3	35.2	35.8	29.2
Neutral Day	39.3	45.6	22.5	35.3	59.2
Night, All Directions					
Neutral Night	23.8	29.2	13.0	20.0	31.8
Slightly Stable	22.5	25.2	20.2	19.3	25.4
Stable	21.7	23.5	23.6	21.5	18.8
Very Stable	32.0	22.1	43.2	39.2	24.0

Table 5.24 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	2.3	1.0	5.8	1.3	0.0
Unstable	14.7	11.6	21.5	17.7	5.3
Slightly Unstable	25.9	24.0	30.9	28.6	18.2
Neutral Day	25.0	30.9	16.2	18.2	37.3
Neutral Night	8.9	11.6	4.0	6.5	14.8
Slightly Stable	8.0	8.0	6.5	8.3	10.4
Stable	10.7	10.6	9.9	12.6	10.0
Very Stable	4.5	2.4	3.2	6.8	4.0
Day, Onshore					
Very Unstable	3.4	1.5	7.8	1.9	0.0
Unstable	21.7	17.3	28.9	27.0	8.8
Slightly Unstable	38.1	35.6	41.5	43.5	29.9
Neutral Day	36.7	45.6	21.8	27.6	61.3
Night, Onshore					
Neutral Night	27.8	35.9	15.5	19.0	37.8
Slightly Stable	25.0	24.6	25.4	24.2	26.5
Stable	33.3	32.1	38.8	36.9	25.4
Very Stable	14.0	7.4	20.4	19.9	10.2

Table 5.24 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.8	2.7	4.1	1.2	0.0
Unstable	12.5	9.5	20.8	14.6	7.0
Slightly Unstable	18.2	16.7	22.6	18.5	15.6
Neutral Day	28.2	34.0	18.7	25.1	33.6
Neutral Night	13.6	14.6	7.8	12.4	18.3
Slightly Stable	9.6	10.2	7.3	9.0	11.2
Stable	8.4	7.6	11.1	6.6	8.4
Very Stable	7.8	4.7	7.5	12.5	6.0
Day, Alongshore					
Very Unstable	33.0	4.3	5.9	2.0	0.0
Unstable	20.6	15.0	30.9	24.5	12.3
Slightly Unstable	30.0	26.4	34.5	31.1	27.5
Neutral Day	46.4	54.3	28.7	42.4	60.3
Night, Alongshore					
Neutral Night	34.7	40.0	24.6	30.3	41.1
Slightly Stable	24.3	27.2	20.7	22.1	25.5
Stable	21.4	20.5	32.2	16.3	19.7
Very Stable	19.6	12.2	22.4	31.3	13.6

Table 5.24 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	1.6	1.8	5.8	0.5	0.1
Unstable	11.8	11.1	23.9	11.6	5.1
Slightly Unstable	16.8	17.7	19.4	17.3	14.4
Neutral Day	27.2	30.9	19.1	24.1	33.1
Neutral Night	14.2	13.3	5.9	14.2	19.5
Slightly Stable	10.7	11.3	6.8	11.1	12.1
Stable	10.9	9.6	8.4	12.8	11.6
Very Stable	6.8	4.3	10.6	8.5	4.2
Day, Offshore					
Very Unstable	2.8	3.0	8.6	0.9	0.2
Unstable	20.5	18.0	35.2	21.8	9.6
Slightly Unstable	29.2	28.7	28.5	32.3	27.2
Neutral Day	47.4	50.3	27.8	45.1	63.1
Night, Offshore					
Neutral Night	33.3	34.6	18.8	30.5	41.0
Slightly Stable	25.1	29.2	21.4	23.8	25.6
Stable	25.6	25.0	26.7	27.4	24.6
Very Stable	15.9	11.2	33.2	18.3	8.8

Table 5.25
New Orleans, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.4	0.3	1.0	0.3	0.0
Unstable	6.6	7.0	12.7	4.9	1.6
Slightly Unstable	12.8	10.4	18.2	13.5	9.0
Neutral Day	20.2	19.8	15.4	18.8	26.9
Neutral Night	18.5	24.6	3.6	17.1	29.0
Slightly Stable	15.0	15.9	13.9	15.2	14.8
Stable	14.8	12.4	19.2	15.9	11.5
Very Stable	11.8	9.6	16.0	14.4	7.2
Day, All Directions					
Very Unstable	1.1	0.9	2.2	0.9	0.0
Unstable	16.4	18.7	26.9	13.0	4.2
Slightly Unstable	32.0	27.7	38.5	35.9	24.1
Neutral Day	50.5	52.7	32.5	50.2	71.6
Night, All Directions					
Neutral Night	30.9	39.3	6.8	27.4	46.4
Slightly Stable	24.9	25.4	26.4	24.3	23.7
Stable	24.6	19.9	36.5	25.4	18.4
Very Stable	19.6	15.3	30.3	23.0	11.5

Table 5.25 (continued)

Stability	Annual	Spring	Season		Winter
			Summer.	Fall	
All Hours, Onshore.					
Very Unstable	0.3	0.4	0.6	0.2	0.0
Unstable	4.0	2.6	9.8	3.5	1.0
Slightly Unstable	10.4	7.7	15.5	11.2	8.1
Neutral Day	24.3	24.0	21.7	21.6	29.1
Neutral Night	22.3	31.1	5.1	18.2	30.0
Slightly Stable	19.3	19.7	21.1	20.9	16.1
Stable	16.5	11.8	22.1	21.1	13.2
Very Stable	3.0	2.7	4.0	3.2	2.6
Day, Onshore					
Very Unstable	0.8	1.2	1.2	0.7	0.0
Unstable	10.2	7.4	20.4	9.8	2.6
Slightly Unstable	26.6	22.2	32.5	30.6	21.1
Neutral Day	62.4	69.2	45.9	58.9	76.3
Night, Onshore					
Neutral Night	36.5	47.4	9.7	28.8	48.4
Slightly Stable	31.7	30.2	40.3	32.8	26.2
Stable	27.0	18.1	42.4	33.3	21.3
Very Stable	4.9	4.2	7.6	5.1	4.1

Table 5.25 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.1	0.0	0.4	0.0	0.0
Unstable	6.0	4.5	9.7	6.3	2.1
Slightly Unstable	11.6	9.7	14.2	12.0	9.8
Neutral Day	22.6	22.0	21.8	20.9	23.5
Neutral Night	14.5	18.1	3.3	16.6	23.1
Slightly Stable	13.6	15.1	11.8	14.4	13.9
Stable	22.3	18.9	27.1	21.7	22.3
Very Stable	9.2	11.6	11.8	8.1	5.5
Day, Alongshore					
Very Unstable	0.3	0.0	0.7	0.0	0.0
Unstable	14.9	13.3	21.4	16.3	5.7
Slightly Unstable	28.8	25.0	31.9	30.6	28.9
Neutral Day	56.0	61.7	46.0	53.2	65.5
Night, Alongshore					
Neutral Night	24.3	29.6	6.8	27.2	35.2
Slightly Stable	22.9	22.7	22.5	23.6	21.7
Stable	37.3	30.3	48.3	35.9	34.6
Very Stable	15.5	17.4	22.5	13.3	8.5

Table 5.25 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.6	0.4	1.3	0.8	0.0
Unstable	10.7	15.3	20.8	7.1	2.0
Slightly Unstable	17.9	16.2	25.7	20.8	10.5
Neutral Day	19.6	16.5	11.0	19.9	28.6
Neutral Night	20.0	20.4	3.2	19.5	33.5
Slightly Stable	12.0	11.9	9.5	12.2	13.8
Stable	13.4	13.2	19.9	13.5	8.2
Very Stable	5.9	6.0	8.7	6.3	3.4
Day, Offshore					
Very Unstable	1.2	0.9	2.2	1.6	0.0
Unstable	22.0	31.5	35.3	14.6	4.8
Slightly Unstable	36.7	33.4	43.7	42.7	25.7
Neutral Day	40.1	34.2	18.8	41.1	69.5
Night, Offshore					
Neutral Night	39.1	39.6	7.7	37.8	56.9
Slightly Stable	23.3	23.1	23.0	23.7	23.5
Stable	26.1	25.6	48.3	26.3	13.9
Very Stable	11.5	11.7	21.0	12.2	5.7

Table 5.26
Boothville, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.8	0.6	1.9	0.8	0.0
Unstable	7.0	6.8	13.4	6.0	1.6
Slightly Unstable	12.4	12.7	13.9	12.4	10.4
Neutral Day	19.5	18.2	15.6	18.3	26.2
Neutral Night	18.3	23.2	5.5	16.9	27.6
Slightly Stable	13.8	16.6	11.5	12.3	14.6
Stable	16.5	16.0	20.6	16.5	12.7
Very Stable	11.8	5.8	17.6	16.8	6.9
Day, All Directions					
Very Unstable	2.1	1.6	4.3	2.2	0.0
Unstable	17.6	17.7	29.9	15.9	4.3
Slightly Unstable	31.2	33.2	31.1	33.2	27.2
Neutral Day	49.1	47.5	34.7	48.7	68.5
Night, All Directions					
Neutral Night	30.3	37.6	10.1	27.0	44.7
Slightly Stable	22.8	27.0	20.9	19.7	23.6
Stable	27.3	26.0	37.2	26.4	20.5
Very Stable	19.6	9.5	31.8	26.9	11.2

Table 5.26 (continued)

Stability	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Onshore					
Very Unstable	0.3	0.1	0.9	0.3	0.0
Unstable	5.5	4.2	10.2	5.9	1.3
Slightly Unstable	11.3	11.4	13.0	11.7	8.8
Neutral Day	21.9	19.1	19.1	22.8	28.1
Neutral Night	20.3	28.8	5.3	17.0	28.7
Slightly Stable	17.8	20.4	17.4	15.8	15.6
Stable	20.1	15.2	30.2	22.5	14.1
Very Stable	2.7	0.8	3.8	3.8	3.3
Day, Onshore					
Very Unstable	0.9	0.3	2.1	0.7	0.0
Unstable	14.1	12.2	23.6	15.1	3.5
Slightly Unstable	28.9	32.7	30.0	28.8	23.2
Neutral Day	56.1	54.7	44.3	55.5	73.3
Night, Onshore					
Neutral Night	33.3	44.2	9.2	29.0	46.5
Slightly Stable	29.2	31.3	30.7	26.7	25.4
Stable	33.0	23.3	53.3	37.9	22.7
Very Stable	4.5	1.2	6.8	6.4	5.4

Table 5.26 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.2	0.0	1.0	0.0	0.0
Unstable	4.6	2.5	7.7	7.6	1.9
Slightly Unstable	12.8	11.5	16.1	12.7	11.7
Neutral Day	18.5	18.1	18.8	19.6	18.2
Neutral Night	13.3	15.5	6.9	14.2	18.4
Slightly Stable	15.4	16.2	12.8	15.0	14.7
Stable	28.5	29.6	29.8	26.8	26.4
Very Stable	6.7	6.6	7.0	4.1	8.7
Day, Alongshore					
Very Unstable	0.6	0.0	2.3	0.0	0.0
Unstable	12.7	8.1	17.7	17.9	6.1
Slightly Unstable	35.6	36.9	37.1	33.6	36.6
Neutral Day	51.1	55.0	42.9	48.5	57.2
Night, Alongshore					
Neutral Night	20.7	23.2	12.2	25.2	27.2
Slightly Stable	24.1	24.1	22.7	24.4	21.4
Stable	44.7	43.0	52.7	44.3	38.6
Very Stable	10.5	9.7	12.4	6.2	12.8

Table 5.26 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.7	1.1	2.2	0.3	0.0
Unstable	11.1	14.8	28.6	7.6	1.4
Slightly Unstable	15.4	16.4	18.3	17.7	11.3
Neutral Day	23.2	18.9	17.4	22.2	30.1
Neutral Night	23.4	21.5	7.6	24.4	32.6
Slightly Stable	11.0	11.6	7.6	11.7	12.5
Stable	12.4	10.7	15.2	14.1	10.3
Very Stable	2.8	5.0	3.2	1.9	1.8
Day, Offshore					
Very Unstable	1.5	2.1	3.3	0.7	0.0
Unstable	21.9	28.9	43.1	15.9	3.2
Slightly Unstable	30.6	32.0	27.6	36.4	26.3
Neutral Day	46.0	37.0	26.0	46.9	70.5
Night, Offshore					
Neutral Night	47.2	44.1	22.7	46.1	57.0
Slightly Stable	22.1	23.3	22.6	22.8	21.8
Stable	25.1	22.2	45.0	27.3	18.0
Very Stable	5.6	10.4	9.6	3.8	3.2

Table 5.27
Lake Charles, Louisiana
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.7	0.5	1.7	0.3	0.1
Unstable	6.0	4.6	12.5	5.4	1.7
Slightly Unstable	10.4	9.9	12.8	11.4	7.5
Neutral Day	23.4	24.7	20.2	20.4	28.3
Neutral Night	19.5	27.0	4.3	15.3	31.5
Slightly Stable	12.0	11.5	7.9	15.5	13.1
Stable	20.4	17.2	27.6	23.8	12.8
Very Stable	7.7	4.8	12.8	7.9	5.1
Day, All Directions					
Very Unstable	1.6	1.2	3.6	0.9	0.2
Unstable	14.9	11.5	26.4	14.3	4.4
Slightly Unstable	25.7	24.9	27.2	30.4	20.0
Neutral Day	57.8	62.4	42.8	54.4	75.4
Night, All Directions					
Neutral Night	32.8	44.7	8.2	24.5	50.4
Slightly Stable	20.1	19.0	15.1	24.7	21.0
Stable	34.2	28.4	52.3	38.1	20.4
Very Stable	12.9	7.9	24.4	12.6	8.1

Table 5.27 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.2	0.3	0.6	0.0	0.0
Unstable	5.2	2.9	10.8	6.2	1.4
Slightly Unstable	10.9	10.0	14.0	13.9	6.7
Neutral Day	29.6	29.3	30.5	26.2	31.7
Neutral Night	20.0	30.3	2.5	10.6	32.7
Slightly Stable	10.4	9.7	6.1	14.8	12.3
Stable	20.7	15.5	30.5	26.0	12.9
Very Stable	2.9	2.1	5.0	2.3	2.3
Day, Onshore					
Very Unstable	0.5	0.7	1.1	0.0	0.0
Unstable	11.4	6.9	19.3	13.3	3.6
Slightly Unstable	23.8	23.5	25.1	30.0	16.7 _{6.7}
Neutral Day	64.3	69.0	54.6	56.8	79.7
Night, Onshore					
Neutral Night	37.0	52.5	5.6	19.3	54.3
Slightly Stable	19.3	16.8	13.8	27.1	20.5 ₁
Stable	38.3	27.0	69.2	49.2	21.4
Very Stable	5.4	3.7	11.4	4.4	3.9

Table 5.27 (continued)

Stability	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Alongshore					
Very Unstable	0.7	0.0	1.9	0.7	0.0
Unstable	8.4	9.1	15.0	6.0	3.4
Slightly Unstable	12.8	10.4	15.7	14.0	9.9
Neutral Day	19.4	22.1	15.6	13.4	28.0
Neutral Night	15.7	13.5	6.5	14.5	28.3
Slightly Stable	13.5	15.2	10.4	16.0	13.1
Stable	26.1	25.1	29.6	32.7	16.3
Very Stable	3.4	4.7	5.3	2.7	1.0
Day, Alongshore					
Very Unstable	1.7	0.0	4.0	2.0	0.0
Unstable	20.3	21.9	31.1	17.6	8.3
Slightly Unstable	31.1	25.0	32.9	40.8	23.8
Neutral Day	46.9	53.1	32.0	39.6	68.0
Night, Alongshore					
Neutral Night	26.8	23.1	12.7	22.1	48.2
Slightly Stable	23.0	26.0	20.6	24.3	22.4
Stable	44.4	42.9	56.7	49.5	27.6
Very Stable	5.8	8.1	9.9	4.1	1.8

Table 5.27 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.4	0.5	1.9	0.0	0.0
Unstable	6.1	5.4	18.9	3.7	1.2
Slightly Unstable	9.6	9.8	12.7	9.7	7.0
Neutral Day	21.9	19.7	12.7	23.3	28.2
Neutral Night	25.1	30.9	7.8	21.4	36.5
Slightly Stable	12.7	12.3	9.0	16.0	11.8
Stable	20.5	17.8	32.0	22.4	12.7
Very Stable	3.6	3.6	5.0	3.6	2.6
Day, Offshore					
Very Unstable	1.2	1.4	4.0	0.0	0.0
Unstable	16.1	15.1	41.1	9.9	3.4
Slightly Unstable	25.2	27.7	27.4	26.6	19.0
Neutral Day	57.5	55.8	27.5	63.5	77.6
Night, Offshore					
Neutral Night	40.6	47.9	14.5	33.8	57.1
Slightly Stable	20.6	19.0	16.7	25.2	18.7
Stable	33.1	27.5	59.6	35.2	19.9
Very Stable	5.8	5.6	9.2	5.8	4.2

Table 5.28
Galveston, Texas
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.5	0.3	1.4	0.3	0.0
Unstable	7.5	4.9	16.8	6.9	1.9
Slightly Unstable	18.0	16.4	28.4	19.8	8.5
Neutral Day	31.8	35.0	23.9	32.4	36.3
Neutral Night	21.0	26.2	9.4	16.5	29.7
Slightly Stable	11.5	10.0	12.5	13.5	10.3
Stable	7.0	5.8	5.3	7.1	9.7
Very Stable	2.7	1.5	2.3	3.5	3.5
Day, All Directions					
Very Unstable	0.8	0.5	1.9	0.5	0.1
Unstable	12.9	8.8	23.9	11.6	4.2
Slightly Unstable	31.0	28.5	40.2	33.3	18.6
Neutral Day	55.2	62.2	34.0	54.6	77.1
Night, All Directions					
Neutral Night	49.1	59.0	30.8	40.7	56.1
Slightly Stable	27.8	24.0	42.9	33.3	19.4
Stable	16.7	13.2	18.3	17.6	18.1
Very Stable	6.4	3.8	8.0	8.5	6.3

Table 5.28 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.5	0.2	1.0	0.4	0.0
Unstable	8.1	4.6	15.6	8.0	2.0
Slightly Unstable	20.8	16.8	30.1	23.2	10.5
Neutral Day	30.3	35.6	23.0	27.4	37.4
Neutral Night	19.0	27.4	9.9	12.3	25.1
Slightly Stable	13.0	10.1	14.0	16.3	12.6
Stable	6.6	4.4	5.0	8.8	11.0
Very Stable	1.7	0.9	1.5	3.6	1.5
Day, Onshore					
Very Unstable	0.7	0.4	1.4	0.7	0.0
Unstable	13.5	8.2	22.4	13.5	3.9
Slightly Unstable	34.8	28.8	43.1	39.3	21.9
Neutral Day	50.9	62.6	33.1	46.5	74.1
Night, Onshore					
Neutral Night	46.0	62.4	31.4	29.9	50.3
Slightly Stable	33.1	24.9	47.5	40.0	25.0
Stable	16.5	10.3	16.5	21.4	21.6
Very Stable	4.3	2.4	4.7	8.7	3.0

Table 5.28 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.5	0.3	2.0	0.2	0.2
Unstable	6.3	4.8	19.4	4.3	1.8
Slightly Unstable	13.7	15.3	21.2	16.8	6.5
Neutral Day	31.5	28.7	28.5	35.1	32.6
Neutral Night	22.4	23.0	7.1	20.9	31.1
Slightly Stable	10.2	13.0	7.5	11.8	9.1
Stable	7.8	8.5	7.1	5.6	9.2
Very Stable	7.5	6.4	7.3	5.2	9.6
Day, Alongshore					
Very Unstable	1.0	0.8	2.7	0.3	0.4
Unstable	12.2	10.8	27.3	7.7	4.8
Slightly Unstable	26.3	30.6	30.1	29.8	16.3
Neutral Day	60.6	57.8	39.9	62.2	78.5
Night, Alongshore					
Neutral Night	46.5	45.4	25.3	48.2	53.0
Slightly Stable	21.5	26.0	26.5	27.0	15.7
Stable	16.2	15.5	24.0	12.8	15.5
Very Stable	15.8	13.1	24.3	11.9	15.8

Table 5.28 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.5	0.4	3.6	0.1	0.0
Unstable	6.5	6.0	22.8	6.4	1.9
Slightly Unstable	12.6	15.1	23.5	14.4	7.1
Neutral Day	36.0	35.0	26.7	41.3	36.8
Neutral Night	25.9	22.8	7.4	22.6	34.7
Slightly Stable	8.1	8.3	6.5	8.4	8.2
Stable	7.7	10.4	6.1	4.8	8.5
Very Stable	2.5	2.1	3.4	2.0	2.8
Day, Offshore					
Very Unstable	1.0	0.5	4.7	0.2	0.0
Unstable	11.6	10.5	29.7	10.3	4.3
Slightly Unstable	22.6	26.8	30.5	23.2	15.3
Neutral Day	64.9	62.2	35.1	66.3	80.3
Night, Offshore					
Neutral Night	58.5	52.1	31.3	60.0	64.4
Slightly Stable	18.2	19.2	26.6	22.1	14.9
Stable	17.6	23.4	27.1	12.6	15.8
Very Stable	5.8	5.2	15.0	5.3	5.0

Table 5.29
Houston, Texas
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.7	0.6	1.9	0.1	0.0
Unstable	5.0	4.1	10.1	4.2	1.4
Slightly Unstable	10.0	9.2	16.1	9.3	5.4
Neutral Day	26.7	31.3	21.3	26.0	28.4
Neutral Night	18.8	22.8	4.7	15.2	32.6
Slightly Stable	12.6	11.8	10.5	14.4	13.6
Stable	17.0	13.2	21.6	20.2	12.8
Very Stable	9.3	7.0	13.8	10.6	5.6
Day, All Directions					
Very Unstable	1.6	1.3	3.9	0.2	0.1
Unstable	11.8	9.0	20.5	10.7	4.1
Slightly Unstable	23.7	20.4	32.6	23.5	15.4
Neutral Day	63.0	69.3	43.0	65.5	80.4
Night, All Directions					
Neutral Night	32.6	41.6	9.2	25.2	50.4
Slightly Stable	21.8	21.5	20.8	23.8	21.1
Stable	29.5	24.1	42.7	33.4	19.8
Very Stable	16.1	12.7	27.2	17.5	8.7

Table 5.29 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.6	0.5	1.3	0.1	0.0
Unstable	4.5	3.7	8.1	3.8	0.8
Slightly Unstable	9.8	8.5	15.1	9.1	4.4
Neutral Day	29.4	33.4	25.1	29.4	29.4
Neutral Night	16.9	24.5	3.6	11.5	31.2
Slightly Stable	12.9	11.4	12.4	14.6	14.6
Stable	18.2	13.0	22.6	23.0	14.1
Very Stable	7.8	4.9	11.8	8.7	5.5
Day, Onshore					
Very Unstable	1.2	1.1	2.6	0.2	0.0
Unstable	10.1	8.1	16.4	8.9	2.3
Slightly Unstable	22.1	18.4	30.4	21.4	12.7
Neutral Day	66.5	72.4	50.6	69.5	84.9
Night, Onshore					
Neutral Night	30.3	45.5	7.1	20.0	47.5
Slightly Stable	23.1	21.2	24.3	25.2	22.4
Stable	32.6	24.1	45.1	39.8	21.7
Very Stable	14.0	9.1	23.5	15.0	8.4

Table 5.29 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	1.2	1.0	3.7	0.1	0.0
Unstable	7.5	8.0	14.1	5.3	2.8
Slightly Unstable	13.8	13.1	18.9	14.1	8.4
Neutral Day	21.8	24.1	15.5	23.1	26.2
Neutral Night	17.1	18.7	7.2	14.6	29.0
Slightly Stable	11.6	11.8	8.5	14.2	12.2
Stable	18.4	14.4	21.1	19.8	15.6
Very Stable	8.6	8.9	10.9	8.7	5.8
Day, Alongshore					
Very Unstable	2.8	2.1	7.1	0.3	0.0
Unstable	16.9	17.3	27.0	12.5	7.6
Slightly Unstable	31.1	28.4	36.2	33.1	23.0
Neutral Day	49.2	52.2	29.7	54.2	69.5
Night, Alongshore					
Neutral Night	30.5	34.7	15.2	25.4	46.3
Slightly Stable	20.9	22.0	17.8	24.7	19.7
Stable	33.2	26.7	44.1	34.6	25.0
Very Stable	15.4	16.6	22.9	15.3	9.1

Table 5.29 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.5	0.6	2.3	0.0	0.0
Unstable	4.5	3.5	13.4	4.5	1.4
Slightly Unstable	8.7	10.3	18.0	7.4	4.9
Neutral Day	26.7	31.1	17.7	24.3	29.9
Neutral Night	24.9	21.4	7.1	22.4	36.5
Slightly Stable	12.3	12.7	5.8	15.0	12.7
Stable	14.9	14.4	20.9	17.3	10.7
Very Stable	7.5	6.1	14.8	9.2	3.9
Day, Offshore					
Very Unstable	1.1	1.3	4.4	0.0	0.0
Unstable	11.1	7.6	26.1	12.4	3.9
Slightly Unstable	21.5	22.6	34.7	20.3	13.5
Neutral Day	66.3	68.5	34.8	67.3	82.6
Night, Offshore					
Neutral Night	41.8	39.2	14.3	35.0	57.2
Slightly Stable	20.7	23.2	11.6	23.4	19.9
Stable	24.9	26.4	42.8	27.1	16.7
Very Stable	12.6	11.2	31.3	14.4	6.1

Table 5.30
Brownsville, Texas
Percent of Hours in Each Stability Class
by Wind Direction, Season and Time of Day

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Unstable	0.2	0.2	0.5	0.1	0.0
Unstable	1.8	1.2	3.3	2.1	0.8
Slightly Unstable	8.1	7.1	10.9	8.7	5.8
Neutral Day	31.4	33.6	34.2	26.6	30.9
Neutral Night	22.8	33.8	7.5	17.7	32.3
Slightly Stable	14.3	11.1	15.7	15.9	14.4
Stable	15.9	9.6	21.0	21.2	11.7
Very Stable	5.6	3.6	6.9	7.8	4.1
Day, All Directions					
Very Unstable	0.5	0.5	1.0	0.2	0.0
Unstable	4.5	2.8	6.8	5.7	2.0
Slightly Unstable	19.6	16.8	22.2	23.1	15.6
Neutral Day	75.5	79.9	70.0	71.1	82.4
Night, All Directions					
Neutral Night	38.9	58.2	14.6	28.2	51.7
Slightly Stable	24.4	19.1	30.7	25.5	23.0
Stable	27.1	16.5	41.1	33.8	18.8
Very Stable	9.6	6.2	13.6	12.4	6.6

Table 5.30 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Unstable	0.1	0.4	0.1	0.0	0.0
Unstable	1.8	0.9	2.7	2.1	1.0
Slightly Unstable	7.2	4.8	9.0	8.8	5.4
Neutral Day	29.9	33.1	35.5	22.3	24.5
Neutral Night	20.7	33.8	7.6	18.0	28.3
Slightly Stable	17.1	14.0	17.4	18.2	19.8
Stable	19.6	10.8	23.4	25.5	18.5
Very Stable	3.6	2.2	4.3	5.1	2.5
Day, Onshore					
Very Unstable	0.4	1.0	0.2	0.0	0.0
Unstable	4.5	2.3	5.7	6.3	3.1
Slightly Unstable	18.4	12.2	18.8	26.5	17.5
Neutral Day	76.8	84.5	75.2	67.2	79.4
Night, Onshore					
Neutral Night	34.0	55.5	14.4	26.8	41.0
Slightly Stable	28.0	23.0	32.9	27.2	28.7
Stable	32.1	17.8	44.5	38.3	26.7
Very Stable	5.9	3.6	8.1	7.7	3.6

Table 5.30 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	1.5	1.3	3.3	1.8	0.3
Slightly Unstable	10.0	10.8	16.8	9.2	5.3
Neutral Day	37.2	37.2	36.9	37.7	37.2
Neutral Night	25.6	37.5	8.1	16.2	34.8
Slightly Stable	11.6	6.8	14.5	15.0	11.1
Stable	10.6	4.8	15.6	16.2	7.8
Very Stable	3.4	1.7	4.8	4.0	3.5
Day, Alongshore					
Very Unstable	0.0	0.0	0.0	0.0	0.0
Unstable	3.1	2.6	5.7	3.6	0.7
Slightly Unstable	20.6	22.0	29.5	19.0	12.4
Neutral Day	76.3	75.3	64.8	77.4	86.9
Night, Alongshore					
Neutral Night	49.9	74.0	18.9	31.5	60.8
Slightly Stable	22.7	13.4	33.8	29.1	19.4
Stable	20.7	9.4	36.1	31.5	13.7
Very Stable	6.7	3.3	11.2	7.8	6.2

Table 5.30 (continued)

Stability	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Unstable	0.9	0.0	7.6	0.4	0.0
Unstable	3.4	2.6	14.3	3.0	1.3
Slightly Unstable	7.7	6.5	7.2	9.0	7.4
Neutral Day	25.5	23.6	14.3	21.4	32.5
Neutral Night	26.7	19.7	2.7	23.5	38.2
Slightly Stable	9.9	11.1	4.1	13.3	7.8
Stable	19.4	27.3	34.0	23.9	8.6
Very Stable	6.5	9.1	15.7	5.6	4.2
Day, Offshore					
Very Unstable	2.4	0.0	17.7	1.2	0.0
Unstable	9.0	8.0	32.6	8.7	3.0
Slightly Unstable	20.6	20.2	17.2	26.8	17.9
Neutral Day	68.1	71.8	32.6	63.3	79.1
Night, Offshore					
Neutral Night	42.7	29.5	4.5	35.5	65.0
Slightly Stable	15.9	16.6	6.8	20.0	13.3
Stable	31.1	40.4	61.5	36.2	14.7
Very Stable	10.4	13.5	27.1	8.4	7.1

Table 6.1
Portland, Maine
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	20.4	17.7	21.0	24.7	18.2
2.5-4.9	46.2	42.3	46.6	50.7	45.4
5.0-9.9	31.9	38.1	32.1	23.9	33.5
<u>>10.0</u>	1.4	1.9	0.3	0.7	2.9
All Directions, Day					
0.5-2.4	11.1	9.1	8.3	15.1	14.5
2.5-4.9	41.0	37.4	40.8	47.2	39.2
5.0-9.9	45.8	50.6	50.2	36.8	41.7
<u>>10.0</u>	2.0	2.9	0.7	0.9	4.6
All Directions, Night					
0.5-2.4	27.0	26.1	34.0	30.6	19.6
2.5-4.9	50.0	46.9	52.4	52.9	47.8
5.0-9.9	22.0	26.0	13.6	15.8	30.4
<u>>10.0</u>	1.0	0.9	0.0	0.6	2.2

Table 6.1 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	17.7	11.5	15.9	19.4	35.5
2.5-4.9	50.8	51.3	49.6	58.1	36.2
5.0-9.9	30.6	35.6	34.5	22.1	25.5
≥10.0	0.9	1.6	0.0	0.3	2.9
Onshore, Day					
0.5-2.4	9.8	5.4	5.7	12.9	39.7
2.5-4.9	51.4	50.4	47.1	63.2	41.7
5.0-9.9	38.3	42.6	47.2	24.0	18.6
≥10.0	0.5	1.6	0.0	0.0	0.0
Onshore, Night					
0.5-2.4	29.8	23.1	37.8	26.9	32.7
2.5-4.9	50.1	53.0	54.9	53.5	32.4
5.0-9.9	18.8	22.3	7.4	18.8	30.2
≥10.0	1.4	1.5	0.0	0.8	4.8

Table 16.4b) (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours, Offshore					
0.0-2.4	15.0	18.3	13.5	15.9	12.2
2.5-4.9	47.3	36.0	46.4	56.5	49.2
5.0-9.9	37.1	45.7	38.7	27.4	37.3
10.0 >	0.7	0.0	1.4	0.3	1.2
Alongshore, Day, Offshore					
0.0-2.4	10.9	9.8	7.5	16.9	8.6
2.5-4.9	37.2	33.4	33.1	44.7	45.0
5.0-9.9	50.4	56.8	56.4	37.5	43.8
10.0 >	4.5	0.0	3.3	0.9	2.6
Alongshore, Night, Offshore					
0.0-2.4	17.4	25.5	17.8	15.4	13.3
2.5-4.9	59.3	38.7	55.8	63.7	50.6
5.0-9.9	29.1	35.8	26.4	20.9	35.3
10.0 >	0.2	0.0	0.0	0.0	0.8

Table 16 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Offshore, 24 Hrs, Alongshore					
0.5-2.4	24.8	8.8	20.9	29.4	32.4
2.5-4.9	43.7	0.8	40.5	44.5	43.7
5.0-9.9	29.9	7.2	35.7	26.1	22.8
10.0 >	2.1	0.0	3.0	0.0	1.1
Offshore, Day, Alongshore					
0.5-2.4	12.3	8.4	12.1	18.1	16.7
2.5-4.9	35.5	4.0	29.6	39.1	37.2
5.0-9.9	48.7	8.0	52.9	49.4	44.8
10.0 >	3.4	0.0	5.5	0.0	1.8
Offshore, Night, Alongshore					
0.5-2.4	30.9	2.2	27.2	44.2	40.3
2.5-4.9	48.3	7.8	48.2	48.0	46.8
5.0-9.9	19.5	8.2	23.5	6.9	12.1
10.0 >	1.3	0.0	1.1	0.0	0.8

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Boston, Massachusetts

Percent of Hours in Each Wind Speed Class

by Wind Direction, Season and Time of Day

Wind Speed 0.5 (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5
0.5-1.0	6.3	8.2	5.7	5.6	0.01
1.0-1.5	30.1	28.8	33.8	29.7	28.0
1.5-2.0	57.9	57.5	59.4	60.7	54.1
2.0-2.5	5.7	5.2	1.1	4.0	10.3
2.5-3.0	1.5	0.1	2.1	0.4	2.5
3.0-3.5	0.0	0.0	0.0	0.0	0.0
3.5-4.0	4.1	0.2	2.7	3.3	0.01
4.0-4.5	24.9	24.0	27.6	23.5	23.3
4.5-5.0	63.8	60.9	67.7	68.3	55.6
5.0-5.5	7.2	10.7	1.9	4.9	13.7
5.5-6.0	0.8	0.0	0.1	0.4	2.5
6.0-6.5	0.0	0.0	0.0	0.0	0.0
6.5-7.0	7.8	0.0	8.8	7.0	0.01
7.0-7.5	33.8	33.2	40.0	33.6	29.9
7.5-8.0	53.8	54.4	51.0	56.0	53.5
8.0-8.5	4.6	4.2	0.3	3.5	9.0

Table 6.2 (continued)

Percent of Hours in Each Wind Speed Class						
Wind Speed (msec ⁻¹)						
Season						
Annual Spring Summer Fall Winter						
Onshore, All Hours						
0.5-2.4	10.3	0.0	19.4	8.0	18.0	
2.5-4.9	36.1	38.0	38.1	33.9	31.5	
5.0-9.9	49.8	46.2	52.5	54.9	41.6	
>10.0	3.9	5.8	0.0	3.2	9.0	
0.5-2.4	10.3	0.0	19.4	8.0	18.0	
2.5-4.9	36.1	38.0	38.1	33.9	31.5	
5.0-9.9	49.8	46.2	52.5	54.9	41.6	
>10.0	3.9	5.8	0.0	3.2	9.0	
Onshore, Day						
0.5-2.4	5.5	5.2	3.5	3.7	17.4	
2.5-4.9	31.5	31.6	32.7	29.8	28.5	
5.0-9.9	59.9	58.9	63.9	64.2	45.2	
>10.0	3.1	5.0	0.0	2.3	8.9	
0.5-2.4	5.5	5.2	3.5	3.7	17.4	
2.5-4.9	31.5	31.6	32.7	29.8	28.5	
5.0-9.9	59.9	58.9	63.9	64.2	45.2	
>10.0	3.1	5.0	0.0	2.3	8.9	
Onshore, Night						
0.5-2.4	15.9	17.7	21.8	11.1	18.5	
2.5-4.9	41.4	46.6	48.9	38.5	32.7	
5.0-9.9	37.9	28.9	29.3	46.3	39.4	
>10.0	4.8	6.9	0.0	4.1	9.4	
0.5-2.4	15.9	17.7	21.8	11.1	18.5	
2.5-4.9	41.4	46.6	48.9	38.5	32.7	
5.0-9.9	37.9	28.9	29.3	46.3	39.4	
>10.0	4.8	6.9	0.0	4.1	9.4	

Table 6.2) (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	9.2	8.7	7.0	8.2	12.2
2.5-4.9	39.6	40.7	36.5	41.5	39.0
5.0-9.9	47.7	48.8	55.7	48.4	40.0
10.0 >	3.5	1.8	0.7	2.0	8.8
Alongshore, Day					
0.5-2.4	6.2	7.3	2.8	8.5	6.2
2.5-4.9	33.3	37.6	28.2	30.0	40.9
5.0-9.9	55.9	50.9	67.4	55.8	45.6
10.0 >	4.6	4.2	1.9	5.6	7.3
Alongshore, Night					
0.5-2.4	10.6	9.5	10.1	8.1	13.7
2.5-4.9	42.7	43.1	42.5	46.1	39.2
5.0-9.9	43.7	47.4	47.4	45.4	37.9
10.0 >	3.0	0.0	0.0	0.5	9.2

Table 6.2) (continued)

Wind Speed Total (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Offshore, All Hours					
0.5-2.4	3.4	7.8	3.6	2.5	3.9
2.5-4.9	23.9	7.0	30.7	21.6	23.4
5.0-9.9	65.5	8.8	63.9	70.4	61.5
>10.0	7.3	8.1	8.1	5.4	11.1
Offshore, Day					
0.5-2.4	2.6	7.3	2.2	1.2	4.1
2.5-4.9	17.7	13.4	23.8	15.5	17.2
5.0-9.9	68.9	66.7	70.6	76.3	61.5
>10.0	10.9	16.8	3.4	7.0	17.1
Offshore, Night					
0.5-2.4	3.8	3.6	4.8	3.3	3.8
2.5-4.9	27.7	25.3	36.3	25.3	25.7
5.0-9.9	63.4	66.5	58.4	66.8	61.6
>10.0	5.1	4.6	0.5	4.6	8.9

Table 6.3. 1961-1970

Bedford, Massachusetts

Percent of Hours in Each Wind Speed Class

by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
All Directions, All Hours	1.0	1.0	1.0	1.0	1.0
0.5-2.4	27.5	22.0	31.9	32.8	23.9
2.5-4.9	40.4	40.1	44.5	41.8	35.0
5.0-9.9	30.4	35.9	23.4	24.7	37.2
>10.0	1.7	2.1	0.2	0.8	4.0
All Directions, Day	1.0	1.0	1.0	1.0	1.0
0.5-2.4	18.7	13.3	23.8	23.2	16.5
2.5-4.9	39.3	35.0	45.7	41.8	31.6
5.0-9.9	39.6	48.1	32.3	33.9	46.2
>10.0	2.4	3.6	0.2	1.2	5.7
All Directions, Night	1.0	1.0	1.0	1.0	1.0
0.5-2.4	35.7	31.2	46.7	41.1	27.9
2.5-4.9	41.4	45.4	42.9	41.8	36.8
5.0-9.9	21.7	22.9	10.3	16.7	32.3
>10.0	1.2	0.4	0.1	0.4	3.1

Table 6.3 (continued)

Wind Speeds to which the data are based						
Season						
(msec ⁻¹)	Annual	Spring	Summer	Fall	Winter	
Onshore, All Hours						
0.5-2.4	28.7	23.5	29.0	35.1	27.0	
2.5-4.9	44.3	47.0	50.0	41.9	40.2	
5.0-9.9	26.1	28.8	21.0	22.6	29.8	
10.0-14.9	0.0	0.0	0.0	0.3	0.0	
15.0-19.9	0.0	0.0	0.0	0.0	0.0	
20.0-24.9	0.0	0.0	0.0	0.0	0.0	
25.0-29.9	0.0	0.0	0.0	0.0	0.0	
30.0-34.9	0.0	0.0	0.0	0.0	0.0	
35.0-39.9	0.0	0.0	0.0	0.0	0.0	
40.0-44.9	0.0	0.0	0.0	0.0	0.0	
45.0-49.9	0.0	0.0	0.0	0.0	0.0	
50.0-54.9	0.0	0.0	0.0	0.0	0.0	
55.0-59.9	0.0	0.0	0.0	0.0	0.0	
60.0-64.9	0.0	0.0	0.0	0.0	0.0	
65.0-69.9	0.0	0.0	0.0	0.0	0.0	
70.0-74.9	0.0	0.0	0.0	0.0	0.0	
75.0-79.9	0.0	0.0	0.0	0.0	0.0	
80.0-84.9	0.0	0.0	0.0	0.0	0.0	
85.0-89.9	0.0	0.0	0.0	0.0	0.0	
90.0-94.9	0.0	0.0	0.0	0.0	0.0	
95.0-99.9	0.0	0.0	0.0	0.0	0.0	
100.0-104.9	0.0	0.0	0.0	0.0	0.0	
105.0-109.9	0.0	0.0	0.0	0.0	0.0	
110.0-114.9	0.0	0.0	0.0	0.0	0.0	
115.0-119.9	0.0	0.0	0.0	0.0	0.0	
120.0-124.9	0.0	0.0	0.0	0.0	0.0	
125.0-129.9	0.0	0.0	0.0	0.0	0.0	
130.0-134.9	0.0	0.0	0.0	0.0	0.0	
135.0-139.9	0.0	0.0	0.0	0.0	0.0	
140.0-144.9	0.0	0.0	0.0	0.0	0.0	
145.0-149.9	0.0	0.0	0.0	0.0	0.0	
150.0-154.9	0.0	0.0	0.0	0.0	0.0	
155.0-159.9	0.0	0.0	0.0	0.0	0.0	
160.0-164.9	0.0	0.0	0.0	0.0	0.0	
165.0-169.9	0.0	0.0	0.0	0.0	0.0	
170.0-174.9	0.0	0.0	0.0	0.0	0.0	
175.0-179.9	0.0	0.0	0.0	0.0	0.0	
180.0-184.9	0.0	0.0	0.0	0.0	0.0	
185.0-189.9	0.0	0.0	0.0	0.0	0.0	
190.0-194.9	0.0	0.0	0.0	0.0	0.0	
195.0-199.9	0.0	0.0	0.0	0.0	0.0	
200.0-204.9	0.0	0.0	0.0	0.0	0.0	
205.0-209.9	0.0	0.0	0.0	0.0	0.0	
210.0-214.9	0.0	0.0	0.0	0.0	0.0	
215.0-219.9	0.0	0.0	0.0	0.0	0.0	
220.0-224.9	0.0	0.0	0.0	0.0	0.0	
225.0-229.9	0.0	0.0	0.0	0.0	0.0	
230.0-234.9	0.0	0.0	0.0	0.0	0.0	
235.0-239.9	0.0	0.0	0.0	0.0	0.0	
240.0-244.9	0.0	0.0	0.0	0.0	0.0	
245.0-249.9	0.0	0.0	0.0	0.0	0.0	
250.0-254.9	0.0	0.0	0.0	0.0	0.0	
255.0-259.9	0.0	0.0	0.0	0.0	0.0	
260.0-264.9	0.0	0.0	0.0	0.0	0.0	
265.0-269.9	0.0	0.0	0.0	0.0	0.0	
270.0-274.9	0.0	0.0	0.0	0.0	0.0	
275.0-279.9	0.0	0.0	0.0	0.0	0.0	
280.0-284.9	0.0	0.0	0.0	0.0	0.0	
285.0-289.9	0.0	0.0	0.0	0.0	0.0	
290.0-294.9	0.0	0.0	0.0	0.0	0.0	
295.0-299.9	0.0	0.0	0.0	0.0	0.0	
300.0-304.9	0.0	0.0	0.0	0.0	0.0	
305.0-309.9	0.0	0.0	0.0	0.0	0.0	
310.0-314.9	0.0	0.0	0.0	0.0	0.0	
315.0-319.9	0.0	0.0	0.0	0.0	0.0	
320.0-324.9	0.0	0.0	0.0	0.0	0.0	
325.0-329.9	0.0	0.0	0.0	0.0	0.0	
330.0-334.9	0.0	0.0	0.0	0.0	0.0	
335.0-339.9	0.0	0.0	0.0	0.0	0.0	
340.0-344.9	0.0	0.0	0.0	0.0	0.0	
345.0-349.9	0.0	0.0	0.0	0.0	0.0	
350.0-354.9	0.0	0.0	0.0	0.0	0.0	
355.0-359.9	0.0	0.0	0.0	0.0	0.0	
360.0-364.9	0.0	0.0	0.0	0.0	0.0	
365.0-369.9	0.0	0.0	0.0	0.0	0.0	
370.0-374.9	0.0	0.0	0.0	0.0	0.0	
375.0-379.9	0.0	0.0	0.0	0.0	0.0	
380.0-384.9	0.0	0.0	0.0	0.0	0.0	
385.0-389.9	0.0	0.0	0.0	0.0	0.0	
390.0-394.9	0.0	0.0	0.0	0.0	0.0	
395.0-399.9	0.0	0.0	0.0	0.0	0.0	
400.0-404.9	0.0	0.0	0.0	0.0	0.0	
405.0-409.9	0.0	0.0	0.0	0.0	0.0	
410.0-414.9	0.0	0.0	0.0	0.0	0.0	
415.0-419.9	0.0	0.0	0.0	0.0	0.0	
420.0-424.9	0.0	0.0	0.0	0.0	0.0	
425.0-429.9	0.0	0.0	0.0	0.0	0.0	
430.0-434.9	0.0	0.0	0.0	0.0	0.0	
435.0-439.9	0.0	0.0	0.0	0.0	0.0	
440.0-444.9	0.0	0.0	0.0	0.0	0.0	
445.0-449.9	0.0	0.0	0.0	0.0	0.0	
450.0-454.9	0.0	0.0	0.0	0.0	0.0	
455.0-459.9	0.0	0.0	0.0	0.0	0.0	
460.0-464.9	0.0	0.0	0.0	0.0	0.0	
465.0-469.9	0.0	0.0	0.0	0.0	0.0	
470.0-474.9	0.0	0.0	0.0	0.0	0.0	
475.0-479.9	0.0	0.0	0.0	0.0	0.0	
480.0-484.9	0.0	0.0	0.0	0.0	0.0	
485.0-489.9	0.0	0.0	0.0	0.0	0.0	
490.0-494.9	0.0	0.0	0.0	0.0	0.0	
495.0-499.9	0.0	0.0	0.0	0.0	0.0	
500.0-504.9	0.0	0.0	0.0	0.0	0.0	
505.0-509.9	0.0	0.0	0.0	0.0	0.0	
510.0-514.9	0.0	0.0	0.0	0.0	0.0	
515.0-519.9	0.0	0.0	0.0	0.0	0.0	
520.0-524.9	0.0	0.0	0.0	0.0	0.0	
525.0-529.9	0.0	0.0	0.0	0.0	0.0	
530.0-534.9	0.0	0.0	0.0	0.0	0.0	
535.0-539.9	0.0	0.0	0.0	0.0	0.0	
540.0-544.9	0.0	0.0	0.0	0.0	0.0	
545.0-549.9	0.0	0.0	0.0	0.0	0.0	
550.0-554.9	0.0	0.0	0.0	0.0	0.0	
555.0-559.9	0.0	0.0	0.0	0.0	0.0	
560.0-564.9	0.0	0.0	0.0	0.0	0.0	
565.0-569.9	0.0	0.0	0.0	0.0	0.0	
570.0-574.9	0.0	0.0	0.0	0.0	0.0	
575.0-579.9	0.0	0.0	0.0	0.0	0.0	
580.0-584.9	0.0	0.0	0.0	0.0	0.0	
585.0-589.9	0.0	0.0	0.0	0.0	0.0	
590.0-594.9	0.0	0.0	0.0	0.0	0.0	
595.0-599.9	0.0	0.0	0.0	0.0	0.0	
600.0-604.9	0.0	0.0	0.0	0.0	0.0	
605.0-609.9	0.0	0.0	0.0	0.0	0.0	
610.0-614.9	0.0	0.0	0.0	0.0	0.0	
615.0-619.9	0.0	0.0	0.0	0.0	0.0	
620.0-624.9	0.0	0.0	0.0	0.0	0.0	
625.0-629.9	0.0	0.0	0.0	0.0	0.0	
630.0-634.9	0.0	0.0	0.0	0.0	0.0	
635.0-639.9	0.0	0.0	0.0	0.0	0.0	
640.0-644.9	0.0	0.0	0.0	0.0	0.0	
645.0-649.9	0.0	0.0	0.0	0.0	0.0	
650.0-654.9	0.0	0.0	0.0	0.0	0.0	
655.0-659.9	0.0	0.0	0.0	0.0	0.0	
660.0-664.9	0.0	0.0	0.0	0.0	0.0	
665.0-669.9	0.0	0.0	0.0	0.0	0.0	
670.0-674.9	0.0	0.0	0.0	0.0	0.0	
675.0-679.9	0.0	0.0	0.0	0.0	0.0	
680.0-684.9	0.0	0.0	0.0	0.0	0.0	
685.0-689.9	0.0	0.0	0.0	0.0	0.0	
690.0-694.9	0.0	0.0	0.0	0.0	0.0	
695.0-699.9	0.0	0.0	0.0	0.0	0.0	
700.0-704.9	0.0	0.0	0.0	0.0	0.0	
705.0-709.9	0.0	0.0	0.0	0.0	0.0	
710.0-714.9	0.0	0.0	0.0	0.0	0.0	
715.0-719.9	0.0	0.0	0.0	0.0	0.0	
720.0-724.9	0.0	0.0	0.0	0.0	0.0	
725.0-729.9	0.0	0.0	0.0	0.0	0.0	
730.0-734.9	0.0	0.0	0.0	0.0	0.0	
735.0-739.9	0.0	0.0	0.0	0.0	0.0	
740.0-744.9	0.0	0.0	0.0	0.0	0.0	
745.0-749.9	0.0	0.0	0.0	0.0	0.0	
750.0-754.9	0.0	0.0	0.0	0.0	0.0	
755.0-759.9	0.0	0.0	0.0	0.0	0.0	
760.0-764.9	0.0	0.0	0.0	0.0	0.0	
765.0-769.9	0.0	0.0	0.0	0.0	0.0	
770.0-774.9	0.0	0.0	0.0	0.0	0.0	
775.0-779.9	0.0	0.0	0.0	0.0	0.0	
780.0-784.9	0.0	0.0	0.0	0.0	0.0	
785.0-789.9	0.0	0.0	0.0	0.0	0.0	
790.0-794.9	0.0	0.0	0.0	0.0	0.0	
795.0-799.9	0.0	0.0	0.0	0.0	0.0	
800.0-804.9	0.0	0.0	0.0	0.0	0.0	
805.0-809.9	0.0	0.0	0.0	0.0	0.0	
810.0-814.9	0.0	0.0	0.0	0.0	0.0	
815.0-819.9	0.0	0.0	0.0	0.0	0.0	
820.0-824.9	0.0	0.0	0.0	0.0	0.0	
825.0-829.9	0.0	0.0	0.0	0.0	0.0	
830.0-834.9	0.0	0.0	0.0	0.0	0.0	
835.0-839.9	0.0	0.0	0.0	0.0	0.0	
840.0-844.9	0.0	0.0	0.0	0.0	0.0	
845.0-849.9	0.0	0.0	0.0	0.0	0.0	
850.0-854.9	0.0	0.0	0.0	0.0	0.0	
855.0-859.9	0.0	0.0	0.0	0.0	0.0	
860.0-864.9	0.0	0.0	0.0	0.0	0.0	
865.0-869.9	0.0	0.0	0.0	0.0	0.0	
870.0-874.9	0.0	0.0	0.0	0.0	0.0	
875.0-879.9	0.0	0.0	0.0	0.0	0.0	
880.0-884.9	0.0	0.0	0.0	0.0	0.0	
885.0-889.9	0.0	0.0	0.0	0.0	0.0	
890.0-894.9	0.0	0.0	0.0	0.0	0.0	
895.0-899.9	0.0	0.0	0.0	0.0	0.0	
900.0-904.9	0.0	0.0	0.0	0.0	0.0	
905.0-909.9	0.0	0.0	0.0	0.0	0.0	

Table 6.3 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		
			Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	30.7	27.9	34.6	37.1	24.5
2.5-4.9	40.6	42.2	47.3	42.1	31.6
5.0-9.9	26.8	29.4	17.6	20.4	38.1
<u>>10.0</u>	1.9	0.5	0.5	0.4	5.8
Alongshore, Day					
0.5-2.4	23.6	18.1	26.0	28.9	22.0
2.5-4.9	42.6	42.9	48.3	43.5	33.3
5.0-9.9	32.3	38.3	24.7	27.2	40.1
<u>>10.0</u>	1.5	0.7	0.9	0.4	4.6
Alongshore, Night					
0.5-2.4	37.5	39.5	46.6	44.4	25.9
2.5-4.9	38.6	41.6	45.8	40.9	30.7
5.0-9.9	21.6	18.6	7.7	14.3	37.0
<u>>10.0</u>	2.3	0.3	0.0	0.3	6.4

Table 6.3 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	26.2	19.7	31.8	30.1	23.2
2.5-4.9	38.9	36.7	42.7	41.4	34.6
5.0-9.9	33.0	40.5	25.4	27.4	38.4
<u>>10.0</u>	2.0	3.2	0.1	1.1	3.8
	Offshore, Day				
0.5-2.4	16.3	10.7	20.5	19.3	13.0
2.5-4.9	35.2	26.2	44.0	38.7	27.3
5.0-9.9	45.1	56.8	35.3	40.0	52.2
<u>>10.0</u>	3.4	6.2	0.2	2.1	7.5
	Offshore, Night				
0.5-2.4	34.8	27.9	46.8	39.5	28.3
2.5-4.9	42.2	46.3	41.0	43.7	38.2
5.0-9.9	22.3	25.5	12.0	16.5	31.5
<u>>10.0</u>	0.8	0.4	0.1	0.3	2.0

Table 6.4
Falmouth, Massachusetts
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	18.5	14.5	21.6	22.2	16.2
2.5-4.9	34.8	32.0	40.6	37.8	29.2
5.0-9.9	41.3	45.6	37.1	36.9	45.2
<u>>10.0</u>	5.3	8.0	0.6	3.1	9.4
All Directions, Day					
0.5-2.4	10.1	7.0	14.0	10.1	8.3
2.5-4.9	32.4	26.3	37.2	38.6	26.3
5.0-9.9	50.7	55.7	47.8	47.1	52.4
<u>>10.0</u>	6.7	10.9	0.9	4.2	13.0
All Directions, Night					
0.5-2.4	25.6	21.6	31.6	31.1	20.3
2.5-4.9	36.8	37.3	45.2	37.2	30.7
5.0-9.9	33.4	35.9	23.0	29.5	41.5
<u>>10.0</u>	4.2	5.2	0.2	2.2	7.6

Table 6.4 - (continued)

Wind Speeds to 50 ft (msec ⁻¹)		Season			
Annual		Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	18.1	14.0	25.6	20.1	15.7
2.5-4.9	36.0	35.3	46.3	39.7	28.3
5.0-9.9	40.2	45.8	28.0	37.3	44.5
10.0-14.9	5.7	4.8	0.1	2.9	11.4
15.0-19.9	0.4	0.1	0.1	0.1	0.1
20.0-24.9	0.1	0.1	0.1	0.1	0.1
25.0-29.9	0.1	0.1	0.1	0.1	0.1
30.0-34.9	0.1	0.1	0.1	0.1	0.1
35.0-39.9	0.1	0.1	0.1	0.1	0.1
40.0-44.9	0.1	0.1	0.1	0.1	0.1
45.0-49.9	0.1	0.1	0.1	0.1	0.1
50.0-54.9	0.1	0.1	0.1	0.1	0.1
55.0-59.9	0.1	0.1	0.1	0.1	0.1
60.0-64.9	0.1	0.1	0.1	0.1	0.1
65.0-69.9	0.1	0.1	0.1	0.1	0.1
70.0-74.9	0.1	0.1	0.1	0.1	0.1
75.0-79.9	0.1	0.1	0.1	0.1	0.1
80.0-84.9	0.1	0.1	0.1	0.1	0.1
85.0-89.9	0.1	0.1	0.1	0.1	0.1
90.0-94.9	0.1	0.1	0.1	0.1	0.1
95.0-99.9	0.1	0.1	0.1	0.1	0.1
100.0-104.9	0.1	0.1	0.1	0.1	0.1
105.0-109.9	0.1	0.1	0.1	0.1	0.1
110.0-114.9	0.1	0.1	0.1	0.1	0.1
115.0-119.9	0.1	0.1	0.1	0.1	0.1
120.0-124.9	0.1	0.1	0.1	0.1	0.1
125.0-129.9	0.1	0.1	0.1	0.1	0.1
130.0-134.9	0.1	0.1	0.1	0.1	0.1
135.0-139.9	0.1	0.1	0.1	0.1	0.1
140.0-144.9	0.1	0.1	0.1	0.1	0.1
145.0-149.9	0.1	0.1	0.1	0.1	0.1
150.0-154.9	0.1	0.1	0.1	0.1	0.1
155.0-159.9	0.1	0.1	0.1	0.1	0.1
160.0-164.9	0.1	0.1	0.1	0.1	0.1
165.0-169.9	0.1	0.1	0.1	0.1	0.1
170.0-174.9	0.1	0.1	0.1	0.1	0.1
175.0-179.9	0.1	0.1	0.1	0.1	0.1
180.0-184.9	0.1	0.1	0.1	0.1	0.1
185.0-189.9	0.1	0.1	0.1	0.1	0.1
190.0-194.9	0.1	0.1	0.1	0.1	0.1
195.0-199.9	0.1	0.1	0.1	0.1	0.1
200.0-204.9	0.1	0.1	0.1	0.1	0.1
205.0-209.9	0.1	0.1	0.1	0.1	0.1
210.0-214.9	0.1	0.1	0.1	0.1	0.1
215.0-219.9	0.1	0.1	0.1	0.1	0.1
220.0-224.9	0.1	0.1	0.1	0.1	0.1
225.0-229.9	0.1	0.1	0.1	0.1	0.1
230.0-234.9	0.1	0.1	0.1	0.1	0.1
235.0-239.9	0.1	0.1	0.1	0.1	0.1
240.0-244.9	0.1	0.1	0.1	0.1	0.1
245.0-249.9	0.1	0.1	0.1	0.1	0.1
250.0-254.9	0.1	0.1	0.1	0.1	0.1
255.0-259.9	0.1	0.1	0.1	0.1	0.1
260.0-264.9	0.1	0.1	0.1	0.1	0.1
265.0-269.9	0.1	0.1	0.1	0.1	0.1
270.0-274.9	0.1	0.1	0.1	0.1	0.1
275.0-279.9	0.1	0.1	0.1	0.1	0.1
280.0-284.9	0.1	0.1	0.1	0.1	0.1
285.0-289.9	0.1	0.1	0.1	0.1	0.1
290.0-294.9	0.1	0.1	0.1	0.1	0.1
295.0-299.9	0.1	0.1	0.1	0.1	0.1
300.0-304.9	0.1	0.1	0.1	0.1	0.1
305.0-309.9	0.1	0.1	0.1	0.1	0.1
310.0-314.9	0.1	0.1	0.1	0.1	0.1
315.0-319.9	0.1	0.1	0.1	0.1	0.1
320.0-324.9	0.1	0.1	0.1	0.1	0.1
325.0-329.9	0.1	0.1	0.1	0.1	0.1
330.0-334.9	0.1	0.1	0.1	0.1	0.1
335.0-339.9	0.1	0.1	0.1	0.1	0.1
340.0-344.9	0.1	0.1	0.1	0.1	0.1
345.0-349.9	0.1	0.1	0.1	0.1	0.1
350.0-354.9	0.1	0.1	0.1	0.1	0.1
355.0-359.9	0.1	0.1	0.1	0.1	0.1
360.0-364.9	0.1	0.1	0.1	0.1	0.1
365.0-369.9	0.1	0.1	0.1	0.1	0.1
370.0-374.9	0.1	0.1	0.1	0.1	0.1
375.0-379.9	0.1	0.1	0.1	0.1	0.1
380.0-384.9	0.1	0.1	0.1	0.1	0.1
385.0-389.9	0.1	0.1	0.1	0.1	0.1
390.0-394.9	0.1	0.1	0.1	0.1	0.1
395.0-399.9	0.1	0.1	0.1	0.1	0.1
400.0-404.9	0.1	0.1	0.1	0.1	0.1
405.0-409.9	0.1	0.1	0.1	0.1	0.1
410.0-414.9	0.1	0.1	0.1	0.1	0.1
415.0-419.9	0.1	0.1	0.1	0.1	0.1
420.0-424.9	0.1	0.1	0.1	0.1	0.1
425.0-429.9	0.1	0.1	0.1	0.1	0.1
430.0-434.9	0.1	0.1	0.1	0.1	0.1
435.0-439.9	0.1	0.1	0.1	0.1	0.1
440.0-444.9	0.1	0.1	0.1	0.1	0.1
445.0-449.9	0.1	0.1	0.1	0.1	0.1
450.0-454.9	0.1	0.1	0.1	0.1	0.1
455.0-459.9	0.1	0.1	0.1	0.1	0.1
460.0-464.9	0.1	0.1	0.1	0.1	0.1
465.0-469.9	0.1	0.1	0.1	0.1	0.1
470.0-474.9	0.1	0.1	0.1	0.1	0.1
475.0-479.9	0.1	0.1	0.1	0.1	0.1
480.0-484.9	0.1	0.1	0.1	0.1	0.1
485.0-489.9	0.1	0.1	0.1	0.1	0.1
490.0-494.9	0.1	0.1	0.1	0.1	0.1
495.0-499.9	0.1	0.1	0.1	0.1	0.1
500.0-504.9	0.1	0.1	0.1	0.1	0.1
505.0-509.9	0.1	0.1	0.1	0.1	0.1
510.0-514.9	0.1	0.1	0.1	0.1	0.1
515.0-519.9	0.1	0.1	0.1	0.1	0.1
520.0-524.9	0.1	0.1	0.1	0.1	0.1
525.0-529.9	0.1	0.1	0.1	0.1	0.1
530.0-534.9	0.1	0.1	0.1	0.1	0.1
535.0-539.9	0.1	0.1	0.1	0.1	0.1
540.0-544.9	0.1	0.1	0.1	0.1	0.1
545.0-549.9	0.1	0.1	0.1	0.1	0.1
550.0-554.9	0.1	0.1	0.1	0.1	0.1
555.0-559.9	0.1	0.1	0.1	0.1	0.1
560.0-564.9	0.1	0.1	0.1	0.1	0.1
565.0-569.9	0.1	0.1	0.1	0.1	0.1
570.0-574.9	0.1	0.1	0.1	0.1	0.1
575.0-579.9	0.1	0.1	0.1	0.1	0.1
580.0-584.9	0.1	0.1	0.1	0.1	0.1
585.0-589.9	0.1	0.1	0.1	0.1	0.1
590.0-594.9	0.1	0.1	0.1	0.1	0.1
595.0-599.9	0.1	0.1	0.1	0.1	0.1
600.0-604.9	0.1	0.1	0.1	0.1	0.1
605.0-609.9	0.1	0.1	0.1	0.1	0.1
610.0-614.9	0.1	0.1	0.1	0.1	0.1
615.0-619.9	0.1	0.1	0.1	0.1	0.1
620.0-624.9	0.1	0.1	0.1	0.1	0.1
625.0-629.9	0.1	0.1	0.1	0.1	0.1
630.0-634.9	0.1	0.1	0.1	0.1	0.1
635.0-639.9	0.1	0.1	0.1	0.1	0.1
640.0-644.9	0.1	0.1	0.1	0.1	0.1
645.0-649.9	0.1	0.1	0.1	0.1	0.1
650.0-654.9	0.1	0.1	0.1	0.1	0.1
655.0-659.9	0.1	0.1	0.1	0.1	0.1
660.0-664.9	0.1	0.1	0.1	0.1	0.1
665.0-669.9	0.1	0.1	0.1	0.1	0.1
670.0-674.9	0.1	0.1	0.1	0.1	0.1
675.0-679.9	0.1	0.1	0.1	0.1	0.1
680.0-684.9	0.1	0.1	0.1	0.1	0.1
685.0-689.9	0.1	0.1	0.1	0.1	0.1
690.0-694.9	0.1	0.1	0.1	0.1	0.1
695.0-699.9	0.1	0.1	0.1	0.1	0.1
700.0-704.9	0.1	0.1	0.1	0.1	0.1
705.0-709.9	0.1	0.1	0.1	0.1	0.1
710.0-714.9	0.1	0.1	0.1	0.1	0.1
715.0-719.9	0.1	0.1	0.1	0.1	0.1
720.0-724.9	0.1	0.1	0.1	0.1	0.1
725.0-729.9	0.1	0.1	0.1	0.1	0.1
730.0-734.9	0.1	0.1	0.1	0.1	0.1
735.0-739.9	0.1	0.1	0.1	0.1	0.1
740.0-744.9	0.1	0.1	0.1	0.1	0.1
745.0-749.9	0.1	0.1	0.1	0.1	0.1
750.0-754.9	0.1	0.1	0.1	0.1	0.1
755.0-759.9	0.1	0.1	0.1	0.1	0.1
760.0-764.9	0.1	0.1	0.1	0.1	0.1
765.0-769.9	0.1	0.1	0.1	0.1	0.1
770.0-774.9	0.1	0.1	0.1	0.1	0.1
775.0-779.9	0.1	0.1	0.1	0.1	0.1
780.0-784.9	0.1	0.1	0.1	0.1	0.1
785.0-789.9	0.1	0.1	0.1	0.1	0.1
790.0-794.9	0.1	0.1	0.1	0.1	0.1
795.0-799.9	0.1	0.1	0.1	0.1	0.1
800.0-804.9	0.1	0.1	0.1	0.1	0.1
805.0-809.9	0.1	0.1	0.1	0.1	0.1
810.0-814.9	0.1	0.1	0.1	0.1	0.1
815.0-819.9	0.1	0.1	0.1	0.1	0.1
820.0-824.9	0.1	0.1	0.1	0.1	0.1
825.0-829.9	0.1	0.1	0.1	0.1	0.1
830.0-834.9	0.1	0.1	0.1	0.1	0.1
835.0-839.9	0.1	0.1	0.1	0.1	0.1
840.0-844.9	0.1	0.1	0.1	0.1	0.1
845.0-849.9	0.1	0.1	0.1	0.1	0.1
850.0-854.9	0.1	0.1	0.1	0.1	0.1
855.0-859.9	0.1	0.1	0.1	0.1	0.1
860.0-864.9	0.1	0.1	0.1	0.1	0.1
865.0-869.9	0.1	0.1	0.1	0.1	0.1
870.0-874.9	0.1	0.1	0.1	0.1	0.1
875.0-879.9	0.1	0.1	0.1	0.1	0.1
880.0-884.9	0.1	0.1	0.1	0.1	0.1
885.0-889.9	0.1	0.1	0.1	0.1	0.1
890.0-894.9	0.1	0.1	0.1	0.1	0.1
895.0-899.9	0.1	0.1	0.1	0.1	0.1
900.0-904.9	0.1	0.1	0.1	0.1	0.1
905.0-909.9	0.1	0.1	0.1	0.1	0.1
910.0-914.9	0.1	0.1	0.1	0.1	0.1
915.0-919.9	0.1	0.1	0.1	0.1	0.1
920.0-924.9	0.1	0.1	0.1	0.1	0.1
925.0-929.9	0.1	0.1	0.1	0.1	0.1
930.0-934.9	0.1	0.1	0.1	0.1	0.1
935.0-939.9	0.1	0.1	0.1	0.1	0.1
940.0-944.9	0.1	0.1	0.1	0.1	0.1
945.0-949.9	0.1	0.1	0.1	0.1	0.1
950.0-954.9	0.1	0.1	0.1	0.1	0.1
955.0-959.9	0.1	0.1	0.1	0.1	0.1
960.0-964.9	0.1	0.1	0.1	0.1	0.1
965.0-969.9	0.1	0.1	0.1	0.1	0.1
970.0-974.9	0.1	0.1	0.1		

(Table 6.4) (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	14.8	12.4	14.6	18.8	14.3
2.5-4.9	30.0	24.9	32.6	37.2	26.5
5.0-9.9	49.3	51.4	51.7	40.6	51.3
>10.0	15.9	11.3	11.1	3.4	7.9
Alongshore, Day					
0.5-2.4	8.5	6.8	10.2	9.4	8.3
2.5-4.9	23.8	18.2	23.2	33.4	25.1
5.0-9.9	59.8	59.7	65.0	52.9	56.1
>10.0	7.8	15.3	11.7	4.6	10.5
Alongshore, Night					
0.5-2.4	20.0	18.0	19.8	25.5	17.3
2.5-4.9	35.3	31.6	43.8	39.6	27.9
5.0-9.9	40.4	43.2	35.2	32.3	48.3
>10.0	14.3	7.2	10.5	2.6	6.5

Table 6.4 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	23.3	17.8	24.5	29.3	21.2
2.5-4.9	38.0	35.2	43.0	35.3	37.3
5.0-9.9	34.6	38.2	31.9	32.2	37.6
<u>>10.0</u>	4.0	8.8	0.7	3.2	3.9
Offshore, Day					
0.5-2.4	12.5	9.0	13.6	14.0	14.6
2.5-4.9	38.4	31.7	43.2	39.8	35.7
5.0-9.9	43.8	47.6	42.0	41.1	46.2
<u>>10.0</u>	5.3	11.7	1.1	5.1	3.6
Offshore, Night					
0.5-2.4	33.6	27.0	38.4	40.5	25.4
2.5-4.9	37.7	38.7	42.7	31.9	38.3
5.0-9.9	25.8	28.2	18.7	25.7	32.2
<u>>10.0</u>	2.9	6.1	0.2	1.9	4.1

Table 6.5
Nantucket, Massachusetts
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	4.7	3.5	6.4	4.9	4.0
2.5-4.9	33.9	29.5	45.7	36.0	24.7
5.0-9.9	53.3	57.7	47.5	52.8	54.8
≥10.0	8.1	9.3	0.5	6.3	16.4
All Directions, Day					
0.5-2.4	1.7	0.8	2.6	2.1	1.0
2.5-4.9	25.7	19.4	35.1	28.3	16.3
5.0-9.9	64.1	68.4	62.0	63.6	61.1
≥10.0	8.5	11.3	0.3	5.9	21.6
All Directions, Night					
0.5-2.4	6.9	6.0	10.3	6.9	5.3
2.5-4.9	39.9	39.2	56.5	41.5	28.1
5.0-9.9	45.2	47.5	32.5	45.2	52.3
≥10.0	7.9	7.3	0.7	6.5	14.4

Table 6.5 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	4.9	3.6	6.1	5.3	5.0
2.5-4.9	29.3	26.9	42.2	32.0	22.9
5.0-9.9	54.6	59.6	50.9	54.5	52.3
<u>>10.0</u>	11.3	9.9	0.8	8.3	19.8
Onshore, Day					
0.5-2.4	1.9	0.7	1.4	3.9	1.3
2.5-4.9	20.7	17.1	33.1	23.9	10.0
5.0-9.9	66.0	70.7	65.0	63.5	63.3
<u>>10.0</u>	11.3	11.5	0.5	8.6	25.4
Onshore, Night					
0.5-2.4	6.9	6.2	11.3	6.4	6.3
2.5-4.9	34.9	35.5	52.8	37.7	27.6
5.0-9.9	47.0	49.7	34.6	48.1	48.3
<u>>10.0</u>	11.2	8.6	1.3	7.7	17.7

Table 6.5 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	4.2	3.9	7.2	4.5	1.9
2.5-4.9	33.2	32.1	44.8	36.1	21.3
5.0-9.9	54.3	55.0	46.7	54.0	60.1
>10.0	8.3	9.0	1.3	5.4	16.7
Alongshore, Day					
0.5-2.4	1.7	1.3	4.2	1.8	0.0
2.5-4.9	22.2	19.5	30.2	24.9	11.5
5.0-9.9	66.2	67.0	64.8	68.5	64.1
>10.0	9.9	12.3	0.7	5.2	24.4
Alongshore, Night					
0.5-2.4	5.9	6.3	9.9	6.4	2.7
2.5-4.9	40.8	43.6	57.4	43.1	25.9
5.0-9.9	46.1	44.0	31.0	44.9	58.2
>10.0	7.2	6.1	1.7	5.5	13.2

Table 6.5 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		
			Summer	Fall	Winter
Offshore, All Hours					
0.5-2.4	4.8	3.2	6.2	4.7	4.0
2.5-4.9	40.1	32.0	47.9	41.9	35.5
5.0-9.9	50.8	56.1	45.9	48.8	53.8
<u>>10.0</u>	4.3	8.7	0.0	4.6	6.7
Offshore, Day					
0.5-2.4	1.4	0.8	2.5	0.0	1.1
2.5-4.9	33.4	22.4	38.1	38.3	44.4
5.0-9.9	60.7	66.3	59.4	58.7	47.0
<u>>10.0</u>	4.5	10.5	0.0	3.1	7.5
Offshore, Night					
0.5-2.4	7.8	5.8	9.9	8.2	5.3
2.5-4.9	45.9	42.1	57.8	45.0	31.5
5.0-9.9	42.2	45.3	32.3	40.9	56.8
<u>>10.0</u>	4.0	6.8	0.0	5.8	6.4

Table 6.6
Belmar, New Jersey
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	45.3	38.3	64.5	48.7	30.7
2.5-4.9	37.2	42.6	31.4	36.8	37.5
5.0-9.9	16.8	18.3	4.1	13.8	30.4
≥10.0	0.7	0.7	0.0	0.7	1.4
All Directions, Day					
0.5-2.4	36.5	28.0	52.6	38.4	21.6
2.5-4.9	41.6	45.1	41.2	43.1	35.0
5.0-9.9	21.0	25.9	6.2	17.2	41.9
≥10.0	0.9	1.0	0.0	1.3	1.6
All Directions, Night					
0.5-2.4	52.3	48.7	78.4	55.6	35.2
2.5-4.9	33.7	40.2	20.0	32.7	38.6
5.0-9.9	13.4	10.7	1.7	11.5	24.9
≥10.0	0.6	0.4	0.0	0.3	1.3

Table 6.6 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	44.3	38.3	64.0	44.9	30.8
2.5-4.9	41.1	49.4	34.8	39.3	35.9
5.0-9.9	14.0	12.0	1.2	15.1	32.1
≥10.0	0.5	0.3	0.0	0.7	1.2
Onshore, Day					
0.5-2.4	44.9	35.4	61.0	43.7	38.8
2.5-4.9	44.2	52.7	37.9	43.3	36.1
5.0-9.9	10.5	11.4	1.1	12.3	25.0
≥10.0	0.4	0.5	0.0	0.8	0.0
Onshore, Night					
0.5-2.4	43.7	42.9	73.1	45.7	24.6
2.5-4.9	37.7	44.5	25.6	36.7	36.5
5.0-9.9	18.0	12.6	1.3	17.0	36.8
≥10.0	0.6	0.0	0.0	0.6	2.0

(Table 6.6 (continued))

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	48.7	39.8	58.2	48.9	40.1
2.5-4.9	39.6	44.0	36.0	40.7	39.7
5.0-9.9	15.3	15.5	5.8	10.3	19.0
≥10.0	0.4	0.7	0.0	0.1	1.3
Alongshore, Day					
0.5-2.4	37.7	33.2	44.1	36.5	29.4
2.5-4.9	46.4	43.6	46.3	50.1	42.8
5.0-9.9	15.3	21.8	9.5	13.1	26.3
≥10.0	0.6	1.4	0.0	0.3	1.4
Alongshore, Night					
0.5-2.4	58.4	47.1	72.9	59.2	46.0
2.5-4.9	33.5	43.8	25.0	32.7	37.6
5.0-9.9	7.8	9.1	12.1	8.1	15.0
≥10.0	0.3	0.0	0.0	0.0	1.4

Table 6.6 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Offshore, All Hours					
0.5-2.4	44.4	38.0	69.7	51.6	42.5
2.5-4.9	34.2	37.8	26.4	32.5	37.3
5.0-9.9	20.5	23.2	3.8	14.9	32.8
≥10.0	0.9	1.0	0.0	1.0	1.4
Offshore, Day					
0.5-2.4	31.0	20.4	54.6	36.2	44.2
2.5-4.9	37.2	39.2	39.0	37.9	32.7
5.0-9.9	30.5	39.1	6.4	24.4	51.0
≥10.0	1.4	1.2	0.0	2.2	2.1
Offshore, Night					
0.5-2.4	53.0	52.3	83.8	60.5	34.7
2.5-4.9	32.2	36.6	14.8	29.9	39.2
5.0-9.9	14.1	10.3	1.4	9.4	24.9
≥10.0	0.6	0.7	0.0	0.2	1.2

Table 6.7
Lakehurst, New Jersey
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	36.4	28.6	45.7	41.2	31.4
2.5-4.9	37.9	38.4	41.1	38.9	33.4
5.0-9.9	23.8	30.8	12.9	19.1	31.4
<u>>10.0</u>	1.8	2.1	0.3	0.9	3.9
All Directions, Day					
0.5-2.4	21.3	14.9	28.6	23.1	16.9
2.5-4.9	42.9	36.1	50.6	49.4	32.8
5.0-9.9	33.3	46.1	20.4	25.7	44.0
<u>>10.0</u>	2.5	2.9	0.5	1.8	6.4
All Directions, Night					
0.5-2.4	49.6	42.5	68.8	55.8	38.7
2.5-4.9	33.7	40.7	28.5	30.4	33.6
5.0-9.9	15.6	15.4	2.7	13.8	25.1
<u>>10.0</u>	1.2	1.4	0.0	0.1	2.6

Table 6.7 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	38.2	25.3	46.7	42.2	45.0
2.5-4.9	42.2	47.9	45.4	40.7	27.9
5.0-9.9	18.9	26.4	7.8	16.9	24.2
<u>>10.0</u>	0.6	0.4	0.1	0.2	2.8
Onshore, Day					
0.5-2.4	24.6	16.0	29.6	25.9	33.4
2.5-4.9	51.1	46.1	59.0	51.8	41.4
5.0-9.9	24.0	37.6	11.2	21.8	25.3
<u>>10.0</u>	0.2	0.3	0.1	0.4	0.0
Onshore, Night					
0.5-2.4	51.4	35.8	71.4	55.6	50.0
2.5-4.9	33.8	49.5	26.0	31.6	21.8
5.0-9.9	13.9	14.3	2.6	12.8	24.2
<u>>10.0</u>	1.0	0.5	0.0	0.0	4.0

(Table 6.7) (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	44.7	39.0	47.0	45.2	45.3
2.5-4.9	38.4	34.6	40.8	39.0	38.4
5.0-9.9	16.0	24.4	12.2	15.4	14.1
>10.0	30.9	2.0	30.0	0.3	2.2
Alongshore, Day					
0.5-2.4	27.9	23.3	32.3	24.9	26.1
2.5-4.9	46.7	38.8	46.1	55.1	49.1
5.0-9.9	24.1	35.3	21.5	19.1	21.1
>10.0	11.4	2.6	10.0	0.9	3.7
Alongshore, Night					
0.5-2.4	57.1	52.2	60.6	58.5	54.5
2.5-4.9	32.3	31.3	35.9	28.4	33.3
5.0-9.9	10.1	15.1	7.4	13.0	10.9
>10.0	00.6	1.4	0.0	0.0	1.3

Table 6.7 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	32.5	27.4	44.3	38.3	25.7
2.5-4.9	35.6	33.8	38.6	38.0	33.6
5.0-9.9	29.2	35.5	16.6	22.2	36.3
<u>>10.0</u>	2.8	3.3	0.6	1.5	4.4
Offshore, Day					
0.5-2.4	17.3	11.6	26.1	20.5	11.2
2.5-4.9	37.2	29.2	47.7	45.6	28.0
5.0-9.9	41.4	54.6	25.4	31.0	52.7
<u>>10.0</u>	4.2	4.6	0.9	3.0	8.1
Offshore, Night					
0.5-2.4	45.6	42.9	73.9	54.3	33.1
2.5-4.9	34.1	39.0	23.8	31.2	36.3
5.0-9.9	18.7	16.3	2.3	14.3	28.1
<u>>10.0</u>	1.5	1.8	0.0	0.2	2.5

Table 6.8
Atlantic City, New Jersey
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
All Directions, All Hours					
0.5-2.4	9.6	7.7	10.8	12.3	7.7
2.5-4.9	46.0	40.4	55.6	48.3	39.7
5.0-9.9	40.1	44.7	32.9	37.9	45.0
≥10.0	4.2	7.2	0.7	1.5	7.6
All Directions, Day					
0.5-2.4	5.6	4.6	7.4	5.7	4.1
2.5-4.9	33.9	24.8	42.8	40.5	25.5
5.0-9.9	54.0	58.9	48.9	51.4	58.1
≥10.0	6.4	11.7	1.0	2.4	12.3
All Directions, Night					
0.5-2.4	12.7	10.7	14.4	16.9	9.4
2.5-4.9	55.3	55.3	69.2	53.7	46.5
5.0-9.9	29.4	31.2	16.0	28.5	38.8
≥10.0	2.6	2.8	0.4	0.9	5.4

Table 6.8 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	8.5	8.2	7.5	9.1	10.6
2.5-4.9	48.0	42.4	51.9	49.3	45.0
5.0-9.9	41.6	45.1	40.0	40.7	41.1
≥10.0	1.9	4.2	0.6	0.8	3.3
Onshore, Day					
0.5-2.4	4.9	5.7	4.0	5.3	5.4
2.5-4.9	37.4	28.8	37.9	39.5	45.8
5.0-9.9	55.4	59.5	57.4	54.8	45.5
≥10.0	2.3	6.0	0.7	0.4	3.3
Onshore, Night					
0.5-2.4	12.3	11.7	11.7	12.8	14.1
2.5-4.9	59.5	60.2	69.4	58.6	44.3
5.0-9.9	26.8	26.3	18.4	27.4	38.4
≥10.0	1.4	1.9	0.4	1.2	3.3

Table 6.8 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	10.2	9.8	11.1	11.6	7.8
2.5-4.9	48.1	39.9	55.5	51.3	42.9
5.0-9.9	38.6	43.7	32.9	36.8	43.3
<u>>10.0</u>	3.1	6.6	0.5	0.3	6.0
Alongshore, Day					
0.5-2.4	8.2	8.6	10.3	6.8	5.3
2.5-4.9	34.4	24.2	36.8	46.3	26.3
5.0-9.9	52.3	53.9	51.7	46.1	62.1
<u>>10.0</u>	5.0	13.3	1.2	0.8	6.4
Alongshore, Night					
0.5-2.4	11.5	10.5	12.0	14.5	8.6
2.5-4.9	56.4	50.9	68.8	55.1	49.1
5.0-9.9	30.1	36.5	19.2	30.4	36.6
<u>>10.0</u>	2.0	2.1	0.0	0.0	5.7

Table 6.8 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	10.0	6.8	14.0	15.7	7.0
2.5-4.9	43.7	39.4	59.5	45.5	37.3
5.0-9.9	40.0	45.2	25.5	35.9	46.3
<u>>10.0</u>	6.3	8.6	1.0	2.9	9.4
	Offshore, Day				
0.5-2.4	4.9	2.6	9.3	5.4	3.4
2.5-4.9	31.1	22.3	51.5	36.6	18.2
5.0-9.9	53.7	61.1	38.1	51.4	61.3
<u>>10.0</u>	10.3	14.0	1.1	6.6	17.2
	Offshore, Night				
0.5-2.4	13.6	10.7	19.8	21.1	8.7
2.5-4.9	52.6	55.4	69.6	49.8	46.3
5.0-9.9	30.3	30.4	9.6	27.9	39.1
<u>>10.0</u>	3.5	3.5	0.9	1.2	5.8

Table 6.9
Wilmington, Delaware
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	17.0	11.4	22.3	21.1	13.6
2.5-4.9	50.5	45.9	56.3	54.2	45.8
5.0-9.9	31.1	40.3	21.3	24.4	38.1
<u>≥10.0</u>	1.3	2.4	0.1	0.3	2.5
All Directions, Day					
0.5-2.4	10.2	6.7	15.4	10.9	6.6
2.5-4.9	45.5	35.6	55.1	54.0	34.9
5.0-9.9	42.6	54.5	29.3	35.1	54.6
<u>≥10.0</u>	1.7	3.2	0.1	0.0	3.9
All Directions, Night					
0.5-2.4	22.1	15.7	29.5	27.7	17.0
2.5-4.9	54.2	55.2	57.5	54.3	50.9
5.0-9.9	22.6	27.4	12.9	17.5	30.3
<u>≥10.0</u>	1.1	1.6	0.1	0.5	1.8

Table 6.9 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	14.6	11.3	14.1	15.7	17.0
2.5-4.9	57.6	53.2	58.7	61.2	55.5
5.0-9.9	27.3	34.1	27.0	23.0	26.6
<u>>10.0</u>	0.6	1.3	0.2	0.2	0.9
Onshore, Day					
0.5-2.4	9.9	7.5	11.4	10.9	8.6
2.5-4.9	55.9	47.9	57.1	61.6	55.9
5.0-9.9	33.2	41.9	31.0	27.5	34.6
<u>>10.0</u>	0.9	2.8	0.5	0.0	0.9
Onshore, Night					
0.5-2.4	18.1	14.8	16.8	19.1	21.3
2.5-4.9	58.9	58.0	60.0	60.9	55.3
5.0-9.9	22.7	27.2	23.3	19.7	22.5
<u>>10.0</u>	0.3	0.0	0.0	0.3	0.9

Table 6.9 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	20.9	10.3	28.1	26.3	17.3
2.5-4.9	48.3	44.4	47.9	51.4	49.0
5.0-9.9	29.4	42.4	24.0	21.5	31.5
<u>>10.0</u>	1.3	2.9	0.0	0.9	2.2
Alongshore, Day					
0.5-2.4	11.9	5.7	18.4	8.7	11.9
2.5-4.9	45.1	35.6	46.9	52.9	44.1
5.0-9.9	42.3	55.7	34.7	38.4	44.1
<u>>10.0</u>	0.8	3.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	28.5	14.8	40.1	40.5	19.5
2.5-4.9	51.1	52.7	49.1	50.5	51.1
5.0-9.9	18.7	29.8	10.8	7.5	26.4
<u>>10.0</u>	1.8	2.8	0.0	1.5	3.0

Table 6.9 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	17.4	11.6	5.7	24.6	11.5
2.5-4.9	46.7	42.6	57.8	48.3	40.9
5.0-9.9	34.1	43.1	16.3	27.0	44.3
<u>>10.0</u>	1.8	2.8	0.1	0.2	3.2
Offshore, Day					
0.5-2.4	9.8	6.4	6.6	11.4	4.5
2.5-4.9	38.9	29.0	57.3	45.6	23.5
5.0-9.9	48.8	61.2	26.2	43.0	65.9
<u>>10.0</u>	2.5	3.4	0.0	0.0	6.0
Offshore, Night					
0.5-2.4	22.8	16.3	6.0	31.4	14.7
2.5-4.9	52.2	55.0	58.2	49.6	49.1
5.0-9.9	23.7	26.6	5.5	18.7	34.3
<u>>10.0</u>	1.3	2.2	0.3	0.3	1.9

Table 6.10
 Wallops Island, Virginia
 Percent of Hours in Each Wind Speed Class
 by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	14.0	10.1	16.4	15.0	14.8
2.5-4.9	39.4	36.6	46.3	40.5	34.5
5.0-9.9	41.8	47.9	35.6	39.9	43.5
<u>>10.0</u>	4.7	5.4	1.7	4.6	7.2
All Directions, Day					
0.5-2.4	11.8	8.1	14.2	11.6	13.7
2.5-4.9	36.7	31.6	46.3	39.5	25.0
5.0-9.9	46.5	54.7	38.4	43.6	51.4
<u>>10.0</u>	5.0	5.6	1.1	5.4	10.0
All Directions, Night					
0.5-2.4	17.6	13.0	24.6	20.3	15.9
2.5-4.9	43.7	44.8	46.5	42.2	42.9
5.0-9.9	34.4	37.3	25.1	34.1	36.4
<u>>10.0</u>	4.3	4.9	3.7	3.4	4.9

Table 6.10 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	14.6	10.1	14.9	12.4	27.3
2.5-4.9	48.6	51.7	52.1	48.9	32.3
5.0-9.9	35.3	37.3	32.0	37.5	35.6
<u>>10.0</u>	1.5	0.9	1.0	1.3	4.8
Onshore, Day					
0.5-2.4	12.9	10.1	11.5	10.6	30.7
2.5-4.9	49.4	47.8	53.9	52.1	29.6
5.0-9.9	36.6	40.9	34.4	36.6	35.0
<u>>10.0</u>	1.1	1.2	0.3	0.7	4.7
Onshore, Night					
0.5-2.4	18.8	9.0	28.6	17.2	21.7
2.5-4.9	46.2	62.5	44.6	40.5	36.3
5.0-9.9	32.4	28.5	22.8	39.6	37.1
<u>>10.0</u>	2.7	0.0	4.0	2.7	4.9

Table 6.10 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	13.0	10.2	13.3	16.4	12.6
2.5-4.9	37.4	34.3	38.8	35.4	39.3
5.0-9.9	45.4	47.9	46.1	40.9	46.8
<u>≥10.0</u>	4.2	7.7	1.9	7.3	1.4
Alongshore, Day					
0.5-2.4	11.9	8.3	14.0	13.6	11.7
2.5-4.9	28.7	24.3	32.8	26.4	31.9
5.0-9.9	53.0	56.3	50.5	48.7	55.6
<u>≥10.0</u>	6.4	11.1	2.6	11.3	0.8
Alongshore, Night					
0.5-2.4	14.3	11.1	11.1	19.7	13.9
2.5-4.9	46.1	42.4	52.3	46.0	44.7
5.0-9.9	37.6	42.8	36.6	31.6	39.8
<u>≥10.0</u>	2.1	3.7	0.0	2.6	1.5

Table 6.10 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	14.2	10.3	23.8	17.8	11.6
2.5-4.9	30.9	25.1	39.1	32.1	32.6
5.0-9.9	46.4	56.6	33.3	43.1	44.2
<u>>10.0</u>	8.5	7.9	3.8	7.1	11.6
Offshore, Day					
0.5-2.4	10.4	6.2	21.8	11.7	6.7
2.5-4.9	24.9	20.4	39.3	25.3	20.2
5.0-9.9	55.3	66.0	36.3	54.2	56.5
<u>>10.0</u>	9.4	7.4	2.5	8.7	16.6
Offshore, Night					
0.5-2.4	19.6	17.7	37.4	25.2	16.0
2.5-4.9	39.7	33.7	38.1	40.1	43.5
5.0-9.9	33.2	39.1	12.2	30.0	33.1
<u>>10.0</u>	7.5	9.5	12.2	4.8	7.3

Table 6.11
Norfolk, Virginia
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	11.6	8.2	15.8	15.3	7.2
2.5-4.9	48.1	46.5	57.0	47.1	41.7
5.0-9.9	38.4	42.9	27.1	35.8	47.6
<u>>10.0</u>	2.0	2.5	0.1	1.7	3.5
All Directions, Day					
0.5-2.4	5.9	5.4	8.4	5.8	2.8
2.5-4.9	43.3	39.3	52.7	43.7	34.3
5.0-9.9	48.5	51.7	38.8	48.4	59.1
<u>>10.0</u>	2.2	3.7	0.0	2.1	3.8
All Directions, Night					
0.5-2.4	15.8	10.6	23.3	21.6	9.4
2.5-4.9	51.6	52.9	61.2	49.4	45.3
5.0-9.9	30.8	35.1	15.1	27.5	42.0
<u>>10.0</u>	1.8	1.4	0.3	1.5	3.3

Table 6.11 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	16.7	12.4	20.2	17.6	15.1
2.5-4.9	55.3	56.3	58.3	51.6	55.5
5.0-9.9	27.2	30.5	21.3	29.5	28.2
<u>>10.0</u>	0.8	0.8	0.2	1.2	1.1
Onshore, Day					
0.5-2.4	8.1	8.0	10.8	5.5	4.8
2.5-4.9	50.7	49.7	55.9	46.8	49.2
5.0-9.9	40.0	40.4	33.3	45.6	44.7
<u>>10.0</u>	1.2	2.0	0.0	2.1	1.3
Onshore, Night					
0.5-2.4	22.7	15.3	29.2	25.2	19.6
2.5-4.9	58.5	61.5	60.1	54.6	58.2
5.0-9.9	18.3	23.2	10.3	19.5	21.1
<u>>10.0</u>	0.5	0.0	0.3	0.7	1.1

Table 6.11 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	9.7	7.3	12.1	13.0	6.6
2.5-4.9	46.3	41.3	55.3	47.5	41.1
5.0-9.9	41.9	48.1	32.6	36.1	50.3
<u>>10.0</u>	2.1	3.3	0.0	3.4	2.0
Alongshore, Day					
0.5-2.4	5.4	5.2	6.5	6.9	2.4
2.5-4.9	41.2	35.9	46.7	42.5	38.6
5.0-9.9	51.1	54.0	46.8	47.9	57.0
<u>>10.0</u>	2.3	4.8	0.0	2.7	2.0
Alongshore, Night					
0.5-2.4	12.6	8.9	17.1	17.4	8.4
2.5-4.9	50.1	45.8	63.0	51.1	42.4
5.0-9.9	35.4	43.2	19.9	27.6	47.1
<u>>10.0</u>	1.9	2.0	0.0	3.8	2.1

Table 6.11 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	8.2	4.8	15.1	13.9	3.9
2.5-4.9	42.0	43.4	57.8	37.0	35.4
5.0-9.9	46.7	48.7	26.8	48.8	54.2
<u>>10.0</u>	3.1	3.1	0.3	0.3	6.4
Offshore, Day					
0.5-2.4	4.1	2.7	7.8	4.4	2.1
2.5-4.9	38.2	35.4	57.0	39.6	23.7
5.0-9.9	54.4	58.0	35.2	55.1	67.2
<u>>10.0</u>	3.3	3.8	0.0	0.9	7.0
Offshore, Night					
0.5-2.4	11.6	7.0	25.8	20.1	4.9
2.5-4.9	45.1	52.4	59.2	34.7	41.8
5.0-9.9	40.2	38.2	14.2	45.1	47.1
<u>>10.0</u>	3.1	2.3	0.8	0.0	6.1

Table 6.12
Cape Hatteras, North Carolina
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	3.9	4.3	4.7	3.3	3.3
2.5-4.9	35.6	33.3	40.7	38.5	29.7
5.0-9.9	55.9	58.0	53.7	53.7	58.2
<u>>10.0</u>	4.5	4.3	0.8	4.4	8.7
All Directions, Day					
0.5-2.4	2.0	1.3	3.2	2.1	1.3
2.5-4.9	28.5	27.5	33.9	29.0	20.7
5.0-9.9	65.0	66.3	62.1	64.2	68.8
<u>>10.0</u>	4.5	4.8	0.8	4.7	9.2
All Directions, Night					
0.5-2.4	5.4	7.1	6.3	4.2	4.4
2.5-4.9	41.0	38.5	47.6	44.9	34.3
5.0-9.9	49.1	50.5	45.3	46.8	52.8
<u>>10.0</u>	4.6	3.9	0.8	4.2	8.4

Table 6.12 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	6.5	8.2	7.7	4.0	6.3
2.5-4.9	47.2	45.8	52.2	46.7	41.9
5.0-9.9	43.6	44.5	39.1	45.4	43.3
<u>>10.0</u>	2.8	1.5	0.9	3.8	8.5
Onshore, Day					
0.5-2.4	2.9	2.5	3.8	1.5	4.6
2.5-4.9	43.5	38.8	48.0	42.6	45.3
5.0-9.9	50.6	56.1	46.5	51.9	44.6
<u>>10.0</u>	2.9	2.5	1.7	3.9	5.6
Onshore, Night					
0.5-2.4	9.7	13.8	12.7	6.0	7.5
2.5-4.9	50.6	52.8	56.6	50.2	39.9
5.0-9.9	37.2	32.9	30.7	40.2	41.7
<u>>10.0</u>	2.6	0.5	0.0	3.7	10.9

Table 6.12 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	2.0	2.6	1.5	2.0	2.0
2.5-4.9	28.4	28.4	31.3	30.9	21.7
5.0-9.9	64.8	66.0	66.2	61.8	63.9
<u>>10.0</u>	4.8	3.0	0.9	5.4	12.4
Alongshore, Day					
0.5-2.4	1.2	0.6	0.8	2.6	1.0
2.5-4.9	20.4	21.9	23.0	19.3	14.4
5.0-9.9	74.1	74.8	75.7	72.1	71.3
<u>>10.0</u>	4.4	2.7	0.5	6.0	13.3
Alongshore, Night					
0.5-2.4	2.7	4.5	2.3	1.5	2.6
2.5-4.9	35.0	34.3	40.0	39.4	25.8
5.0-9.9	57.2	57.9	56.3	54.1	59.7
<u>>10.0</u>	5.1	3.3	1.4	4.9	11.9

Table 6.12 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	4.4	3.3	9.7	4.4	3.3
2.5-4.9	35.7	30.1	49.6	40.0	32.2
5.0-9.9	54.2	58.0	40.2	51.9	57.9
<u>>10.0</u>	5.7	8.7	0.4	3.7	6.5
	Offshore, Day				
0.5-2.4	2.5	1.1	11.0	2.1	0.0
2.5-4.9	25.8	25.5	42.7	27.5	16.9
5.0-9.9	65.5	63.3	46.3	67.2	75.9
<u>>10.0</u>	6.3	10.1	6.0	3.3	7.3
	Offshore, Night				
0.5-2.4	5.5	4.9	8.9	5.6	4.7
2.5-4.9	41.3	33.9	55.2	46.5	38.7
5.0-9.9	47.7	53.6	35.1	44.0	50.4
<u>>10.0</u>	5.4	7.6	0.7	3.9	6.2

Table 6.13
Wilmington, North Carolina
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	17.6	13.9	24.1	19.0	13.6
2.5-4.9	55.0	51.1	59.5	55.6	54.1
5.0-9.9	26.9	34.3	16.5	24.8	31.8
<u>>10.0</u>	0.5	0.7	0.0	0.6	0.6
All Directions, Day					
0.5-2.4	9.4	6.4	15.0	8.7	6.3
2.5-4.9	52.1	44.1	60.3	55.5	47.9
5.0-9.9	37.8	48.3	24.7	35.1	44.7
<u>>10.0</u>	0.7	1.2	0.0	0.7	1.1
All Directions, Night					
0.5-2.4	25.3	21.2	34.9	27.9	19.1
2.5-4.9	57.6	57.8	58.5	55.5	58.7
5.0-9.9	16.9	20.9	6.6	16.0	22.1
<u>>10.0</u>	0.2	0.1	0.0	0.6	0.1

Table 6.13 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Onshore, All Hours				
0.5-2.4	23.1	20.6	25.9	23.4	22.7
2.5-4.9	53.8	50.4	56.0	52.0	56.6
5.0-9.9	23.0	28.7	18.1	24.6	20.3
<u>>10.0</u>	0.1	0.3	0.0	0.0	0.4
	Onshore, Day				
0.5-2.4	9.3	7.9	12.8	7.6	7.8
2.5-4.9	58.5	52.5	59.1	59.7	64.2
5.0-9.9	31.9	39.0	28.1	32.7	27.2
<u>>10.0</u>	0.2	0.6	0.0	0.0	0.8
	Onshore, Night				
0.5-2.4	40.1	32.6	44.3	46.7	39.6
2.5-4.9	48.2	48.1	52.3	40.9	47.8
5.0-9.9	11.7	19.2	3.4	12.4	12.6
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.13 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	15.7	11.8	20.4	20.4	10.4
2.5-4.9	56.9	49.9	60.4	60.9	55.9
5.0-9.9	26.9	37.3	19.2	18.7	33.2
<u>>10.0</u>	0.4	1.0	0.0	0.0	0.5
Alongshore, Day					
0.5-2.4	9.6	6.0	13.7	12.5	5.7
2.5-4.9	46.8	37.0	55.2	52.5	40.8
5.0-9.9	42.6	54.6	31.2	35.1	52.1
<u>>10.0</u>	1.0	2.4	0.0	0.0	1.5
Alongshore, Night					
0.5-2.4	19.7	15.7	25.6	24.8	13.0
2.5-4.9	63.5	59.5	64.4	65.6	63.8
5.0-9.9	16.8	24.8	10.0	9.6	23.2
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.13 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	14.7	10.3	25.6	14.4	12.0
2.5-4.9	54.5	52.8	63.2	54.2	51.0
5.0-9.9	30.0	36.3	11.2	29.7	36.3
<u>>10.0</u>	0.8	0.6	0.0	1.7	0.8
	Offshore, Day				
0.5-2.4	9.3	5.4	19.2	7.7	6.1
2.5-4.9	50.0	43.4	66.3	52.7	41.0
5.0-9.9	39.6	50.4	14.5	37.6	51.5
<u>>10.0</u>	1.0	0.8	0.0	2.0	1.5
	Offshore, Night				
0.5-2.4	20.1	16.2	36.4	19.6	16.5
2.5-4.9	59.0	64.1	58.0	55.3	58.4
5.0-9.9	20.2	19.4	5.5	23.6	24.8
<u>>10.0</u>	0.6	0.3	0.0	1.6	0.3

Table 6.14
Charleston, South Carolina
Percent of Hours, in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	20.1	16.5	22.2	23.4	18.5
2.5-4.9	52.6	49.3	57.0	53.9	50.1
5.0-9.9	26.8	33.2	20.8	22.6	30.5
<u>>10.0</u>	0.5	1.0	0.0	0.1	1.0
All Directions, Day					
0.5-2.4	9.5	6.6	13.3	7.6	9.9
2.5-4.9	47.8	41.8	55.0	51.0	42.0
5.0-9.9	42.0	50.4	31.7	41.3	46.4
<u>>10.0</u>	0.7	1.2	0.0	0.2	1.7
All Directions, Night					
0.5-2.4	28.6	24.9	31.5	34.2	24.1
2.5-4.9	56.4	55.7	59.1	55.9	55.4
5.0-9.9	14.7	18.6	9.4	9.8	20.1
<u>>10.0</u>	0.4	0.8	0.0	0.1	0.5

Table 6.14 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	21.2	19.9	21.6	21.3	23.6
2.5-4.9	50.3	44.8	52.0	54.1	52.0
5.0-9.9	28.1	34.7	26.4	24.3	24.0
<u>>10.0</u>	0.4	0.7	0.0	0.3	0.5
Onshore, Day					
0.5-2.4	7.9	6.0	11.6	4.7	9.2
2.5-4.9	40.4	30.5	40.9	47.3	45.9
5.0-9.9	51.4	62.6	47.5	48.1	44.2
<u>>10.0</u>	0.4	0.9	0.0	0.0	0.7
Onshore, Night					
0.5-2.4	30.7	29.5	29.5	36.3	31.1
2.5-4.9	57.3	54.6	59.8	60.1	55.0
5.0-9.9	11.7	15.3	10.7	3.1	13.5
<u>>10.0</u>	0.3	0.5	0.0	0.5	0.4

Table 6.14 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	16.4	12.0	16.5	19.4	17.5
2.5-4.9	58.9	58.8	62.9	61.2	53.0
5.0-9.9	24.4	28.8	20.6	19.5	28.4
<u>>10.0</u>	0.4	0.4	0.0	0.0	1.1
Alongshore, Day					
0.5-2.4	9.7	7.5	9.7	9.4	12.3
2.5-4.9	52.7	52.0	60.5	57.1	41.5
5.0-9.9	36.9	39.7	29.8	33.5	44.3
<u>>10.0</u>	0.7	0.9	0.0	0.0	1.9
Alongshore, Night					
0.5-2.4	22.3	15.8	24.0	26.8	21.4
2.5-4.9	64.1	64.8	65.6	65.0	61.8
5.0-9.9	13.4	19.4	10.5	8.3	16.3
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.5

Table 6.14 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	21.5	16.3	27.1	27.5	15.5
2.5-4.9	51.0	48.0	60.0	49.9	47.1
5.0-9.9	26.8	34.0	13.0	22.5	36.2
<u>>10.0</u>	0.8	1.7	0.0	0.1	1.2
Offshore, Day					
0.5-2.4	10.9	7.0	17.4	10.1	8.8
2.5-4.9	51.2	46.7	65.6	50.4	40.5
5.0-9.9	36.9	44.6	17.0	39.1	48.6
<u>>10.0</u>	1.0	1.6	0.0	0.4	2.1
Offshore, Night					
0.5-2.4	30.4	25.9	43.1	36.7	20.2
2.5-4.9	50.8	49.6	50.7	49.9	51.8
5.0-9.9	18.2	22.9	6.1	13.4	27.4
<u>>10.0</u>	0.5	1.6	0.0	0.0	0.6

Table 6.15
Brunswick, Georgia
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	45.3	40.9	52.9	43.0	45.1
2.5-4.9	43.7	45.8	42.8	44.7	41.2
5.0-9.9	10.9	13.2	4.1	12.3	13.6
<u>>10.0</u>	0.1	0.1	0.1	0.0	0.1
All Directions, Day					
0.5-2.4	31.3	24.8	43.0	23.6	32.9
2.5-4.9	52.6	54.7	51.2	55.7	48.7
5.0-9.9	16.0	20.5	5.7	20.7	18.4
<u>>10.0</u>	0.0	0.0	0.2	0.0	0.0
All Directions, Night					
0.5-2.4	59.9	57.3	66.7	62.1	55.7
2.5-4.9	34.6	36.6	31.3	34.3	34.7
5.0-9.9	5.5	5.9	2.1	3.6	9.4
<u>>10.0</u>	0.1	0.2	0.0	0.0	0.2

Table 6.15 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	39.6	38.4	39.4	35.9	46.8
2.5-4.9	48.1	48.7	53.0	47.9	40.9
5.0-9.9	12.2	12.9	7.7	16.2	12.0
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.3
Onshore, Day					
0.5-2.4	24.0	18.9	27.9	16.1	37.6
2.5-4.9	59.1	60.1	61.8	59.7	51.1
5.0-9.9	16.9	21.0	10.3	24.2	11.3
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Onshore, Night					
0.5-2.4	60.9	62.4	58.0	65.7	57.2
2.5-4.9	33.1	34.5	38.3	30.3	30.1
5.0-9.9	5.8	3.0	3.7	4.1	12.1
<u>>10.0</u>	0.2	0.0	0.0	0.0	0.6

Table 6.15 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	45.3	34.8	63.3	39.4	45.8
2.5-4.9	44.9	51.4	34.4	48.7	42.9
5.0-9.9	9.6	13.8	1.8	11.9	11.3
≥10.0	0.1	0.0	0.5	0.0	0.0
Alongshore, Day					
0.5-2.4	33.8	26.7	54.2	26.3	31.1
2.5-4.9	51.3	58.0	42.1	51.0	52.8
5.0-9.9	14.6	15.3	2.5	22.6	16.1
≥10.0	0.2	0.0	1.1	0.0	0.0
Alongshore, Night					
0.5-2.4	53.3	41.3	69.6	48.4	55.9
2.5-4.9	40.6	47.4	29.0	47.1	36.2
5.0-9.9	6.1	11.3	1.4	4.4	8.0
≥10.0	0.0	0.0	0.0	0.0	0.0

Table 6.15 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	50.1	45.4	59.8	54.7	44.2
2.5-4.9	39.6	41.1	37.8	37.8	40.3
5.0-9.9	10.3	13.3	2.4	7.5	15.5
<u>>10.0</u>	0.1	0.2	0.0	0.0	0.0
	Offshore, Day				
0.5-2.4	37.3	30.3	52.3	34.5	31.4
2.5-4.9	47.2	48.1	44.7	52.1	45.1
5.0-9.9	15.5	21.6	3.0	13.4	23.5
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
	Offshore, Night				
0.5-2.4	63.4	61.1	72.4	70.7	54.6
2.5-4.9	31.7	33.9	26.4	26.9	36.7
5.0-9.9	4.9	4.7	1.3	2.4	8.7
<u>>10.0</u>	0.1	0.3	0.0	0.0	0.0

Table 6.16
Cape Kennedy, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	34.9	27.9	40.0	39.8	32.4
2.5-4.9	42.1	41.4	46.6	41.8	38.6
5.0-9.9	22.7	30.3	13.4	18.3	28.3
<u>≥10.0</u>	0.3	0.4	0.0	0.1	0.7
All Directions, Day					
0.5-2.4	15.3	11.7	22.0	14.8	11.7
2.5-4.9	50.4	42.6	56.3	58.3	44.3
5.0-9.9	33.9	45.3	21.7	26.7	43.5
<u>≥10.0</u>	0.3	0.5	0.0	0.2	0.6
All Directions, Night					
0.5-2.4	50.1	41.0	58.9	56.4	45.7
2.5-4.9	35.6	40.4	36.4	30.8	35.0
5.0-9.9	14.0	18.2	4.7	12.8	18.6
<u>≥10.0</u>	0.3	0.4	0.0	0.0	0.7

Table 6.16 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	31.5	27.1	32.1	32.4	35.6
2.5-4.9	47.8	48.5	53.2	46.4	42.0
5.0-9.9	20.4	24.2	14.7	21.2	21.1
≥10.0	0.3	0.2	0.0	0.0	1.3
Onshore, Day					
0.5-2.4	13.3	9.9	14.7	13.3	16.5
2.5-4.9	59.1	54.3	64.1	60.9	54.2
5.0-9.9	27.4	35.4	21.2	25.9	28.7
≥10.0	0.2	0.4	0.0	0.0	0.5
Onshore, Night					
0.5-2.4	50.9	46.8	62.5	48.6	51.4
2.5-4.9	35.7	41.8	34.1	34.2	31.8
5.0-9.9	13.0	11.4	3.4	17.2	15.0
≥10.0	0.4	0.0	0.0	0.0	1.9

Table 6.16 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	32.4	27.4	38.3	42.4	26.6
2.5-4.9	38.8	36.9	45.6	35.9	37.6
5.0-9.9	28.5	35.6	16.0	21.3	35.2
<u>>10.0</u>	0.3	0.2	0.0	0.3	0.6
Alongshore, Day					
0.5-2.4	11.3	9.6	20.1	9.8	7.4
2.5-4.9	42.1	35.0	49.6	53.4	36.9
5.0-9.9	46.3	55.4	30.3	35.9	55.2
<u>>10.0</u>	0.3	0.0	0.0	0.8	0.5
Alongshore, Night					
0.5-2.4	46.5	39.5	52.2	60.1	39.6
2.5-4.9	36.7	38.1	42.6	26.5	38.4
5.0-9.9	16.6	22.0	5.3	13.4	21.4
<u>>10.0</u>	0.3	0.3	0.0	0.0	0.7

Table 6.16 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	42.5	31.0	51.8	54.7	37.5
2.5-4.9	37.5	36.5	38.9	37.0	37.0
5.0-9.9	19.7	31.3	9.4	8.3	25.2
<u>>10.0</u>	0.3	1.1	0.0	0.0	0.3
Offshore, Day					
0.5-2.4	24.3	19.8	37.9	28.3	13.2
2.5-4.9	43.1	30.3	47.5	53.7	44.0
5.0-9.9	32.1	48.8	14.6	18.0	42.0
<u>>10.0</u>	0.5	1.0	0.0	0.0	0.8
Offshore, Night					
0.5-2.4	52.9	38.2	62.2	66.2	49.2
2.5-4.9	34.2	40.4	32.7	29.7	33.7
5.0-9.9	12.7	20.3	5.1	4.1	17.1
<u>>10.0</u>	0.2	1.1	0.0	0.0	0.0

Table 6.17
Orlando, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	14.8	11.5	18.3	15.9	13.4
2.5-4.9	53.1	47.7	61.0	55.3	48.3
5.0-9.9	31.6	39.7	20.7	28.8	37.4
<u>>10.0</u>	0.5	1.1	0.0	0.1	0.9
All Directions, Day					
0.5-2.4	8.1	6.7	13.7	5.4	5.3
2.5-4.9	44.1	39.5	54.6	41.5	38.5
5.0-9.9	46.9	52.2	31.7	52.9	54.5
<u>>10.0</u>	0.8	1.6	0.0	0.2	1.7
All Directions, Night					
0.5-2.4	20.2	15.6	23.2	23.3	19.0
2.5-4.9	60.5	54.9	68.0	64.8	55.2
5.0-9.9	19.0	28.9	8.9	11.9	25.4
<u>>10.0</u>	0.3	0.7	0.0	0.0	0.4

Table 6.17 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	15.2	11.4	18.1	15.5	15.7
2.5-4.9	53.2	49.0	56.8	54.1	51.7
5.0-9.9	31.5	39.6	25.1	30.4	31.9
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.6
Onshore, Day					
0.5-2.4	7.8	8.0	13.0	3.9	7.6
2.5-4.9	40.0	38.9	48.0	33.6	41.7
5.0-9.9	51.9	53.1	39.1	62.5	49.2
<u>>10.0</u>	0.3	0.0	0.0	0.0	1.5
Onshore, Night					
0.5-2.4	21.0	14.3	23.7	23.8	21.4
2.5-4.9	63.5	57.4	63.6	68.5	58.5
5.0-9.9	15.4	28.3	10.7	7.7	20.2
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.17 (continued)

Wind Speed (msec^{-1})	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	16.7	16.9	21.2	13.6	15.1
2.5-4.9	55.3	51.5	63.8	58.7	48.0
5.0-9.9	27.8	31.3	15.0	27.7	36.3
<u>>10.0</u>	0.2	0.3	0.0	0.0	0.6
Alongshore, Day					
0.5-2.4	10.0	11.6	17.1	5.6	2.3
2.5-4.9	49.9	43.4	57.7	52.5	44.5
5.0-9.9	40.1	45.0	25.3	41.9	53.1
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	21.0	20.9	25.0	17.8	21.2
2.5-4.9	58.7	57.5	69.7	62.0	49.8
5.0-9.9	19.8	21.0	5.3	20.3	28.2
<u>>10.0</u>	0.4	0.6	0.0	0.0	0.8

Table 6.17 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	12.8	9.1	16.5	19.4	9.3
2.5-4.9	51.3	43.9	63.3	53.7	44.4
5.0-9.9	34.7	44.7	20.2	26.6	44.8
<u>>10.0</u>	1.2	2.4	0.0	0.4	1.6
	Offshore, Day				
0.5-2.4	7.3	3.3	12.6	8.6	4.7
2.5-4.9	45.3	38.8	50.6	50.2	32.2
5.0-9.9	45.5	54.4	28.8	40.4	60.3
<u>>10.0</u>	1.9	3.5	0.0	0.8	2.8
	Offshore, Night				
0.5-2.4	18.4	14.8	21.5	29.6	13.3
2.5-4.9	57.5	48.7	69.3	57.0	56.6
5.0-9.9	23.5	35.3	9.2	13.4	29.7
<u>>10.0</u>	0.6	1.2	0.0	0.0	0.4

Table 6.18
Miami, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	16.8	9.9	28.1	14.4	14.8
2.5-4.9	46.5	42.2	47.2	52.0	44.4
5.0-9.9	36.1	47.4	24.5	33.2	39.4
<u>>10.0</u>	0.6	0.5	0.2	0.4	1.4
All Directions, Day					
0.5-2.4	8.5	4.5	18.2	3.5	5.0
2.5-4.9	35.0	26.8	44.6	36.5	30.2
5.0-9.9	55.6	67.8	36.7	59.1	62.8
<u>>10.0</u>	1.0	0.9	0.4	0.9	2.0
All Directions, Night					
0.5-2.4	22.9	14.2	38.0	20.9	20.7
2.5-4.9	54.9	54.5	49.8	61.4	53.0
5.0-9.9	21.8	31.2	12.2	17.5	25.3
<u>>10.0</u>	0.3	0.1	0.0	0.1	1.0

Table 6.18 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	9.4	4.9	14.6	9.5	9.1
2.5-4.9	44.9	39.7	51.3	46.9	42.1
5.0-9.9	45.3	55.3	33.8	43.1	48.1
<u>>10.0</u>	0.3	0.1	0.2	0.5	0.7
Onshore, Day					
0.5-2.4	3.0	1.6	6.1	1.4	1.8
2.5-4.9	32.4	23.3	46.2	29.5	28.0
5.0-9.9	64.0	74.9	47.3	68.0	69.6
<u>>10.0</u>	0.6	0.2	0.4	1.1	0.6
Onshore, Night					
0.5-2.4	15.1	8.1	25.1	15.5	14.5
2.5-4.9	56.1	54.3	57.6	59.9	52.6
5.0-9.9	28.7	37.6	17.3	24.6	32.0
<u>>10.0</u>	0.2	0.0	0.0	0.0	0.8

Table 6.18 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	24.1	15.9	41.4	19.4	20.1
2.5-4.9	47.5	47.7	39.3	52.5	48.6
5.0-9.9	27.1	34.7	19.3	28.1	26.7
<u>>10.0</u>	1.3	1.7	0.0	0.0	4.6
Alongshore, Day					
0.5-2.4	16.2	8.2	33.3	6.9	19.9
2.5-4.9	36.9	27.4	40.2	47.3	30.5
5.0-9.9	44.5	60.4	26.5	45.8	42.3
<u>>10.0</u>	2.4	4.1	0.0	0.0	7.4
Alongshore, Night					
0.5-2.4	29.8	21.4	46.6	29.0	20.2
2.5-4.9	55.3	64.6	39.4	57.4	60.7
5.0-9.9	14.4	14.0	14.0	13.6	16.7
<u>>10.0</u>	0.5	0.0	0.0	0.0	2.4

Table 6.18 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	28.8	19.1	55.7	22.6	21.9
2.5-4.9	49.2	49.1	40.5	60.6	46.6
5.0-9.9	21.2	31.2	3.6	16.4	30.0
<u>≥10.0</u>	0.8	0.6	0.2	0.4	1.5
	Offshore, Day				
0.5-2.4	20.3	11.2	50.5	8.2	5.9
2.5-4.9	41.4	38.7	42.3	52.9	33.9
5.0-9.9	37.0	49.0	6.6	38.0	57.2
<u>≥10.0</u>	1.4	1.2	0.6	0.8	3.0
	Offshore, Night				
0.5-2.4	33.2	24.0	59.8	27.7	28.5
2.5-4.9	53.1	55.6	39.1	63.3	51.9
5.0-9.9	13.2	20.1	1.2	8.8	18.7
<u>≥10.0</u>	0.5	0.3	0.0	0.3	0.9

Table 6.19
Fort Myers, Florida
Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	All Directions, All Hours				
0.5-2.4	15.2	9.7	21.5	17.8	12.1
2.5-4.9	55.5	51.0	60.5	57.0	53.7
5.0-9.9	29.1	39.2	17.9	25.2	33.7
<u>>10.0</u>	0.2	0.1	0.1	0.0	0.5
	All Directions, Day				
0.5-2.4	5.8	3.0	11.0	4.8	3.4
2.5-4.9	46.4	34.4	60.3	48.3	41.0
5.0-9.9	47.4	62.4	28.5	46.9	54.5
<u>>10.0</u>	0.3	0.2	0.1	0.0	1.1
	All Directions, Night				
0.5-2.4	23.2	15.6	33.0	27.2	18.2
2.5-4.9	63.1	65.4	60.8	63.4	62.5
5.0-9.9	13.7	19.0	6.2	9.4	19.2
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.1

Table 6.19^a ((continued))

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	7.5	3.0	10.2	12.8	8.3
2.5-4.9	51.8	46.7	57.6	59.3	49.6
5.0-9.9	40.2	50.2	31.9	28.0	40.4
<u>>10.0</u>	0.5	0.2	0.3	0.0	1.7
Onshore, Day					
0.5-2.4	3.0	1.1	4.8	3.3	3.7
2.5-4.9	41.4	28.0	52.0	58.9	34.7
5.0-9.9	54.8	70.6	42.8	37.9	58.6
<u>>10.0</u>	0.8	0.3	0.4	0.0	3.0
Onshore, Night					
0.5-2.4	14.5	5.4	22.3	32.0	14.0
2.5-4.9	67.7	69.6	69.7	60.3	67.9
5.0-9.9	17.8	25.0	8.0	7.6	18.1
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.19 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	15.6	11.7	25.0	16.5	10.8
2.5-4.9	55.9	56.4	59.4	60.3	49.8
5.0-9.9	28.4	32.0	15.6	23.2	39.0
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.3
Alongshore, Day					
0.5-2.4	6.5	6.0	12.6	4.5	2.6
2.5-4.9	51.8	45.9	64.5	56.7	39.8
5.0-9.9	41.4	48.1	22.9	38.8	56.6
<u>>10.0</u>	0.2	0.0	0.0	0.0	0.9
Alongshore, Night					
0.5-2.4	22.5	15.1	36.9	27.8	16.4
2.5-4.9	59.1	62.7	54.5	63.1	57.9
5.0-9.9	18.4	22.2	8.6	9.1	25.8
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.19 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Offshore, All Hours					
0.5-2.4	18.8	15.2	26.4	19.0	14.0
2.5-4.9	57.4	54.2	62.5	56.2	57.1
5.0-9.9	23.8	30.6	11.1	24.9	28.8
≥10.0	0.0	0.0	0.0	0.0	0.1
Offshore, Day					
0.5-2.4	7.6	4.0	15.8	5.5	3.4
2.5-4.9	48.6	38.6	65.4	42.7	45.3
5.0-9.9	43.8	57.4	18.8	51.8	51.3
≥10.0	0.0	0.0	0.0	0.0	0.0
Offshore, Night					
0.5-2.4	26.0	23.0	35.0	26.6	19.5
2.5-4.9	63.1	65.3	60.1	63.8	63.4
5.0-9.9	10.9	11.8	4.9	9.6	16.9
≥10.0	0.1	0.0	0.0	0.0	0.2

Table 6.20
Tampa, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	15.9	12.3	16.3	15.9	18.9
2.5-4.9	55.9	49.2	62.6	60.5	51.3
5.0-9.9	27.8	37.4	21.0	23.5	29.0
<u>>10.0</u>	0.5	1.1	0.1	0.1	0.7
All Directions, Day					
0.5-2.4	5.2	3.5	8.7	5.5	2.6
2.5-4.9	50.2	39.9	59.3	52.3	48.6
5.0-9.9	43.8	58.1	31.8	42.2	47.3
<u>>10.0</u>	0.8	1.6	0.1	0.0	1.5
All Directions, Night					
0.5-2.4	23.9	19.6	23.8	22.5	29.3
2.5-4.9	60.2	56.9	65.7	65.7	53.0
5.0-9.9	15.7	22.8	10.5	11.7	17.4
<u>>10.0</u>	0.3	0.7	0.0	0.1	0.2

Table 6.20 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	10.6	7.1	7.5	15.6	17.0
2.5-4.9	52.8	44.9	59.6	62.2	49.9
5.0-9.9	35.7	46.1	33.0	22.1	31.6
<u>>10.0</u>	1.0	1.9	0.0	0.0	1.4
Onshore, Day					
0.5-2.4	2.8	0.7	3.9	4.7	3.0
2.5-4.9	50.0	36.0	54.0	65.3	53.3
5.0-9.9	46.0	61.0	42.1	30.0	41.7
<u>>10.0</u>	1.2	2.3	0.0	0.0	2.0
Onshore, Night					
0.5-2.4	21.7	14.3	13.9	39.0	33.9
2.5-4.9	56.8	55.3	69.7	55.8	45.9
5.0-9.9	20.8	28.8	16.4	5.3	19.5
<u>>10.0</u>	0.7	1.5	0.0	0.0	0.7

Table 6.20 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	14.5	13.5	15.6	16.2	13.3
2.5-4.9	56.8	48.2	68.7	63.9	50.5
5.0-9.9	27.9	37.3	15.4	19.5	34.8
<u>>10.0</u>	0.8	1.0	0.3	0.4	1.4
Alongshore, Day					
0.5-2.4	7.3	3.9	13.1	9.2	2.3
2.5-4.9	47.7	35.7	63.3	56.7	38.2
5.0-9.9	43.7	58.9	22.9	34.1	56.8
<u>>10.0</u>	1.4	1.5	0.6	0.0	2.8
Alongshore, Night					
0.5-2.4	19.5	21.0	17.7	19.9	19.4
2.5-4.9	63.1	56.9	73.7	68.9	58.1
5.0-9.9	16.9	21.3	8.6	10.5	22.1
<u>>10.0</u>	0.5	0.7	0.0	0.7	0.4

Table 6.20 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	19.9	18.2	24.4	16.1	23.1
2.5-4.9	57.4	55.6	62.3	59.2	52.3
5.0-9.9	22.7	26.2	13.2	24.8	24.6
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Offshore, Day					
0.5-2.4	6.8	7.5	13.2	4.7	2.4
2.5-4.9	52.0	50.9	65.2	44.8	50.5
5.0-9.9	41.2	41.6	21.6	50.5	47.1
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Offshore, Night					
0.5-2.4	26.7	24.4	31.0	21.5	32.5
2.5-4.9	60.2	58.5	60.7	65.9	53.0
5.0-9.9	13.1	17.1	8.4	12.6	14.4
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.21
Tallahassee, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	29.1	24.0	40.1	29.8	22.6
2.5-4.9	50.4	48.9	49.7	51.3	51.6
5.0-9.9	20.4	27.1	10.1	18.8	25.6
<u>>10.0</u>	0.1	0.1	0.2	0.1	0.2
All Directions, Day					
0.5-2.4	15.0	11.4	24.0	11.7	11.7
2.5-4.9	52.0	45.3	58.2	55.8	48.1
5.0-9.9	32.9	43.1	17.6	32.4	40.0
<u>>10.0</u>	0.1	0.2	0.2	0.0	0.2
All Directions, Night					
0.5-2.4	41.5	35.5	57.3	44.0	31.2
2.5-4.9	48.9	52.2	40.5	47.9	54.3
5.0-9.9	9.4	12.3	2.0	8.0	14.4
<u>>10.0</u>	0.1	0.0	0.2	0.2	0.2

Table 6.21 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	28.6	20.6	39.8	33.4	22.9
2.5-4.9	47.4	45.0	46.7	47.5	51.5
5.0-9.9	23.8	34.3	13.5	18.8	25.2
<u>>10.0</u>	0.2	0.2	0.0	0.3	0.5
Onshore, Day					
0.5-2.4	15.3	8.8	25.0	15.6	11.6
2.5-4.9	46.7	37.5	49.8	56.7	49.6
5.0-9.9	37.7	53.4	25.1	27.6	38.4
<u>>10.0</u>	0.2	0.4	0.0	0.0	0.4
Onshore, Night					
0.5-2.4	41.6	32.1	54.8	54.2	32.7
2.5-4.9	48.0	52.5	43.4	37.0	52.6
5.0-9.9	10.3	15.5	1.7	7.9	14.1
<u>>10.0</u>	0.2	0.0	0.0	0.8	0.6

Table 6.21 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	32.3	29.6	40.6	27.8	29.6
2.5-4.9	53.7	58.3	51.5	50.7	57.2
5.0-9.9	13.8	12.1	7.1	21.5	13.2
<u>>10.0</u>	0.2	0.0	0.7	0.0	0.0
Alongshore, Day					
0.5-2.4	16.2	15.8	23.4	7.7	18.3
2.5-4.9	59.5	62.2	60.8	53.9	62.1
5.0-9.9	24.1	21.9	14.8	38.4	19.6
<u>>10.0</u>	0.3	0.0	0.9	0.0	0.0
Alongshore, Night					
0.5-2.4	44.0	39.2	53.3	41.0	40.0
2.5-4.9	49.5	55.5	44.7	48.3	53.1
5.0-9.9	6.3	5.3	1.4	10.7	7.0
<u>>10.0</u>	0.2	0.0	0.6	0.0	0.0

Table 6.21 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	28.2	26.0	39.8	29.4	20.8
2.5-4.9	51.5	49.6	52.3	53.2	49.9
5.0-9.9	20.4	24.3	7.8	17.4	29.3
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Offshore, Day					
0.5-2.4	14.4	13.2	22.7	11.7	10.1
2.5-4.9	53.7	49.0	66.3	56.2	42.8
5.0-9.9	31.9	37.8	11.1	32.1	47.0
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Offshore, Night					
0.5-2.4	40.4	38.4	66.1	42.3	28.2
2.5-4.9	49.4	50.2	30.9	51.0	55.0
5.0-9.9	10.2	11.4	3.0	6.8	16.7
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.22
Pensacola, Florida
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	15.8	12.1	22.0	16.4	13.0
2.5-4.9	55.3	49.0	58.8	62.3	51.0
5.0-9.9	28.7	38.5	19.1	21.3	35.7
<u>>10.0</u>	0.2	0.4	0.1	0.0	0.4
All Directions, Day					
0.5-2.4	8.5	5.1	13.4	8.4	6.8
2.5-4.9	49.5	40.2	56.1	54.9	46.6
5.0-9.9	41.6	53.9	30.3	36.7	46.2
<u>>10.0</u>	0.4	0.9	0.2	0.0	0.4
All Directions, Night					
0.5-2.4	21.3	17.6	30.2	21.5	17.1
2.5-4.9	59.6	55.9	61.4	67.1	53.9
5.0-9.9	19.0	26.5	8.4	11.4	28.7
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.4

Table 6.22 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	10.2	5.8	11.6	13.4	12.8
2.5-4.9	52.1	46.3	57.5	58.0	49.9
5.0-9.9	37.4	47.2	30.9	28.6	37.0
<u>>10.0</u>	0.2	0.6	0.0	0.0	0.3
Onshore, Day					
0.5-2.4	4.4	2.4	3.4	6.3	6.4
2.5-4.9	46.2	34.6	53.0	53.5	48.4
5.0-9.9	49.0	61.8	43.5	40.1	45.2
<u>>10.0</u>	0.4	1.3	0.0	0.0	0.0
Onshore, Night					
0.5-2.4	16.7	9.2	23.7	26.4	18.8
2.5-4.9	58.3	57.4	63.5	61.8	51.2
5.0-9.9	24.9	33.4	12.8	11.8	29.5
<u>>10.0</u>	0.1	0.0	0.0	0.0	0.5

Table 6.22 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	18.8	21.8	23.3	18.0	13.4
2.5-4.9	62.8	58.6	62.9	65.7	60.6
5.0-9.9	18.4	19.7	13.8	16.3	25.9
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Day					
0.5-2.4	13.6	14.9	19.3	11.7	7.2
2.5-4.9	58.8	57.0	60.1	59.9	55.1
5.0-9.9	27.5	28.1	20.6	28.4	37.7
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	21.8	25.1	26.4	21.6	16.5
2.5-4.9	65.2	59.5	64.9	68.8	63.3
5.0-9.9	13.0	15.3	8.7	9.6	20.1
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.22 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	19.7	17.3	37.2	18.3	12.9
2.5-4.9	53.0	47.4	56.9	61.3	46.1
5.0-9.9	27.0	35.1	5.7	20.5	40.3
<u>>10.0</u>	0.3	0.2	0.2	0.0	0.8
Offshore, Day					
0.5-2.4	11.1	6.2	29.3	8.9	6.9
2.5-4.9	47.5	42.3	58.6	52.6	40.7
5.0-9.9	40.8	51.0	11.5	38.5	51.4
<u>>10.0</u>	0.5	0.5	0.5	0.0	1.0
Offshore, Night					
0.5-2.4	24.7	24.7	42.8	22.6	16.5
2.5-4.9	56.1	50.6	55.6	65.3	49.3
5.0-9.9	19.0	24.7	1.6	12.2	33.6
<u>>10.0</u>	0.2	0.0	0.0	0.0	0.6

Table 6.23
Mobile, Alabama
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	15.5	10.5	22.8	20.1	9.7
2.5-4.9	52.9	46.3	62.5	54.3	48.7
5.0-9.9	30.8	42.0	14.5	25.4	40.3
<u>>10.0</u>	0.8	1.2	0.2	0.2	1.4
All Directions, Day					
0.5-2.4	9.2	5.3	14.3	10.4	6.0
2.5-4.9	45.6	32.6	59.8	47.2	40.7
5.0-9.9	44.1	59.8	25.6	42.0	51.5
<u>>10.0</u>	1.2	2.2	0.3	0.4	1.9
All Directions, Night					
0.5-2.4	20.0	14.1	30.1	26.8	12.0
2.5-4.9	58.1	55.6	64.8	58.8	53.7
5.0-9.9	21.4	29.8	5.0	14.3	33.3
<u>>10.0</u>	0.5	0.6	0.1	0.1	1.0

Table 6.23 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	14.0	8.9	18.6	23.1	11.1
2.5-4.9	51.9	43.9	61.9	53.6	51.0
5.0-9.9	33.1	45.4	19.4	22.9	36.6
<u>>10.0</u>	1.0	1.8	0.0	0.4	1.3
Onshore, Day					
0.5-2.4	0.2	3.9	10.5	11.0	8.0
2.5-4.9	40.3	26.3	55.3	45.3	38.9
5.0-9.9	49.8	66.3	34.2	42.9	50.3
<u>>10.0</u>	1.7	3.6	0.0	0.0	2.1
Onshore, Night					
0.5-2.4	17.9	12.0	24.5	31.6	12.5
2.5-4.9	59.5	54.8	66.7	59.1	58.7
5.0-9.9	22.0	32.5	8.8	8.5	28.0
<u>>10.0</u>	0.5	0.7	0.0	0.8	0.8

Table 6.23 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	19.9	14.7	28.2	20.0	10.3
2.5-4.9	56.5	54.6	58.6	55.0	57.2
5.0-9.9	23.2	30.2	13.0	24.9	31.9
<u>>10.0</u>	0.3	0.5	0.2	0.0	0.5
Alongshore, Day					
0.5-2.4	12.8	8.7	18.5	12.5	4.8
2.5-4.9	54.2	45.5	57.7	52.6	58.1
5.0-9.9	32.6	44.7	23.3	34.8	37.2
<u>>10.0</u>	0.4	1.1	0.5	0.0	0.0
Alongshore, Night					
0.5-2.4	26.3	19.4	39.1	26.8	14.3
2.5-4.9	58.7	61.9	59.7	56.9	56.6
5.0-9.9	14.8	18.8	1.2	16.4	28.3
<u>>10.0</u>	0.2	0.0	0.0	0.0	0.8

Table 6.23 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	14.6	10.7	24.0	18.7	7.8
2.5-4.9	52.0	45.6	66.5	53.4	44.5
5.0-9.9	32.5	43.0	9.0	27.5	46.1
<u>>10.0</u>	0.8	0.7	0.5	0.3	1.7
Offshore, Day					
0.5-2.4	7.9	5.6	15.0	8.4	3.5
2.5-4.9	45.4	34.5	67.7	44.4	37.0
5.0-9.9	45.6	59.1	16.6	46.3	57.2
<u>>10.0</u>	1.1	0.8	0.6	0.9	2.2
Offshore, Night					
0.5-2.4	19.1	14.4	32.3	24.7	10.3
2.5-4.9	56.3	53.8	64.8	58.3	48.8
5.0-9.9	23.9	31.1	2.6	17.0	39.5
<u>>10.0</u>	0.6	0.6	0.3	0.0	1.3

Table 6.24
 Biloxi, Mississippi
 Percent of Hours in Each Wind Speed Class
 by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	25.1	16.4	30.3	29.7	24.5
2.5-4.9	48.1	50.3	50.0	45.7	46.2
5.0-9.9	26.2	32.4	18.9	24.3	28.7
<u>>10.0</u>	0.6	0.9	0.8	0.3	0.6
All Directions, Day					
0.5-2.4	18.9	11.0	23.6	22.1	19.2
2.5-4.9	49.5	49.5	52.8	48.0	47.1
5.0-9.9	31.0	38.4	23.2	29.5	33.1
<u>>10.0</u>	0.7	1.1	0.5	0.4	0.6
All Directions, Night					
0.5-2.4	35.5	26.3	47.1	40.5	31.2
2.5-4.9	45.7	51.8	43.0	42.4	45.2
5.0-9.9	18.2	21.4	8.4	16.8	23.1
<u>>10.0</u>	0.6	0.4	1.6	0.3	0.5

Table 6.24 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	20.0	12.6	20.6	27.5	22.8
2.5-4.9	51.7	51.0	53.7	51.6	50.0
5.0-9.9	27.4	34.7	24.9	20.8	26.9
<u>>10.0</u>	0.9	1.7	0.9	0.1	0.3
Onshore, Day					
0.5-2.4	13.3	6.3	14.5	19.0	16.4
2.5-4.9	53.2	49.9	55.1	55.2	53.6
5.0-9.9	32.6	41.6	29.9	25.7	29.5
<u>>10.0</u>	0.9	2.1	0.5	0.1	0.5
Onshore, Night					
0.5-2.4	34.3	25.5	38.1	43.8	32.6
2.5-4.9	48.6	53.4	49.6	44.8	44.6
5.0-9.9	16.4	20.3	10.3	11.4	22.9
<u>>10.0</u>	0.8	0.9	1.9	0.0	0.0

Table 6.24 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	31.4	22.1	36.2	33.6	33.2
2.5-4.9	43.7	45.6	47.0	44.7	38.7
5.0-9.9	24.6	32.3	15.3	21.7	27.9
<u>>10.0</u>	0.4	0.0	1.4	0.0	0.2
Alongshore, Day					
0.5-2.4	25.0	18.4	28.3	24.4	28.1
2.5-4.9	45.7	47.3	52.4	46.5	37.8
5.0-9.9	29.2	34.3	19.3	29.2	34.1
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	41.1	28.1	49.9	47.2	39.6
2.5-4.9	40.6	43.0	36.2	41.9	39.9
5.0-9.9	17.4	28.9	8.8	10.8	20.0
<u>>10.0</u>	0.9	0.0	5.1	0.0	0.5

Table 6.24 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	28.9	20.8	46.7	29.8	23.7
2.5-4.9	44.8	49.5	43.9	41.6	45.8
5.0-9.9	25.7	29.6	9.0	28.0	29.7
<u>>10.0</u>	0.5	0.0	0.4	0.5	0.8
	Offshore, Day				
0.5-2.4	24.3	16.0	40.8	23.7	19.2
2.5-4.9	45.2	48.6	47.9	41.5	44.5
5.0-9.9	30.0	34.7	10.9	34.2	35.5
<u>>10.0</u>	0.5	0.0	0.5	0.7	0.9
	Offshore, Night				
0.5-2.4	35.1	27.3	59.9	36.9	28.8
2.5-4.9	44.4	51.1	34.9	41.8	47.1
5.0-9.9	20.1	21.5	4.9	20.9	23.4
<u>>10.0</u>	0.5	0.0	0.3	0.4	0.8

Table 6.25
New Orleans, Louisiana
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
All Directions, All Hours					
0.5-2.4	15.5	13.5	20.2	16.3	12.6
2.5-4.9	50.3	41.6	60.2	50.3	49.7
5.0-9.9	33.2	42.8	19.6	32.9	36.6
≥10.0	1.0	2.1	0.1	0.5	1.2
All Directions, Day					
0.5-2.4	6.9	6.4	9.7	5.9	5.0
2.5-4.9	47.0	33.7	58.7	48.3	44.6
5.0-9.9	44.8	57.4	31.5	45.0	48.5
≥10.0	1.3	2.6	0.2	0.9	1.9
All Directions, Night					
0.5-2.4	22.1	18.3	31.7	23.9	17.5
2.5-4.9	52.8	46.9	61.7	51.8	52.9
5.0-9.9	24.4	33.1	6.6	24.0	28.9
≥10.0	0.8	1.8	0.0	0.3	0.7

Table 6.25 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Onshore, All Hours					
0.5-2.4	11.2	8.3	14.3	13.2	10.8
2.5-4.9	52.7	40.6	64.7	54.0	55.8
5.0-9.9	34.2	47.7	20.7	31.6	31.2
≥10.0	1.9	3.4	0.2	1.3	2.2
Onshore, Day					
0.5-2.4	5.0	2.0	8.0	6.9	2.4
2.5-4.9	41.0	21.3	55.6	37.9	49.1
5.0-9.9	51.0	71.7	35.1	52.4	43.9
≥10.0	3.0	5.1	0.4	2.8	4.5
Onshore, Night					
0.5-2.4	15.1	11.7	19.6	16.8	15.9
2.5-4.9	60.2	50.8	72.5	63.2	60.0
5.0-9.9	23.4	35.0	7.9	19.6	23.1
≥10.0	1.2	2.5	0.0	0.4	0.9

Table 6.25 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	26.3	25.7	32.7	22.7	26.5
2.5-4.9	46.3	39.9	46.0	47.4	52.9
5.0-9.9	27.4	34.4	21.3	30.0	20.6
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Day					
0.5-2.4	9.1	6.7	14.6	1.1	19.7
2.5-4.9	42.4	33.8	46.3	46.5	42.4
5.0-9.9	48.4	59.5	39.1	52.4	37.9
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	38.0	36.0	47.7	36.7	31.1
2.5-4.9	48.9	42.2	46.3	47.8	59.2
5.0-9.9	13.1	21.8	6.0	15.5	9.8
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.25 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	16.0	17.1	20.8	17.0	10.6
2.5-4.9	49.4	44.4	61.6	48.8	43.5
5.0-9.9	34.2	37.9	17.6	34.1	45.2
<u>>10.0</u>	0.4	0.6	0.0	0.2	0.8
	Offshore, Day				
0.5-2.4	7.7	10.5	8.8	7.0	4.5
2.5-4.9	53.3	47.1	65.0	56.1	42.1
5.0-9.9	38.7	42.0	26.2	36.9	52.7
<u>>10.0</u>	0.3	0.4	0.0	0.0	0.7
	Offshore, Night				
0.5-2.4	23.9	23.3	37.9	26.6	14.9
2.5-4.9	45.6	42.0	56.6	41.7	44.4
5.0-9.9	30.0	33.9	5.5	31.4	39.9
<u>>10.0</u>	0.5	0.8	0.0	0.3	0.8

Table 6.26
Boothville, Louisiana
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	15.8	14.1	20.8	16.0	13.0
2.5-4.9	47.3	42.3	59.7	46.2	42.7
5.0-9.9	35.9	42.3	19.4	37.8	41.7
<u>>10.0</u>	1.0	1.3	0.1	0.0	2.6
All Directions, Day					
0.5-2.4	7.1	6.5	11.9	4.6	4.5
2.5-4.9	48.0	38.2	60.6	50.3	41.8
5.0-9.9	43.9	52.9	27.5	45.1	51.8
<u>>10.0</u>	1.0	2.3	0.0	0.0	1.9
All Directions, Night					
0.5-2.4	22.5	19.0	30.3	24.8	18.7
2.5-4.9	46.7	45.0	58.7	43.0	43.3
5.0-9.9	29.7	35.4	10.9	32.2	35.0
<u>>10.0</u>	1.0	0.6	0.2	0.0	3.0

Table 6.26 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	14.7	9.7	21.7	17.2	11.5
2.5-4.9	48.7	40.1	60.6	49.0	46.5
5.0-9.9	35.9	48.3	17.8	33.9	41.2
<u>>10.0</u>	0.8	1.9	0.0	0.0	0.7
Onshore, Day					
0.5-2.4	7.2	5.7	13.3	5.1	2.8
2.5-4.9	43.4	26.4	58.4	50.7	38.0
5.0-9.9	48.0	64.0	28.3	44.2	58.5
<u>>10.0</u>	1.3	3.9	0.0	0.0	0.7
Onshore, Night					
0.5-2.4	19.5	11.8	28.2	25.4	16.9
2.5-4.9	52.0	47.4	62.0	47.8	51.8
5.0-9.9	28.1	40.0	9.9	26.9	30.6
<u>>10.0</u>	0.5	0.8	0.0	0.0	0.8

Table 6.26 (continued)

Wind Speed (msec^{-1}).	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	24.9	23.3	22.2	19.7	36.3
2.5-4.9	49.9	49.1	57.4	47.1	47.4
5.0-9.9	25.1	27.6	20.4	33.2	16.4
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Day					
0.5-2.4	9.0	10.4	11.0	4.5	11.9
2.5-4.9	48.7	40.3	52.5	47.7	63.0
5.0-9.9	42.3	49.3	36.6	47.8	25.2
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0
Alongshore, Night					
0.5-2.4	33.9	29.3	30.9	27.9	47.4
2.5-4.9	50.8	53.4	61.3	49.5	40.2
5.0-9.9	15.2	17.3	7.8	22.6	12.4
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.26 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	13.1	14.8	18.8	13.0	8.9
2.5-4.9	45.1	42.0	59.9	44.5	38.8
5.0-9.9	40.2	42.4	21.1	42.5	47.8
<u>>10.0</u>	1.7	0.8	0.2	0.0	4.5
Offshore, Day					
0.5-2.4	6.3	5.0	11.0	4.4	4.3
2.5-4.9	51.6	49.8	65.6	51.4	39.7
5.0-9.9	41.0	43.2	23.4	44.3	52.9
<u>>10.0</u>	1.1	1.1	0.0	0.0	3.1
Offshore, Night					
0.5-2.4	20.0	24.2	34.5	21.0	12.3
2.5-4.9	38.4	33.5	48.4	38.2	38.1
5.0-9.9	39.3	41.8	16.3	40.8	44.0
<u>>10.0</u>	2.2	0.4	0.8	0.0	5.6

Table 6.27
Lake Charles, Louisiana
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	16.1	15.1	23.0	15.0	11.9
2.5-4.9	51.4	44.0	61.6	55.3	45.8
5.0-9.9	31.4	39.6	15.3	28.8	40.5
<u>>10.0</u>	1.0	1.3	0.1	0.9	1.8
All Directions, Day					
0.5-2.4	6.6	6.3	9.8	4.8	4.7
2.5-4.9	46.3	33.4	63.5	47.8	36.9
5.0-9.9	45.4	58.1	26.6	45.9	54.7
<u>>10.0</u>	1.8	2.3	0.1	1.5	3.7
All Directions, Night					
0.5-2.4	23.1	21.0	37.1	21.7	16.5
2.5-4.9	55.2	51.2	59.9	60.0	51.6
5.0-9.9	21.1	27.2	3.0	17.8	31.4
<u>>10.0</u>	0.5	0.6	0.0	0.6	0.6

Table 6.27 (continued).

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	13.6	10.1	19.0	14.6	12.6
2.5-4.9	51.6	45.6	58.8	57.5	47.1
5.0-9.9	33.8	43.2	22.1	27.4	38.4
<u>>10.0</u>	0.9	1.1	0.0	0.5	1.9
Onshore, Day					
0.5-2.4	4.7	3.4	7.1	3.9	3.9
2.5-4.9	42.8	29.7	56.0	49.0	35.3
5.0-9.9	50.5	64.4	36.9	45.8	56.0
<u>>10.0</u>	2.0	2.5	0.0	1.3	4.8
Onshore, Night					
0.5-2.4	21.2	15.0	34.0	24.3	18.3
2.5-4.9	59.2	57.4	62.7	64.1	55.0
5.0-9.9	19.6	27.6	3.3	11.6	26.8
<u>>10.0</u>	0.0	0.0	0.0	0.0	0.0

Table 6.27 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	20.2	28.5	25.2	15.7	12.7
2.5-4.9	61.7	45.9	68.1	72.1	56.9
5.0-9.9	17.8	25.2	6.7	11.9	29.7
<u>>10.0</u>	0.4	0.4	0.0	0.4	0.7
Alongshore, Day					
0.5-2.4	7.7	8.3	9.5	6.0	6.4
2.5-4.9	63.6	44.8	79.6	71.4	52.5
5.0-9.9	28.3	45.8	10.8	22.6	40.4
<u>>10.0</u>	0.4	1.0	0.0	0.0	0.8
Alongshore, Night					
0.5-2.4	28.9	42.8	39.7	20.7	17.1
2.5-4.9	60.3	46.6	57.3	72.4	60.0
5.0-9.9	10.5	10.5	2.9	6.3	22.4
<u>>10.0</u>	0.3	0.0	0.0	0.5	0.6

Table 6.27 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	17.0	16.8	29.5	15.4	10.6
2.5-4.9	44.8	40.1	61.2	44.7	37.2
5.0-9.9	36.5	40.8	9.0	38.3	49.9
<u>>10.0</u>	1.7	2.3	0.3	1.6	2.3
	Offshore, Day				
0.5-2.4	8.9	11.2	16.7	5.2	4.3
2.5-4.9	40.4	34.3	66.6	36.1	27.8
5.0-9.9	48.2	51.5	16.1	56.4	64.1
<u>>10.0</u>	2.5	3.1	0.6	2.4	3.9
	Offshore, Night				
0.5-2.4	22.0	19.8	40.3	21.3	14.3
2.5-4.9	47.4	43.3	56.8	49.8	42.6
5.0-9.9	29.3	34.9	2.9	27.8	41.7
<u>>10.0</u>	1.2	2.0	0.0	1.1	1.3

Table 6.28
Galveston, Texas
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	12.5	7.6	16.0	12.6	13.8
2.5-4.9	41.6	33.3	51.3	39.8	41.7
5.0-9.9	43.1	56.9	32.1	43.4	40.4
<u>>10.0</u>	2.8	2.3	0.5	4.2	4.2
All Directions, Day					
0.5-2.4	6.1	3.5	9.7	5.4	5.1
2.5-4.9	38.1	27.8	50.3	37.6	34.6
5.0-9.9	53.1	66.6	39.6	52.7	55.2
<u>>10.0</u>	2.8	2.2	0.4	4.3	5.1
All Directions, Night					
0.5-2.4	17.3	11.0	22.2	17.4	18.6
2.5-4.9	44.1	37.8	52.4	41.2	45.6
5.0-9.9	35.8	48.8	24.8	37.2	32.1
<u>>10.0</u>	2.8	2.4	0.6	4.1	3.7

Table 6.28 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	9.1	5.6	10.3	10.7	10.7
2.5-4.9	45.5	33.0	51.8	46.1	54.6
5.0-9.9	44.3	60.2	37.5	40.4	34.4
<u>>10.0</u>	1.1	1.2	0.4	2.7	0.2
Onshore, Day					
0.5-2.4	4.2	2.5	6.0	4.3	3.5
2.5-4.9	40.3	27.0	48.8	43.2	43.6
5.0-9.9	54.5	69.6	44.9	49.8	52.5
<u>>10.0</u>	1.0	0.9	0.3	2.7	0.4
Onshore, Night					
0.5-2.4	13.0	8.2	14.7	15.1	15.3
2.5-4.9	49.7	38.1	54.8	48.0	61.6
5.0-9.9	36.0	52.2	29.9	34.1	23.0
<u>>10.0</u>	1.3	1.5	0.5	2.8	0.1

Table 6.28 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	24.3	21.4	40.2	16.3	23.1
2.5-4.9	37.8	33.6	45.6	36.1	36.1
5.0-9.9	35.4	43.2	13.7	43.4	38.3
<u>>10.0</u>	2.6	1.7	0.6	4.2	2.5
Alongshore, Day					
0.5-2.4	11.0	7.4	24.1	6.7	6.5
2.5-4.9	35.7	31.4	50.5	30.8	30.5
5.0-9.9	50.5	60.3	25.0	56.6	61.0
<u>>10.0</u>	2.8	0.8	0.5	5.9	2.0
Alongshore, Night					
0.5-2.4	31.0	29.0	49.9	21.2	30.2
2.5-4.9	38.8	34.8	43.2	38.8	38.4
5.0-9.9	27.7	33.9	6.2	36.6	28.8
<u>>10.0</u>	2.5	2.3	0.7	3.3	2.6

Table 6.28 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Offshore, All Hours					
0.5-2.4	14.2	9.6	26.4	13.8	12.8
2.5-4.9	33.5	34.3	55.4	29.3	29.1
5.0-9.9	44.9	49.0	17.1	49.6	48.3
<u>>10.0</u>	7.5	7.1	1.1	7.3	9.8
Offshore, Day					
0.5-2.4	8.8	6.0	20.7	6.7	6.5
2.5-4.9	33.1	29.8	59.4	30.4	24.5
5.0-9.9	50.1	56.1	18.8	56.2	56.4
<u>>10.0</u>	8.0	8.1	1.1	6.6	12.6
Offshore, Night					
0.5-2.4	18.0	12.7	33.3	19.0	16.1
2.5-4.9	33.7	38.1	50.3	28.6	31.5
5.0-9.9	41.3	42.9	15.3	44.7	44.0
<u>>10.0</u>	7.1	6.2	1.1	7.7	8.4

Table 6.29
Houston, Texas
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	20.7	15.1	31.3	20.8	15.5
2.5-4.9	42.6	37.1	47.7	43.8	42.1
5.0-9.9	35.0	46.1	20.8	33.4	39.6
<u>>10.0</u>	1.7	1.7	0.2	2.0	2.8
All Directions, Day					
0.5-2.4	9.2	6.8	15.1	7.4	5.9
2.5-4.9	35.7	24.4	50.1	34.9	31.2
5.0-9.9	52.5	65.7	34.5	55.0	57.9
<u>>10.0</u>	2.6	3.2	0.3	2.8	5.0
All Directions, Night					
0.5-2.4	29.4	22.2	47.8	30.0	20.9
2.5-4.9	47.9	47.9	45.2	49.8	48.1
5.0-9.9	21.8	29.5	6.9	18.8	29.5
<u>>10.0</u>	0.9	0.4	0.1	1.4	1.5

Table 6.29 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Onshore, All Hours					
0.5-2.4	19.3	12.6	27.2	20.3	16.9
2.5-4.9	42.3	36.3	47.3	42.6	44.5
5.0-9.9	37.1	49.7	25.4	34.7	37.2
<u>>10.0</u>	1.3	1.4	0.2	2.4	1.4
Onshore, Day					
0.5-2.4	6.7	4.2	9.9	5.5	6.7
2.5-4.9	32.2	21.1	46.6	30.0	27.6
5.0-9.9	59.0	72.2	43.3	61.1	62.4
<u>>10.0</u>	2.1	2.6	0.2	3.4	3.3
Onshore, Night					
0.5-2.4	29.3	19.8	44.4	31.1	22.4
2.5-4.9	50.2	49.3	47.5	51.8	53.5
5.0-9.9	19.9	30.5	7.9	15.3	23.7
<u>>10.0</u>	0.7	0.4	0.2	1.7	0.4

Table 6.29 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
Alongshore, All Hours					
0.5-2.4	27.2	26.1	36.6	24.2	21.5
2.5-4.9	48.9	48.7	50.7	49.1	46.6
5.0-9.9	23.2	24.7	12.7	24.8	31.6
<u>>10.0</u>	0.7	0.5	0.0	1.8	0.3
Alongshore, Day					
0.5-2.4	14.7	15.2	21.7	11.1	9.1
2.5-4.9	49.6	50.2	58.1	47.2	39.3
5.0-9.9	35.1	33.5	20.2	40.2	51.2
<u>>10.0</u>	0.6	1.1	0.0	1.4	0.3
Alongshore, Night					
0.5-2.4	37.2	35.4	53.0	33.9	28.6
2.5-4.9	48.4	47.5	42.5	50.5	51.4
5.0-9.9	13.6	17.0	4.5	13.4	19.8
<u>>10.0</u>	0.7	0.0	0.0	2.1	0.3

Table 6.29 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	19.5	18.0	40.9	19.6	11.2
2.5-4.9	39.4	34.4	45.0	42.4	37.6
5.0-9.9	38.1	44.7	13.5	36.6	45.9
<u>>10.0</u>	3.0	2.9	0.6	1.4	5.3
	Offshore, Day				
0.5-2.4	10.8	11.2	27.1	8.0	3.4
2.5-4.9	33.9	23.0	51.6	34.7	30.6
5.0-9.9	50.2	60.0	20.2	54.7	57.0
<u>>10.0</u>	5.1	5.8	1.1	2.5	8.9
	Offshore, Night				
0.5-2.4	25.3	23.7	56.4	26.2	15.7
2.5-4.9	43.2	43.8	37.5	46.7	41.5
5.0-9.9	30.0	31.9	6.0	26.4	39.5
<u>>10.0</u>	1.6	0.6	0.0	0.7	3.3

Table 6.30
Brownsville, Texas
Percent of Hours in Each Wind Speed Class
by Wind Direction, Season and Time of Day

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
All Directions, All Hours					
0.5-2.4	12.7	6.5	15.2	17.0	12.5
2.5-4.9	34.5	24.5	36.4	39.8	37.8
5.0-9.9	49.2	62.0	47.1	41.2	45.9
<u>>10.0</u>	3.6	7.1	1.3	2.0	3.9
All Directions, Day					
0.5-2.4	2.9	1.8	2.2	3.7	4.1
2.5-4.9	19.5	9.4	18.0	25.9	26.6
5.0-9.9	70.8	76.7	77.3	65.4	60.9
<u>>10.0</u>	6.8	12.1	2.5	5.0	8.4
All Directions, Night					
0.5-2.4	20.0	9.9	28.2	25.4	17.6
2.5-4.9	45.6	35.6	54.7	48.6	44.7
5.0-9.9	33.2	51.1	17.0	25.9	36.7
<u>>10.0</u>	1.2	3.3	0.0	0.1	1.0

Table 6.30 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Onshore, All Hours				
0.5-2.4	12.3	5.5	14.8	16.1	13.1
2.5-4.9	38.4	27.9	37.1	44.3	48.9
5.0-9.9	47.7	62.5	47.5	39.2	36.6
<u>>10.0</u>	1.7	4.1	0.6	0.4	1.4
	Onshore, Day				
0.5-2.4	2.4	1.3	2.3	1.8	5.6
2.5-4.9	18.4	8.6	16.2	27.9	30.0
5.0-9.9	75.7	82.2	80.2	68.9	60.0
<u>>10.0</u>	3.5	7.8	1.3	1.3	4.4
	Onshore, Night				
0.5-2.4	18.6	8.2	26.0	23.2	16.4
2.5-4.9	51.1	40.3	55.8	52.4	57.4
5.0-9.9	29.8	49.7	18.2	24.4	26.2
<u>>10.0</u>	0.5	1.8	0.0	0.0	0.0

Table 6.30 (continued)

Wind Speed (msec ⁻¹)	Season				
	Annual	Spring	Summer	Fall	Winter
Alongshore, All Hours					
0.5-2.4	9.8	4.2	12.5	13.9	9.6
2.5-4.9	26.9	14.9	32.5	34.4	27.1
5.0-9.9	56.6	68.5	52.1	48.8	56.0
≥10.0	6.8	12.4	2.8	2.9	7.3
Alongshore, Day					
0.5-2.4	1.5	0.4	0.8	3.6	1.5
2.5-4.9	15.7	8.6	15.2	20.0	19.5
5.0-9.9	71.5	72.8	79.0	70.4	65.2
≥10.0	11.2	18.2	5.0	6.1	13.8
Alongshore, Night					
0.5-2.4	17.7	8.0	28.1	23.7	15.6
2.5-4.9	37.4	21.0	55.4	48.2	32.8
5.0-9.9	42.4	64.4	16.6	28.1	49.0
≥10.0	2.6	6.7	0.0	0.0	2.5

Table 6.30 (continued)

Wind Speed (msec ⁻¹)	Annual	Spring	Season		Winter
			Summer	Fall	
	Offshore, All Hours				
0.5-2.4	24.2	23.5	41.3	27.0	18.2
2.5-4.9	42.6	48.9	54.2	38.4	40.7
5.0-9.9	31.3	25.6	4.5	30.8	40.7
<u>>10.0</u>	1.9	1.9	0.0	3.8	0.4
	Offshore, Day				
0.5-2.4	10.9	16.0	14.4	10.0	8.7
2.5-4.9	40.0	22.1	15.1	31.8	38.1
5.0-9.9	45.0	59.9	10.5	42.1	51.6
<u>>10.0</u>	4.0	1.9	0.0	10.0	1.0
	Offshore, Night				
0.5-2.4	32.1	27.2	61.8	35.4	24.7
2.5-4.9	44.2	61.7	38.2	38.8	42.1
5.0-9.9	23.1	9.2	0.0	25.1	33.2
<u>>10.0</u>	0.5	1.9	0.0	0.6	0.0

Table 7.1
Portland, Maine
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	4.5	4.8	11.3	1.9	0.1
Fair	58.3	63.9	51.7	57.8	59.8
Poor	25.1	21.1	22.8	26.9	29.9
Very Poor	12.0	10.2	14.2	13.5	10.3
Day, All Directions					
Very Good	0.0	0.1	0.0	0.0	0.0
Good	11.0	9.8	22.7	4.9	0.2
Fair	84.3	86.0	75.0	88.6	92.5
Poor	4.5	4.1	2.2	6.5	7.0
Very Poor	0.1	0.0	0.1	0.0	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	40.1	43.2	28.4	39.0	47.1
Poor	39.5	37.1	43.3	39.3	38.7
Very Poor	20.4	19.7	28.3	21.7	14.2

Table 7.1 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.3	0.0	0.0	0.0
Good	10.4	9.6	19.9	3.7	0.6
Fair	67.9	75.3	56.0	75.2	65.9
Poor	15.9	11.6	17.4	15.6	23.1
Very Poor	5.7	3.2	6.7	5.4	10.3
Day, Onshore					
Very Good	0.1	0.5	0.0	0.0	0.0
Good	17.2	14.4	29.2	6.5	1.5
Fair	78.4	83.0	68.2	88.4	80.1
Poor	4.2	2.1	2.5	5.1	18.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	51.9	60.7	30.0	60.7	55.7
Poor	33.6	30.1	48.9	27.3	26.7
Very Poor	14.5	9.2	21.0	12.0	17.6

Table 7.1 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	2.5	2.1	5.5	1.8	0.0
Fair	67.3	69.8	62.8	68.1	68.9
Poor	24.2	21.0	24.6	25.8	25.4
Very Poor	6.0	7.0	7.1	4.3	5.7
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	6.7	4.5	13.2	4.7	0.0
Fair	90.2	90.9	85.6	90.3	100.0
Poor	3.1	4.6	1.2	5.0	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	53.6	51.6	46.7	55.8	59.4
Poor	36.9	35.3	41.1	37.6	33.1
Very Poor	9.5	13.1	12.2	6.6	7.5

Table 7.1 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	3.2	3.7	9.9	1.0	0.0
Fair	52.2	58.7	43.4	46.0	57.7
Poor	29.8	26.0	25.6	33.3	32.8
Very Poor	14.8	11.6	21.1	19.6	9.5
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	9.1	8.8	22.0	3.2	0.0
Fair	87.2	88.5	75.6	89.6	96.4
Poor	3.8	2.7	2.4	7.2	3.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	32.7	37.6	16.8	25.0	43.1
Poor	44.3	42.5	44.7	45.9	43.9
Very Poor	23.0	19.9	38.5	29.1	13.1

Table 7.2
 Boston, Massachusetts
 Percent of Hours in Each Diffusion Class
 by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.0	0.2	0.0	0.0
Good	4.2	4.3	10.3	1.9	0.0
Fair	78.5	80.2	70.7	80.8	82.3
Poor	14.2	12.6	15.4	14.4	14.4
Very Poor	3.1	2.9	3.4	2.8	3.3
Day, All Directions					
Very Good	0.1	0.0	0.4	0.0	0.0
Good	10.1	9.0	20.7	5.0	0.0
Fair	87.8	89.2	78.0	93.2	95.9
Poor	1.8	1.5	1.0	1.6	4.1
Very Poor	0.1	0.3	0.0	0.2	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	71.9	71.8	63.3	73.2	76.9
Poor	22.9	22.8	29.9	22.3	18.4
Very Poor	5.2	5.4	6.8	4.4	4.7

Table 7.2 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.2	0.0	0.8	0.0	0.0
Good	8.0	7.0	18.2	4.1	0.0
Fair	75.2	77.0	64.3	81.3	77.7
Poor	12.6	12.6	11.2	11.4	17.9
Very Poor	4.0	3.4	5.5	3.2	4.5
Day, Onshore					
Very Good	0.4	0.0	1.2	0.0	0.0
Good	14.8	11.7	27.3	8.7	0.0
Fair	82.0	85.8	70.0	90.4	87.2
Poor	2.8	2.5	1.6	0.9	12.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	67.1	63.4	51.9	73.8	71.5
Poor	24.2	27.8	31.0	20.5	20.8
Very Poor	8.7	8.8	17.1	5.7	7.7

Table 7.2 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	1.8	3.6	3.4	1.0	0.0
Fair	74.1	75.1	73.3	73.0	75.5
Poor	20.3	18.7	19.7	23.0	18.6
Very Poor	3.9	2.6	3.5	3.1	5.9
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	5.6	8.9	8.5	3.3	0.0
Fair	92.6	89.9	89.7	94.2	98.9
Poor	1.8	1.2	1.9	2.4	1.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	65.2	65.6	61.7	64.5	68.1
Poor	29.2	30.3	32.3	31.3	24.3
Very Poor	5.6	4.1	6.1	4.3	7.6

Table 7.2 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very good	0.0	0.0	0.0	0.0	0.0
Good	3.1	3.1	8.5	0.9	0.0
Fair	82.3	84.4	73.2	85.0	86.2
Poor	12.9	11.0	16.2	12.5	12.1
Very Poor	1.7	1.5	2.1	1.6	1.6
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	8.3	7.0	19.1	2.5	0.0
Fair	91.2	92.3	80.6	97.1	98.7
Poor	0.6	0.6	0.3	0.4	1.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	76.9	78.2	67.2	77.7	81.6
Poor	20.4	19.2	29.1	19.8	16.1
Very Poor	2.7	2.6	3.7	2.5	2.2

Table 7.3
Bedford, Massachusetts
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.2	0.4	0.0	0.0
Good	4.6	5.3	11.1	2.0	0.0
Fair	48.8	54.4	45.1	43.5	51.9
Poor	21.8	20.8	19.6	23.7	23.0
Very Poor	24.7	19.3	23.8	30.7	25.1
Day, All Directions					
Very Good	0.3	0.3	0.7	0.0	0.0
Good	10.9	11.3	21.1	5.3	0.0
Fair	76.1	79.9	69.1	76.3	81.7
Poor	12.2	7.9	8.9	18.0	16.9
Very Poor	0.5	0.4	0.2	0.3	1.5
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	28.6	31.9	18.4	23.2	38.0
Poor	28.8	32.1	31.5	27.2	25.9
Very Poor	42.6	35.9	50.2	49.6	36.1

Table 7.3 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.2	0.3	0.0	0.0
Good	5.5	7.3	14.9	2.3	0.0
Fair	67.7	69.8	60.1	64.4	74.4
Poor	21.6	16.9	19.3	27.5	22.4
Very Poor	5.1	5.8	5.4	5.8	3.2
Day, Onshore					
Very Good	0.2	0.4	0.5	0.0	0.0
Good	10.4	12.5	21.3	4.9	0.0
Fair	81.2	81.8	72.1	82.8	88.9
Poor	8.2	5.2	6.1	12.3	11.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	52.9	52.8	32.6	48.6	64.8
Poor	36.5	33.4	49.7	40.7	30.0
Very Poor	10.7	13.7	17.7	10.7	5.3

Table 7.3 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Alongshore					
Very Good	0.3	0.2	1.2	0.0	0.0
Good	5.9	8.3	13.0	2.7	0.0
Fair	62.1	61.4	52.4	62.6	71.1
Poor	23.2	21.1	24.1	25.2	22.6
Very Poor	8.5	9.1	9.3	9.6	6.3
Day, Alongshore					
Very Good	0.7	0.4	2.0	0.0	0.0
Good	12.1	14.6	22.3	5.7	0.0
Fair	79.1	77.5	67.3	87.3	90.3
Poor	8.1	7.5	8.4	6.9	9.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	45.8	42.4	31.6	40.4	59.9
Poor	37.6	37.8	46.2	41.4	30.1
Very Poor	16.6	19.7	22.3	18.2	10.0

Table 7.3 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.1	0.2	0.3	0.0	0.0
Good	5.9	5.2	13.1	3.2	0.0
Fair	57.2	60.8	52.0	56.3	60.4
Poor	24.0	24.2	19.7	26.6	26.9
Very Poor	12.8	9.7	14.9	13.9	12.7
Day, Offshore					
Very Good	0.3	0.4	0.5	0.0	0.0
Good	12.5	10.7	22.8	7.0	0.0
Fair	83.8	86.9	73.9	88.4	95.1
Poor	3.4	2.1	2.9	4.6	4.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	33.7	36.8	22.6	28.6	43.0
Poor	42.3	44.6	42.4	45.4	38.0
Very Poor	24.0	18.6	35.0	26.0	19.0

Table 7.4
Falmouth, Massachusetts
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.4	0.0	0.0
Good	5.0	5.9	10.5	3.2	0.2
Fair	60.4	63.8	54.7	56.8	66.4
Poor	18.0	16.7	18.2	18.9	18.3
Very Poor	16.5	13.5	16.2	21.1	15.1
Day, All Directions					
Very Good	0.3	0.1	0.7	0.0	0.0
Good	11.6	12.6	20.0	8.2	0.5
Fair	81.7	82.8	72.5	84.8	91.5
Poor	5.9	4.0	6.4	6.8	6.7
Very Poor	0.5	0.4	0.4	0.1	1.3
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	44.7	47.3	34.9	39.4	54.4
Poor	27.0	27.8	31.3	26.5	23.8
Very Poor	28.3	25.0	33.8	34.2	21.8

Table 7.4 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.1	0.6	0.0	0.0
Good	5.3	6.7	15.4	3.7	0.3
Fair	66.1	66.9	55.6	65.6	71.1
Poor	18.6	17.7	17.8	19.3	19.2
Very Poor	9.9	8.6	10.7	11.4	9.4
Day, Onshore					
Very Good	0.3	0.3	1.0	0.0	0.0
Good	12.2	14.1	25.6	8.6	0.8
Fair	85.5	84.6	70.2	89.6	96.9
Poor	2.1	1.1	3.2	1.8	2.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	51.0	51.1	33.3	47.4	58.5
Poor	31.3	32.6	39.9	32.6	27.5
Very Poor	17.7	16.2	26.8	20.0	14.0

Table 7.4 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.2	0.0	0.0
Good	6.0	6.9	11.6	4.2	0.1
Fair	69.5	71.3	65.3	65.8	75.9
Poor	18.2	16.0	17.5	20.5	19.7
Very Poor	6.2	5.8	5.5	9.6	4.3
Day, Alongshore					
Very Good	0.1	0.0	0.3	0.0	0.0
Good	13.3	13.9	21.3	10.0	0.3
Fair	84.0	84.8	76.0	87.0	94.4
Poor	2.7	1.4	2.3	2.9	5.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	55.5	57.9	52.7	50.9	66.2
Poor	33.2	30.5	35.4	32.8	27.3
Very Poor	11.4	11.6	12.0	16.4	6.5

Table 7.4 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.1	0.5	0.0	0.0
Good	5.3	5.4	9.0	3.0	0.0
Fair	66.2	68.9	62.2	62.9	76.4
Poor	19.4	17.2	20.6	21.1	18.1
Very Poor	8.9	8.4	7.7	13.0	5.5
Day, Offshore					
Very Good	0.4	0.2	0.9	0.0	0.0
Good	10.8	10.8	16.0	7.1	0.0
Fair	83.7	85.6	78.4	86.0	93.0
Poor	5.1	3.5	4.8	6.9	7.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	49.6	51.5	41.5	46.0	65.9
Poor	33.0	31.5	40.9	31.5	25.1
Very Poor	17.4	17.0	17.6	22.5	8.9

Table 7.5
Nantucket, Massachusetts
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.2	0.0	0.0
Good	3.8	3.3	9.3	2.3	0.1
Fair	77.3	78.2	68.7	78.1	84.3
Poor	15.7	15.9	17.7	16.8	12.6
Very Poor	3.1	2.4	4.1	2.8	3.0
Day, All Directions					
Very Good	0.2	0.3	0.4	0.0	0.0
Good	9.0	6.8	18.5	5.5	0.5
Fair	90.2	92.9	80.0	94.0	98.8
Poor	0.5	0.0	1.1	0.5	0.5
Very Poor	0.0	0.0	0.0	0.0	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	67.8	64.3	57.3	66.9	78.5
Poor	26.9	31.0	34.5	28.3	17.5
Very Poor	5.3	4.8	8.2	4.8	4.1

Table 7.5 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	3.0	2.5	10.6	2.3	0.3
Fair	78.6	80.0	67.3	79.6	82.0
Poor	15.7	15.0	18.7	16.0	14.7
Very Poor	2.7	2.5	3.4	2.1	3.1
Day, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	7.4	5.4	19.4	5.4	1.0
Fair	92.0	94.6	79.6	93.9	98.6
Poor	0.5	0.0	1.0	0.8	0.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	69.7	66.9	52.8	69.1	76.0
Poor	25.8	28.3	39.8	27.2	19.8
Very Poor	4.5	4.9	7.4	3.7	4.2

Table 7.5 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.6	0.4	0.0	0.0
Good	3.0	3.6	6.3	2.7	0.0
Fair	78.4	74.9	69.5	77.5	89.7
Poor	16.5	18.9	20.8	17.8	9.4
Very Poor	1.9	2.0	3.0	2.0	1.0
Day, Alongshore					
Very Good	0.5	1.3	0.7	0.0	0.0
Good	7.3	7.5	13.5	7.0	0.0
Fair	92.0	91.2	85.0	93.0	100.0
Poor	0.2	0.0	0.7	0.0	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	69.0	60.2	55.5	67.8	84.9
Poor	27.7	35.9	38.8	29.0	13.6
Very Poor	3.3	3.9	5.7	3.2	1.4

Table 7.5 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Offshore					
Very Good	0.1	0.0	0.3	0.0	0.0
Good	5.4	4.1	10.0	1.9	0.0
Fair	76.1	78.2	70.4	78.4	86.0
Poor	15.6	16.0	16.3	16.8	11.2
Very Poor	2.7	1.7	3.1	3.0	2.8
Day, Offshore					
Very Good	0.2	0.0	0.5	0.0	0.0
Good	11.7	8.0	19.8	4.3	0.0
Fair	87.6	92.0	78.6	95.7	98.9
Poor	0.5	0.0	1.0	0.0	1.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	66.3	63.7	62.0	65.2	80.2
Poor	28.7	33.0	31.8	29.4	15.7
Very Poor	5.1	3.4	6.2	5.4	4.1

Table 7.6
Belmar, New Jersey
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.6	0.0	0.0
Good	5.4	6.8	10.9	3.4	0.3
Fair	43.8	47.6	34.9	42.1	50.7
Poor	25.1	23.6	23.2	26.1	27.7
Very Poor	25.4	21.7	30.4	28.3	21.3
Day, All Directions					
Very Good	0.6	0.7	1.2	0.0	0.0
Good	12.8	14.4	21.4	8.9	1.0
Fair	74.4	75.9	62.7	78.1	86.7
Poor	11.7	8.6	13.9	12.9	11.6
Very Poor	0.5	0.4	0.7	0.1	0.7
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	21.6	22.5	5.7	19.6	34.3
Poor	34.8	37.0	32.7	34.4	34.9
Very Poor	43.6	40.5	61.5	46.0	30.7

Table 7.6 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.6	0.5	2.3	0.0	0.0
Good	7.3	9.1	17.6	3.0	0.0
Fair	58.7	62.3	49.1	54.7	71.5
Poor	25.4	22.7	22.6	31.0	23.0
Very Poor	8.0	5.5	8.3	11.3	5.6
Day, Onshore					
Very Good	1.1	0.9	3.1	0.0	0.0
Good	13.9	15.6	24.0	7.3	0.0
Fair	74.0	74.0	61.1	82.3	82.2
Poor	11.0	8.7	11.8	10.3	17.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	42.1	45.1	17.1	35.6	65.5
Poor	41.3	42.1	52.8	45.2	25.6
Very Poor	16.6	12.8	30.0	19.2	8.9

Table 7.6 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.3	0.4	0.6	0.0	0.0
Good	7.8	8.3	12.4	6.1	0.0
Fair	46.5	54.0	38.3	46.3	54.6
Poor	27.0	23.2	28.7	24.5	31.5
Very Poor	18.4	14.1	20.0	23.1	13.9
Day, Alongshore					
Very Good	0.6	0.8	1.1	0.0	0.0
Good	16.6	16.3	24.2	13.6	0.0
Fair	74.9	78.4	65.1	78.7	90.5
Poor	7.9	4.5	9.5	7.7	9.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	21.1	28.9	8.8	21.3	33.2
Poor	43.8	42.1	48.8	37.8	44.5
Very Poor	35.1	29.0	42.4	40.9	22.4

Table 7.6 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.1	0.3	0.2	0.0	0.0
Good	4.7	6.2	10.8	3.2	0.5
Fair	45.2	45.9	36.4	41.1	52.9
Poor	25.5	26.4	18.9	24.8	29.8
Very Poor	24.5	21.3	33.6	31.0	16.9
Day, Offshore					
Very Good	0.3	0.6	0.5	0.0	0.0
Good	12.0	13.7	22.4	8.8	1.7
Fair	83.1	81.6	71.1	86.7	94.1
Poor	4.7	4.1	5.9	4.5	4.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	20.9	17.0	3.8	14.2	34.9
Poor	38.8	44.4	30.9	36.5	40.8
Very Poor	40.3	38.6	65.3	49.3	24.2

Table 7.7
Lakehurst, New Jersey
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.1	0.6	0.0	0.0
Good	4.2	5.0	8.5	3.2	0.1
Fair	46.6	53.5	40.1	42.3	50.3
Poor	23.2	22.5	22.0	22.5	25.9
Very Poor	25.8	18.8	28.8	32.0	23.6
Day, All Directions					
Very Good	0.4	0.2	1.2	0.0	0.0
Good	10.0	10.7	16.6	8.4	0.3
Fair	78.9	82.1	70.8	78.9	87.4
Poor	10.2	7.0	11.1	12.6	10.8
Very Poor	0.4	0.0	0.3	0.1	1.5
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.1	28.1	8.1	19.2	33.4
Poor	32.6	36.3	33.5	28.6	32.8
Very Poor	44.3	35.5	58.5	52.1	33.8

Table 7.7 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Onshore					
Very Good	0.1	0.0	0.3	0.0	0.0
Good	5.2	6.1	10.4	1.9	0.0
Fair	57.3	66.3	47.4	56.9	55.8
Poor	27.2	22.0	28.8	29.2	32.8
Very Poor	10.2	5.6	13.1	12.0	11.4
Day, Onshore					
Very Good	0.1	0.0	0.4	0.0	0.0
Good	10.5	11.7	17.4	3.8	0.0
Fair	79.0	82.7	71.2	84.9	78.1
Poor	10.4	5.6	11.0	11.2	21.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.4	48.0	12.9	33.2	46.1
Poor	43.5	40.5	54.7	44.2	37.3
Very Poor	20.1	11.6	32.4	22.5	16.6

Table 7.7 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.4	0.2	1.0	0.0	0.0
Good	4.2	3.5	6.5	4.7	0.0
Fair	46.8	51.8	42.7	47.1	49.0
Poor	30.2	28.1	32.5	26.7	33.0
Very Poor	18.3	16.5	17.2	21.4	18.0
Day, Alongshore					
Very Good	0.9	0.4	2.1	0.0	0.0
Good	10.1	7.7	13.5	11.9	0.0
Fair	81.6	82.5	77.1	81.7	95.8
Poor	7.4	9.5	7.3	6.4	4.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	21.1	26.6	10.8	24.8	26.4
Poor	47.1	43.3	55.9	40.0	46.9
Very Poor	31.7	30.1	33.4	35.2	26.7

Table 7.7 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.2	0.9	0.0	0.0
Good	5.0	5.8	11.9	5.4	0.1
Fair	54.9	56.1	50.1	51.4	59.0
Poor	21.8	22.8	14.9	21.0	25.6
Very Poor	18.0	15.1	22.3	22.1	15.2
Day, Offshore					
Very Good	0.5	0.4	1.4	0.0	0.0
Good	10.8	11.5	19.2	11.5	0.4
Fair	85.2	86.1	75.0	84.1	96.2
Poor	3.5	2.0	4.5	4.4	3.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	28.6	25.9	9.6	22.2	40.0
Poor	37.7	43.9	31.9	35.9	37.0
Very Poor	33.7	30.1	58.5	41.9	23.0

Table 7.8
Atlantic City, New Jersey
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.0	0.3	0.0	0.0
Good	5.4	4.8	13.9	2.8	0.1
Fair	61.4	66.4	50.5	60.4	68.4
Poor	23.4	21.1	26.4	23.9	22.2
Very Poor	9.7	7.7	8.9	12.9	9.3
Day, All Directions					
Very Good	0.2	0.0	0.5	0.0	0.0
Good	13.0	10.1	27.7	7.3	0.5
Fair	82.6	86.5	67.1	87.7	95.9
Poor	4.1	3.3	4.6	5.0	3.6
Very Poor	0.0	0.1	0.0	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	46.2	48.6	34.0	43.2	56.1
Poor	37.2	37.0	48.2	35.8	30.4
Very Poor	16.6	14.4	17.8	21.0	13.5

Table 7.8 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.0	0.2	0.0	0.0
Good	9.1	9.7	17.9	3.9	0.5
Fair	69.1	71.0	59.1	72.4	79.2
Poor	18.5	16.0	19.2	20.6	16.9
Very Poor	3.3	3.3	3.5	3.1	3.4
Day, Onshore					
Very Good	0.1	0.0	0.4	0.0	0.0
Good	17.7	17.2	32.6	8.0	1.1
Fair	80.1	80.6	66.4	89.6	93.5
Poor	2.1	2.2	0.7	2.4	5.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	57.6	58.4	50.1	55.7	69.5
Poor	35.7	33.9	42.1	38.2	24.8
Very Poor	6.7	7.7	7.8	6.1	5.7

Table 7.8 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	3.9	1.2	10.2	2.1	0.0
Fair	64.7	73.3	51.0	66.5	72.5
Poor	26.8	22.0	33.8	25.9	23.2
Very Poor	4.6	3.4	5.0	5.5	4.2
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	10.4	3.1	24.4	5.6	0.0
Fair	86.8	94.5	72.0	92.9	96.0
Poor	2.8	2.3	3.7	1.5	4.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	51.4	59.0	36.0	49.4	64.0
Poor	41.3	35.3	55.4	41.6	30.3
Very Poor	7.3	5.7	8.5	9.0	5.8

Table 7.8 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.1	0.0	0.6	0.0	0.0
Good	4.8	4.7	15.1	2.9	0.1
Fair	63.6	67.7	49.3	59.1	71.0
Poor	26.0	24.0	28.4	28.3	25.0
Very Poor	5.5	3.5	6.7	9.7	3.9
Day, Offshore					
Very Good	0.3	0.0	1.1	0.0	0.0
Good	11.5	9.7	26.9	8.4	0.4
Fair	86.7	90.0	69.0	89.1	98.5
Poor	1.5	0.3	3.0	2.5	1.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	47.2	46.8	24.3	43.8	57.9
Poor	43.5	46.3	60.6	41.5	36.4
Very Poor	9.3	6.9	15.1	14.7	5.7

Table 7.9
Wilmington, Delaware
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.3	0.0	0.0
Good	5.4	4.8	13.5	3.2	0.1
Fair	55.8	64.2	44.4	54.0	60.6
Poor	26.7	22.4	27.6	28.0	29.1
Very Poor	12.0	8.6	14.2	14.9	10.1
Day, All Directions					
Very Good	0.2	0.1	0.7	0.0	0.0
Good	13.0	10.2	26.9	8.2	0.4
Fair	80.8	85.8	66.2	84.3	92.9
Poor	5.6	3.8	5.7	7.1	6.2
Very Poor	0.4	0.1	0.5	0.4	0.4
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	37.9	45.3	22.7	35.0	45.9
Poor	41.9	38.8	49.5	41.0	39.6
Very Poor	20.2	15.9	27.9	24.0	14.6

Table 7.9 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.0	0.4	0.0	0.0
Good	5.4	6.4	11.5	3.0	0.6
Fair	64.8	70.6	58.4	65.4	64.9
Poor	24.1	17.3	24.7	26.3	28.1
Very Poor	5.5	5.7	5.0	5.3	6.4
Day, Onshore					
Very Good	0.3	0.0	0.9	0.0	0.0
Good	12.6	13.4	24.0	7.3	1.7
Fair	83.7	83.3	72.8	89.4	92.3
Poor	3.5	3.2	2.3	3.3	6.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	50.6	59.3	45.3	47.6	50.9
Poor	39.7	29.9	45.1	43.2	39.4
Very Poor	9.7	10.9	9.6	9.2	9.7

Table 7.9 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.0	0.9	0.0	0.0
Good	6.3	4.6	13.7	4.8	0.0
Fair	58.1	70.9	48.1	55.3	60.1
Poor	25.8	18.8	24.3	29.1	32.1
Very Poor	9.4	5.6	12.9	10.9	7.8
Day, Alongshore					
Very Good	0.5	0.0	1.6	0.0	0.0
Good	13.9	9.5	25.0	10.7	0.0
Fair	82.3	89.6	69.0	87.2	92.5
Poor	3.3	0.9	4.3	2.2	7.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	38.1	53.2	22.7	29.9	45.9
Poor	44.5	35.8	48.4	50.5	42.8
Very Poor	17.4	11.0	28.9	19.6	11.3

Table 7.9 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.1	0.1	0.2	0.0	0.0
Good	5.7	4.3	16.9	3.3	0.0
Fair	55.1	62.8	38.5	51.4	63.4
Poor	29.3	26.4	31.2	30.1	30.1
Very Poor	9.8	6.3	13.3	15.2	6.6
Day, Offshore					
Very Good	0.2	0.2	0.3	0.0	0.0
Good	13.8	9.0	32.3	9.4	0.0
Fair	83.4	88.2	65.4	87.1	97.0
Poor	2.6	2.5	2.0	3.5	3.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	35.1	39.7	9.0	32.0	47.8
Poor	48.2	48.2	63.1	44.5	42.6
Very Poor	16.7	12.1	27.9	23.5	9.6

Table 7.10
 Wallops Island, Virginia
 Percent of Hours in Each Diffusion Class
 by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions-					
Very Good	0.3	0.0	1.1	0.0	0.0
Good	10.1	9.9	23.8	7.3	0.6
Fair	66.5	68.9	58.0	68.7	70.2
Poor	17.2	16.9	12.4	16.5	22.2
Very Poor	5.9	4.3	4.8	7.5	7.1
Day, All Directions					
Very Good	0.4	0.0	1.4	0.0	0.0
Good	16.7	15.9	30.0	12.1	1.4
Fair	78.3	80.2	64.4	83.5	92.4
Poor	4.4	3.9	3.8	4.4	6.2
Very Poor	0.1	0.0	0.4	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	48.2	52.1	33.8	46.3	52.3
Poor	36.7	37.5	44.8	34.8	35.0
Very Poor	15.1	10.4	21.4	19.0	12.7

Table 7.10 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.5	0.0	1.5	0.0	0.0
Good	18.2	16.6	29.7	13.0	1.1
Fair	63.5	64.2	53.4	70.4	74.8
Poor	14.8	17.5	11.4	13.4	22.0
Very Poor	3.0	1.7	4.0	3.3	2.1
Day, Onshore					
Very Good	0.8	0.0	1.9	0.0	0.0
Good	25.5	24.3	37.0	18.4	2.0
Fair	70.0	72.8	58.8	77.7	86.8
Poor	3.7	2.9	2.2	3.9	11.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	47.0	45.3	31.3	52.3	58.7
Poor	42.5	51.0	48.6	36.0	36.4
Very Poor	10.6	3.7	20.1	11.7	4.9

Table 7.10 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	3.0	1.8	12.4	0.9	0.0
Fair	72.0	73.1	70.1	74.3	71.4
Poor	19.7	20.6	14.6	17.8	22.8
Very Poor	5.2	4.5	3.0	7.0	5.8
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	6.3	3.7	17.7	1.7	0.0
Fair	90.2	90.7	81.7	94.5	94.8
Poor	3.5	5.6	0.6	3.8	5.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	54.5	59.0	43.4	50.5	58.3
Poor	35.1	32.0	46.9	34.2	32.5
Very Poor	10.5	9.1	9.8	15.3	9.1

Table 7.10 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.0	1.1	0.0	0.0
Good	7.2	9.0	22.8	5.1	0.8
Fair	70.3	73.5	65.3	65.7	71.9
Poor	16.8	13.6	6.0	19.9	22.2
Very Poor	5.6	4.0	4.9	9.3	5.1
Day, Offshore					
Very Good	0.2	0.0	1.2	0.0	0.0
Good	12.1	13.8	26.2	9.2	1.8
Fair	85.4	84.4	70.7	86.7	96.4
Poor	2.2	1.8	1.9	4.1	1.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	48.4	53.8	29.0	40.3	50.6
Poor	37.7	34.8	33.6	39.5	40.1
Very Poor	13.9	11.4	37.4	20.2	9.3

Table 7.11
Norfolk, Virginia
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.3	0.0	0.0
Good	6.9	8.2	14.1	4.7	0.5
Fair	60.7	64.1	48.3	58.9	71.8
Poor	24.4	23.0	27.0	24.9	22.4
Very Poor	7.9	4.6	10.3	11.5	5.3
Day, All Directions					
Very Good	0.2	0.1	0.5	0.0	0.0
Good	16.4	17.7	28.3	11.9	1.5
Fair	81.0	80.1	67.9	85.7	96.8
Poor	2.4	2.0	3.3	2.4	1.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	45.9	50.1	28.7	41.5	59.6
Poor	40.4	41.2	50.8	39.5	32.5
Very Poor	13.7	8.6	20.5	19.0	7.9

Table 7.11 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.2	0.2	0.4	0.0	0.0
Good	7.2	7.6	14.3	3.8	0.4
Fair	54.0	56.8	45.6	56.7	59.4
Poor	28.6	28.4	28.5	28.3	29.5
Very Poor	10.0	7.0	11.4	11.2	10.7
Day, Onshore					
Very Good	0.4	0.4	0.7	0.0	0.0
Good	17.3	18.0	28.8	9.8	1.3
Fair	79.5	77.9	67.4	88.6	96.3
Poor	2.8	3.7	3.1	1.7	2.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.2	41.5	25.0	36.9	43.3
Poor	46.7	46.4	52.6	45.0	41.3
Very Poor	17.1	12.1	22.4	18.2	15.4

Table 7.11 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours,, Alongshore					
Very Good	0.1	0.0	0.3	0.0	0.0
Good	7.2	8.0	14.8	6.0	0.5
Fair	62.5	66.7	48.5	60.3	74.5
Poor	24.4	22.2	29.4	25.0	20.5
Very Poor	5.8	3.2	7.0	8.6	4.5
Day, Alongshore					
Very Good	0.2	0.0	0.7	0.0	0.0
Good	17.5	17.7	31.3	14.2	1.5
Fair	80.6	80.6	66.9	83.1	97.0
Poor	1.7	1.7	1.1	2.8	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	49.9	55.3	32.1	43.7	64.3
Poor	40.2	39.0	54.6	41.3	29.2
Very Poor	9.8	5.7	13.2	14.9	6.5

Table 7.11 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	6.5	9.6	14.2	4.7	0.6
Fair	69.1	68.7	58.7	67.5	75.9
Poor	19.8	19.8	19.7	18.1	21.1
Very Poor	4.6	1.9	7.4	9.6	2.4
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	14.2	18.2	23.6	11.8	1.6
Fair	85.0	81.4	75.3	86.4	97.8
Poor	0.8	0.4	1.1	1.7	0.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	55.8	54.6	34.2	55.9	63.8
Poor	35.8	41.5	47.5	28.3	32.5
Very Poor	8.4	3.9	18.3	15.8	3.8

Table 7.12
Cape Hatteras, North Carolina
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	6.3	8.2	12.9	3.2	0.8
Fair	69.9	71.3	62.8	68.9	76.9
Poor	20.1	16.8	20.2	25.1	18.4
Very Poor	3.7	3.7	4.1	2.9	4.0
Day, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	14.8	17.6	25.8	7.9	2.3
Fair	83.6	81.7	71.7	90.2	96.4
Poor	1.6	0.7	2.3	1.9	1.3
Very Poor	0.0	0.0	0.1	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	59.8	62.1	53.8	54.8	67.2
Poor	33.8	31.0	38.0	40.4	26.9
Very Poor	6.3	6.9	8.2	4.8	5.9

Table 7.12 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	9.7	11.0	17.2	4.7	1.9
Fair	63.4	63.1	54.9	67.0	73.8
Poor	22.8	21.1	23.3	25.2	20.4
Very Poor	4.1	4.8	4.6	3.1	4.0
Day, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	20.3	22.1	31.9	10.8	4.6
Fair	78.5	77.4	66.4	88.7	91.9
Poor	1.3	0.5	1.7	0.5	3.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	49.7	48.9	41.3	50.6	60.1
Poor	42.4	41.4	48.3	43.9	33.0
Very Poor	7.9	9.7	10.4	5.5	6.8

Table 7.12 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	7.4	9.7	13.0	3.0	0.8
Fair	75.2	73.8	70.5	74.7	84.0
Poor	16.3	14.7	15.5	21.8	13.9
Very Poor	1.2	1.8	1.0	0.5	1.2
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	16.2	20.2	25.3	7.1	2.3
Fair	83.1	79.5	74.4	91.6	96.7
Poor	0.6	0.3	0.3	1.3	1.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	68.6	68.2	66.6	62.4	76.8
Poor	29.3	28.2	31.4	36.6	21.2
Very Poor	2.1	3.6	2.0	0.9	1.9

Table 7.12 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	2.5	3.8	7.5	1.8	0.4
Fair	72.0	77.8	60.8	66.5	75.6
Poor	23.0	16.9	27.4	29.1	21.8
Very Poor	2.4	1.5	4.3	2.6	2.2
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	7.0	8.7	17.1	5.3	1.5
Fair	92.2	90.7	80.8	93.2	98.5
Poor	0.8	0.6	2.1	1.4	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	60.7	67.6	45.6	52.4	66.0
Poor	35.6	29.8	47.0	43.7	30.9
Very Poor	3.7	2.6	7.4	3.9	3.1

Table 7.13
Wilmington, North Carolina
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.6	0.0	0.0
Good	6.9	9.6	11.6	5.0	1.2
Fair	49.4	51.4	42.0	48.4	56.1
Poor	23.6	23.4	25.4	23.1	22.5
Very Poor	19.8	15.3	20.4	23.5	20.2
Day, All Directions					
Very Good	0.5	0.6	1.2	0.0	0.0
Good	15.8	21.1	23.2	12.3	3.1
Fair	78.5	76.0	67.5	82.3	92.6
Poor	5.0	2.4	7.9	5.4	3.9
Very Poor	0.1	0.0	0.1	0.0	0.4
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	27.0	30.6	16.4	25.1	34.2
Poor	38.0	41.2	42.9	35.3	33.7
Very Poor	35.0	28.2	40.6	39.7	32.1

Table 7.13 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore:					
Very Good	0.4	0.9	0.6	0.0	0.0
Good	10.3	10.2	15.3	9.9	1.8
Fair	55.4	54.5	47.7	58.8	64.8
Poor	20.6	20.6	24.1	15.8	21.1
Very Poor	13.3	13.9	12.3	15.4	12.4
Day, Onshore					
Very Good	0.7	1.7	1.1	0.0	0.0
Good	18.5	20.8	25.9	16.6	3.3
Fair	78.2	77.1	69.9	80.7	92.2
Poor	2.5	0.4	3.1	2.7	4.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	27.3	32.7	16.3	26.4	33.8
Poor	43.0	39.9	54.1	35.4	39.7
Very Poor	29.7	27.3	29.6	38.2	26.5

Table 7.13 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.1	0.3	0.0	0.0	0.0
Good	4.6	6.9	7.5	2.9	1.1
Fair	54.8	57.8	48.9	48.9	63.2
Poor	31.7	27.4	33.9	36.4	29.3
Very Poor	8.8	7.7	9.7	11.7	6.4
Day, Alongshore					
Very Good	0.1	0.7	0.0	0.0	0.0
Good	11.8	16.7	17.1	8.2	3.3
Fair	85.8	81.5	80.2	87.9	94.9
Poor	2.3	1.1	2.6	3.9	1.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	34.7	40.5	24.4	27.3	46.3
Poor	50.8	46.4	58.4	54.5	43.9
Very Poor	14.5	13.2	17.2	18.2	9.8

Table 7.13 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.3	0.0	1.7	0.0	0.0
Good	8.9	13.5	18.4	5.3	1.3
Fair	58.6	55.7	49.5	60.2	66.5
Poor	24.6	25.8	20.1	25.8	25.5
Very Poor	7.5	5.0	10.4	8.7	6.7
Day, Offshore					
Very Good	0.6	0.0	2.7	0.0	0.0
Good	17.7	24.8	29.2	12.2	2.9
Fair	80.3	75.0	65.8	85.8	95.6
Poor	1.4	0.3	2.3	2.0	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.8	32.6	21.8	40.1	44.2
Poor	48.1	56.4	50.2	44.4	44.0
Very Poor	15.1	11.0	28.0	15.5	11.9

Table 7.14
Charleston, South Carolina
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.4	0.5	0.1	0.0
Good	7.9	11.3	13.2	5.5	1.5
Fair	48.6	49.1	44.0	45.4	56.0
Poor	26.5	25.2	27.5	28.0	25.4
Very Poor	16.7	14.0	14.8	21.0	17.0
Day, All Directions					
Very Good	0.6	0.9	1.0	0.2	0.0
Good	18.5	25.2	26.5	14.1	4.1
Fair	77.6	71.8	66.6	84.7	92.0
Poor	3.4	2.1	6.0	1.1	3.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	26.9	30.7	21.3	20.3	34.4
Poor	43.9	44.0	49.0	45.3	38.3
Very Poor	29.2	25.4	29.6	34.5	27.2

Table 7.14 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.2	0.2	0.3	0.0	0.0
Good	7.8	10.4	10.3	6.6	1.5
Fair	46.5	45.9	43.0	47.1	51.0
Poor	30.5	29.0	32.4	29.3	31.4
Very Poor	15.0	14.5	13.9	17.0	16.2
Day, Onshore					
Very Good	0.4	0.4	0.7	0.0	0.0
Good	18.9	25.5	23.7	13.7	4.2
Fair	78.4	72.9	71.3	86.3	92.2
Poor	2.3	1.1	4.4	0.0	3.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.8	27.2	21.3	12.5	29.6
Poor	50.6	48.2	54.0	55.3	45.8
Very Poor	25.6	24.6	24.7	32.2	24.7

Table 7.14 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Alongshore					
Very Good	0.1	0.3	0.0	0.0	0.0
Good	8.5	8.6	15.4	7.8	2.1
Fair	52.8	56.8	45.6	47.4	61.3
Poor	28.5	26.6	29.0	32.2	26.4
Very Poor	10.1	7.6	10.0	12.6	10.2
Day, Alongshore					
Very Good	0.2	0.6	0.0	0.0	0.0
Good	18.2	18.7	29.3	17.8	4.9
Fair	79.1	79.6	66.7	81.5	90.9
Poor	2.6	1.1	4.0	0.8	4.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	30.0	37.5	22.6	21.3	38.7
Poor	51.1	48.5	56.5	56.7	43.4
Very Poor	18.9	14.0	20.9	22.0	17.9

Table 7.14 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.4	0.8	1.1	0.2	0.0
Good	8.5	14.9	17.6	4.0	1.5
Fair	53.5	53.3	48.8	47.0	65.0
Poor	23.6	20.3	20.4	27.8	23.2
Very Poor	14.0	10.8	12.1	21.0	10.3
Day, Offshore					
Very Good	1.0	1.5	1.8	0.5	0.0
Good	18.6	20.9	28.3	11.4	3.7
Fair	77.8	69.6	63.8	86.4	94.3
Poor	2.6	0.0	6.2	1.7	2.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	33.1	36.3	24.5	26.1	44.5
Poor	41.3	41.7	43.8	41.9	38.1
Very Poor	25.7	22.0	31.8	32.0	17.5

Table 7.15
Brunswick, Georgia
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.5	0.8	1.2	0.0	0.0
Good	7.6	11.9	11.0	5.4	1.8
Fair	35.0	33.6	31.6	34.3	40.6
Poor	19.4	20.0	21.1	15.9	20.4
Very Poor	37.6	33.7	35.1	44.3	37.2
Day, All Directions					
Very Good	1.2	1.9	2.3	0.0	0.0
Good	17.9	27.0	22.0	14.5	4.8
Fair	69.0	61.1	57.7	79.9	82.9
Poor	11.3	9.9	17.0	5.1	11.7
Very Poor	0.6	0.2	1.0	0.5	0.6
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	10.1	11.9	5.4	7.0	15.2
Poor	25.3	28.0	25.3	22.4	25.7
Very Poor	64.7	60.1	69.3	70.5	59.1

Table 7.15 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very good	0.8	1.3	1.5	0.0	0.0
Good	12.5	19.0	18.3	7.1	2.4
Fair	48.0	38.1	42.6	54.9	61.5
Poor	19.4	19.0	21.3	17.3	20.5
Very Poor	19.3	22.6	16.3	20.8	15.6
Day, Onshore					
Very Good	1.3	2.3	2.4	0.0	0.0
Good	21.6	34.4	29.7	11.7	4.4
Fair	72.2	59.7	62.9	84.7	87.5
Poor	4.9	3.6	5.0	3.6	8.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	14.7	11.5	9.4	10.0	30.6
Poor	39.6	38.0	47.3	38.2	35.7
Very Poor	45.8	50.5	43.2	51.8	33.7

Table 7.15 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.6	1.6	1.1	0.0	0.0
Good	8.1	12.2	9.3	8.6	2.7
Fair	40.7	42.3	30.4	42.9	47.6
Poor	26.3	27.4	24.8	26.8	24.5
Very Poor	24.3	16.5	34.4	21.7	25.1
Day, Alongshore					
Very Good	1.5	3.5	2.8	0.0	0.0
Good	20.1	29.8	22.8	21.0	6.7
Fair	71.8	64.2	64.6	75.3	82.8
Poor	6.6	2.5	9.8	3.7	10.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	19.4	28.4	6.8	20.1	23.7
Poor	39.7	43.6	35.2	43.1	34.1
Very Poor	40.8	28.0	58.1	36.8	42.2

Table 7.15 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.6	0.6	1.8	0.0	0.0
Good	8.6	11.7	14.1	6.8	2.2
Fair	44.8	42.6	46.0	40.0	50.0
Poor	22.4	22.0	17.7	20.9	26.9
Very Poor	23.7	23.1	20.4	32.3	21.0
Day, Offshore					
Very Good	1.1	1.2	2.8	0.0	0.0
Good	16.8	23.0	22.2	15.1	4.8
Fair	75.0	69.1	67.0	80.6	86.8
Poor	7.1	6.7	7.9	4.3	8.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	13.5	14.9	9.4	7.2	19.7
Poor	38.4	37.9	35.7	34.3	42.1
Very Poor	48.1	47.2	54.9	58.5	38.2

Table 7.16
Cape Kennedy, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.3	0.3	0.0
Good	11.9	15.6	18.0	10.0	3.8
Fair	38.5	38.9	31.0	36.0	48.2
Poor	22.3	23.3	23.3	20.9	21.6
Very Poor	27.1	21.9	27.4	32.8	26.3
Day, All Directions					
Very Good	0.5	0.6	0.5	0.7	0.0
Good	28.1	35.4	36.1	26.4	10.2
Fair	65.6	59.7	53.3	69.7	85.5
Poor	5.4	4.3	9.5	2.4	4.3
Very Poor	0.3	0.0	0.5	0.7	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	18.4	22.4	8.7	15.4	25.9
Poor	34.7	38.4	37.0	32.2	32.0
Very Poor	46.8	39.2	54.3	52.4	42.1

Table 7.16 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Onshore					
Very Good	0.4	0.4	0.4	0.5	0.0
Good	18.8	23.8	30.7	13.4	5.1
Fair	40.3	35.7	31.8	42.9	54.1
Poor	19.3	20.9	17.4	20.4	17.1
Very Poor	21.3	19.2	19.8	22.9	23.6
Day, Onshore					
Very Good	0.7	0.8	0.6	1.1	0.0
Good	36.4	44.9	48.8	29.2	11.3
Fair	60.5	52.9	46.8	68.5	84.9
Poor	2.4	1.4	3.8	1.2	3.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	18.8	16.3	6.3	21.1	28.6
Poor	37.3	42.4	39.5	36.8	28.0
Very Poor	43.9	41.3	54.2	42.1	43.4

Table 7.16 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.4	0.5	0.0	0.0
Good	9.6	12.4	16.3	9.0	3.0
Fair	43.1	43.0	32.3	37.5	54.1
Poor	24.2	23.6	27.3	21.2	24.5
Very Poor	22.9	20.6	23.6	32.4	18.4
Day, Alongshore					
Very Good	0.6	1.1	1.3	0.0	0.0
Good	24.0	30.4	37.8	25.5	7.4
Fair	73.2	66.8	58.6	72.8	89.8
Poor	2.2	1.7	2.4	1.8	2.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.0	26.9	12.4	18.3	29.9
Poor	38.8	38.5	45.9	31.7	39.1
Very Poor	38.1	34.5	41.6	49.9	31.0

Table 7.16 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	7.6	9.8	9.2	6.2	4.5
Fair	39.8	44.2	38.0	29.6	43.8
Poor	25.0	25.3	23.8	28.2	24.0
Very Poor	27.6	20.7	28.9	36.1	27.6
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	20.7	25.3	21.2	20.4	13.8
Fair	76.5	72.7	74.9	78.1	83.0
Poor	2.8	2.0	3.9	1.5	3.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	18.7	26.7	10.0	8.6	25.0
Poor	37.8	39.7	39.7	39.8	34.1
Very Poor	43.5	33.6	50.2	51.6	41.0

Table 7.17
Orlando, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.4	0.5	0.7	0.3	0.0
Good	9.0	12.6	12.0	7.2	4.1
Fair	45.5	47.0	41.0	40.2	53.7
Poor	28.3	26.4	30.5	32.1	24.2
Very Poor	16.8	13.5	15.8	20.2	18.0
Day, All Directions					
Very Good	0.9	1.2	1.4	0.7	0.0
Good	21.4	28.8	24.2	19.2	10.9
Fair	72.9	64.9	65.6	78.6	86.5
Poor	4.8	5.1	8.6	1.5	2.4
Very Poor	0.1	0.0	0.1	0.0	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	25.5	33.1	16.8	17.3	34.0
Poor	45.5	43.0	52.0	50.4	37.3
Very Poor	29.0	24.0	31.1	32.3	28.7

Table 7.17 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.3	0.4	0.7	0.3	0.0
Good	9.1	14.3	10.6	7.3	5.7
Fair	47.6	50.9	45.7	42.1	54.7
Poor	32.6	27.9	33.1	37.5	28.8
Very Poor	10.3	6.5	10.0	12.9	10.8
Day, Onshore					
Very Good	0.7	0.9	1.2	0.7	0.0
Good	20.7	31.0	21.5	17.6	13.5
Fair	76.3	66.0	72.4	81.4	84.5
Poor	2.2	2.0	4.9	0.4	2.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	25.0	38.1	19.0	14.4	34.5
Poor	56.5	49.8	61.2	63.7	47.2
Very Poor	18.5	12.1	19.7	22.0	18.3

Table 7.17 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.7	0.6	1.8	0.4	0.0
Good	8.5	9.2	13.9	8.7	2.8
Fair	47.1	46.3	38.5	43.5	57.8
Poor	33.4	34.0	34.3	38.5	27.8
Very Poor	10.4	9.8	11.4	8.8	11.6
Day, Alongshore					
Very Good	1.7	1.4	3.8	1.1	0.0
Good	21.6	21.7	28.9	25.5	8.8
Fair	73.5	71.8	63.6	70.5	91.2
Poor	3.1	5.1	3.7	2.8	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	29.9	27.4	14.9	29.4	41.7
Poor	52.9	55.4	63.1	57.1	41.2
Very Poor	17.2	17.1	22.0	13.4	17.1

Table 7.17 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.4	0.9	0.2	0.4	0.0
Good	12.1	16.4	15.7	8.6	4.9
Fair	55.5	54.2	49.0	51.9	66.9
Poor	24.2	22.1	26.8	25.8	22.4
Very Poor	7.9	6.4	8.3	13.3	5.7
Day, Offshore					
Very Good	0.7	1.7	0.3	0.8	0.0
Good	23.7	33.3	27.7	17.7	10.1
Fair	73.8	64.2	68.8	79.9	80.5
Poor	1.8	0.8	3.2	1.5	1.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.4	44.4	23.5	25.4	46.3
Poor	47.5	42.8	57.3	48.6	42.6
Very Poor	16.1	12.7	19.2	26.0	11.1

Table 7.18
Miami, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.0	0.0	0.1	0.1	0.0
Good	9.4	11.4	15.6	7.6	2.9
Fair	49.0	52.4	40.6	46.6	56.3
Poor	30.4	29.3	28.1	34.8	29.7
Very Poor	11.1	6.8	15.6	11.0	11.1
Day, All Directions					
Very Good	0.1	0.0	0.1	0.2	0.0
Good	22.2	25.8	31.3	20.1	7.8
Fair	75.2	72.0	63.7	79.2	90.7
Poor	2.5	2.2	4.9	0.5	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	29.7	37.0	17.5	27.0	35.7
Poor	51.0	50.9	51.2	55.4	46.6
Very Poor	19.3	12.2	31.3	17.6	17.8

Table 7.18 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.0	0.0	0.1	0.0	0.0
Good	11.7	12.8	21.0	8.3	2.8
Fair	54.0	56.7	42.6	54.8	63.9
Poor	27.5	26.9	26.7	29.7	26.3
Very Poor	6.7	3.6	9.7	7.2	7.0
Day, Onshore					
Very Good	0.1	0.0	0.2	0.0	0.0
Good	24.9	26.7	38.2	19.4	6.6
Fair	74.2	72.6	59.8	80.6	92.7
Poor	0.9	0.7	1.8	0.0	0.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.1	42.4	21.9	35.6	42.1
Poor	51.2	50.5	56.6	51.8	45.6
Very Poor	12.8	7.1	21.4	12.6	12.3

Table 7.18 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.0	0.0	0.7	0.0
Good	8.8	16.4	6.0	9.2	4.1
Fair	44.5	38.3	41.4	45.2	52.9
Poor	31.7	35.2	28.0	30.6	32.9
Very Poor	14.8	10.1	24.6	14.2	10.1
Day, Alongshore					
Very good	0.5	0.0	0.0	1.7	0.0
Good	20.8	37.7	14.6	21.1	10.0
Fair	73.4	55.5	76.3	75.5	84.9
Poor	5.3	6.9	9.1	1.7	5.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.6	24.9	18.2	21.3	32.1
Poor	51.0	57.5	41.2	53.8	51.2
Very Poor	25.3	17.6	40.6	24.9	16.7

Table 7.18 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	5.4	7.5	7.1	5.8	2.4
Fair	40.7	46.2	35.2	32.4	46.6
Poor	35.6	33.6	31.0	44.4	33.6
Very Poor	18.3	12.7	26.7	17.4	17.4
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	15.9	19.6	16.0	22.3	8.1
Fair	78.6	75.9	71.4	76.1	90.3
Poor	5.5	4.4	12.6	1.7	1.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	21.7	27.5	8.2	16.9	28.4
Poor	50.8	52.0	45.5	59.5	47.1
Very Poor	27.5	20.4	46.3	23.6	24.6

Table 7.19
Fort Myers, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.3	0.2	0.8	0.3	0.0
Good	10.9	14.9	15.6	8.9	4.0
Fair	39.3	40.0	34.4	35.5	47.6
Poor	30.2	29.9	27.4	31.3	32.0
Very Poor	19.3	15.0	21.8	24.0	16.4
Day, All Directions					
Very Good	0.8	0.5	1.7	0.7	0.0
Good	26.1	34.3	32.2	23.8	10.7
Fair	69.5	61.8	59.4	73.4	88.0
Poor	3.6	3.4	6.6	2.0	1.3
Very Poor	0.0	0.0	0.1	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	17.7	23.4	10.9	12.7	23.3
Poor	49.2	50.1	47.0	48.9	50.4
Very Poor	33.3	26.5	42.1	38.4	26.2

Table 7.19 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.3	0.2	0.6	1.0	0.0
Good	18.4	21.2	26.2	15.9	6.0
Fair	51.4	49.3	44.4	55.3	61.0
Poor	25.8	27.3	24.4	19.6	28.6
Very Poor	4.1	2.1	4.4	8.2	4.3
Day, Onshore					
Very Good	0.5	0.3	0.8	1.5	0.0
Good	30.3	38.3	38.0	23.7	10.8
Fair	68.5	61.4	59.3	74.1	89.2
Poor	0.7	0.0	2.0	0.7	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	25.6	34.4	12.0	16.7	27.1
Poor	64.1	60.9	74.1	58.4	63.2
Very Poor	10.3	4.7	13.8	24.9	9.8

Table 7.19 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.4	0.8	0.8	0.0	0.0
Good	10.6	11.6	15.4	9.6	5.4
Fair	47.2	43.2	42.3	46.1	56.1
Poor	31.3	36.2	25.6	31.1	32.2
Very Poor	10.5	8.4	15.9	13.2	6.3
Day, Alongshore					
Very Good	1.0	2.1	1.6	0.0	0.0
Good	24.6	30.8	31.4	19.7	13.4
Fair	72.3	62.2	66.1	77.5	85.8
Poor	2.2	4.9	0.9	2.8	0.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	28.1	31.9	19.7	18.1	34.3
Poor	53.5	54.8	49.3	56.6	55.2
Very Poor	18.4	13.4	31.0	25.3	10.5

Table 7.19 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.3	0.0	1.2	0.2	0.0
Good	9.8	13.9	13.9	9.1	3.5
Fair	39.1	38.4	34.6	36.0	47.7
Poor	36.7	35.5	32.8	39.0	38.8
Very Poor	14.0	12.2	17.5	15.7	10.1
Day, Offshore					
Very Good	0.9	0.0	2.7	0.6	0.0
Good	24.8	33.5	30.8	25.0	9.7
Fair	72.2	65.3	62.3	73.0	89.5
Poor	2.1	1.2	4.3	1.4	0.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	17.7	19.3	11.8	15.0	24.9
Poor	59.2	59.8	56.3	60.3	59.7
Very Poor	23.1	20.8	31.9	24.6	15.4

Table 7.20
Tampa, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.0	0.1	0.1	0.0
Good	8.7	12.2	12.7	6.0	4.0
Fair	45.9	47.2	42.7	42.9	50.9
Poor	30.3	27.0	30.3	36.1	27.5
Very Poor	15.1	13.6	14.3	14.8	17.6
Day, All Directions					
Very Good	0.1	0.0	0.1	0.4	0.0
Good	21.0	28.2	26.4	15.9	10.6
Fair	76.1	69.9	67.2	82.8	88.1
Poor	2.8	1.9	6.1	0.9	1.3
Very Poor	0.0	0.0	0.1	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	24.4	30.1	19.9	19.0	28.5
Poor	49.8	46.1	52.7	57.3	43.3
Very Poor	25.7	23.9	27.4	23.7	28.2

Table 7.20 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.0	0.2	0.5	0.0
Good	15.8	18.5	21.8	11.0	7.5
Fair	55.5	52.5	51.8	61.2	60.8
Poor	21.5	23.2	22.3	18.0	19.9
Very Poor	7.1	5.8	3.9	9.3	11.8
Day, Onshore					
Very Good	0.2	0.0	0.3	0.7	0.0
Good	26.8	34.5	33.6	16.3	13.5
Fair	72.1	65.5	64.6	81.6	85.3
Poor	0.9	0.0	1.5	1.4	1.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	31.7	37.7	28.5	17.2	31.5
Poor	51.0	49.9	60.4	53.9	42.6
Very Poor	17.3	12.4	11.1	28.9	25.8

Table 7.20 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.1	0.0	0.0	0.4	0.0
Good	7.4	11.3	12.1	4.8	2.5
Fair	50.2	49.6	46.2	46.0	56.4
Poor	33.3	29.0	34.4	39.5	32.0
Very Poor	9.0	10.1	7.2	9.3	9.1
Day, Alongshore					
Very Good	0.2	0.0	0.0	0.9	0.0
Good	18.1	26.1	25.3	12.9	6.9
Fair	79.7	71.6	70.2	86.2	93.1
Poor	2.0	2.3	4.5	0.0	0.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	00.0	0.0	0.0	0.0	0.0
Fair	29.7	33.8	24.3	21.6	35.4
Poor	55.2	48.7	61.8	63.6	50.5
Very Poor	15.2	17.5	13.9	14.8	14.0

Table 7.20 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	5.8	8.5	7.1	5.4	3.2
Fair	42.6	44.5	39.5	40.2	46.2
Poor	36.3	34.3	36.2	41.4	31.3
Very Poor	15.3	12.7	17.2	13.1	19.3
Day, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	17.1	23.1	19.2	16.6	10.2
Fair	80.7	73.8	77.1	82.4	87.9
Poor	2.3	3.2	3.7	1.0	1.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	22.8	27.1	17.5	20.2	27.1
Poor	53.9	52.9	55.3	60.5	44.7
Very Poor	23.2	20.1	27.2	19.3	28.2

Table 7.21
Tallahassee, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.5	0.5	1.4	0.1	0.0
Good	9.9	12.1	15.0	9.0	3.3
Fair	38.9	41.0	28.1	36.1	50.6
Poor	21.4	20.9	23.4	20.7	20.8
Very Poor	29.3	25.6	32.1	34.1	25.2
Day, All Directions					
Very Good	1.2	1.1	3.0	0.4	0.0
Good	24.0	28.4	31.8	24.0	8.9
Fair	66.7	64.7	50.3	72.2	84.8
Poor	7.8	5.8	14.3	3.5	6.1
Very Poor	0.2	0.0	0.6	0.0	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	19.3	23.4	8.2	14.4	30.1
Poor	31.0	32.0	31.5	31.0	29.7
Very Poor	49.7	44.6	60.3	54.6	40.2

Table 7.21. (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.6	0.7	1.0	0.4	0.0
Good	10.8	13.7	13.8	10.8	4.0
Fair	52.0	53.4	36.9	50.0	68.5
Poor	21.1	21.0	25.7	17.6	17.7
Very Poor	15.5	11.2	22.6	21.2	9.7
Day, Onshore					
Very Good	1.1	1.5	1.9	0.8	0.0
Good	22.0	27.6	27.4	19.7	8.6
Fair	73.6	70.2	64.6	75.8	88.2
Poor	3.3	0.7	6.1	3.7	3.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	31.0	36.8	9.2	20.0	51.4
Poor	38.4	40.9	45.2	33.9	30.3
Very Poor	30.6	22.3	45.7	46.1	18.3

Table 7.21 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Alongshore					
Very Good	0.3	0.7	0.7	0.0	0.0
Good	10.7	10.1	16.2	9.9	4.4
Fair	41.4	40.2	29.5	42.9	59.7
Poor	26.8	31.3	28.8	25.2	20.7
Very Poor	20.7	17.7	24.9	22.1	15.1
Day, Alongshore					
Very Good	0.8	1.8	1.6	0.0	0.0
Good	25.4	25.3	38.1	25.3	9.0
Fair	69.6	71.9	51.8	73.0	86.8
Poor	4.2	1.0	8.5	1.7	4.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	20.9	18.1	12.9	23.0	34.7
Poor	43.3	52.1	43.8	40.4	36.1
Very Poor	35.9	29.7	43.4	36.5	29.2

Table 7.21 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.8	0.4	3.4	0.2	0.0
Good	13.3	17.0	25.8	11.2	4.2
Fair	43.8	45.6	31.4	39.6	55.7
Poor	24.4	20.6	17.9	26.3	28.9
Very Poor	17.7	16.3	21.4	22.7	11.2
Day, Offshore					
Very Good	1.7	0.8	5.7	0.4	0.0
Good	28.4	34.7	42.6	26.4	10.1
Fair	66.4	62.5	44.8	71.0	86.8
Poor	3.5	1.9	6.9	2.2	3.1
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.7	29.4	10.8	16.8	33.7
Poor	42.9	38.5	35.0	43.7	47.2
Very Poor	33.4	32.0	54.2	39.4	19.1

Table 7.22
Pensacola, Florida
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.5	0.0	0.0
Good	9.3	12.4	13.8	8.3	2.8
Fair	45.7	47.7	33.8	40.3	61.0
Poor	28.2	24.9	30.1	34.9	23.0
Very Poor	16.5	14.7	21.7	16.5	13.2
Day, All Directions					
Very Good	0.6	0.8	1.2	0.0	0.0
Good	23.3	30.3	30.9	22.2	7.4
Fair	70.7	64.8	58.8	74.0	88.3
Poor	5.2	3.8	8.7	3.5	4.3
Very Poor	0.3	0.2	0.5	0.4	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	28.9	35.9	13.6	20.1	44.7
Poor	43.7	39.4	47.4	53.7	34.2
Very Poor	27.5	24.7	38.9	26.2	21.1

Table 7.22 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.4	0.2	1.4	0.0	0.0
Good	14.3	15.8	23.3	13.5	3.4
Fair	57.0	59.1	42.0	54.0	74.2
Poor	22.4	21.9	25.8	23.6	16.2
Very Poor	5.9	3.0	7.5	8.9	6.3
Day, Onshore					
Very Good	0.7	0.3	2.2	0.0	0.0
Good	27.5	32.3	39.7	23.7	7.0
Fair	70.6	66.8	57.1	75.0	90.7
Poor	1.2	0.6	0.9	1.3	2.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	42.1	51.6	20.9	22.2	58.9
Poor	45.5	42.5	60.6	53.7	28.9
Very Poor	12.4	5.9	18.5	24.1	12.2

Table 7.22 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.4	0.5	0.0	0.0
Good	7.2	8.9	8.9	8.2	1.9
Fair	46.2	41.7	41.0	41.6	62.6
Poor	36.3	38.0	37.1	38.4	29.7
Very Poor	10.0	10.9	12.4	11.8	5.8
Day, Alongshore					
Very Good	0.6	1.5	1.1	0.0	0.0
Good	20.0	25.9	21.0	24.2	5.7
Fair	73.4	65.4	69.8	71.9	89.9
Poor	6.1	7.1	8.1	3.9	4.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	30.3	29.3	19.5	24.6	49.2
Poor	53.8	54.6	58.9	57.0	42.1
Very Poor	15.8	16.1	21.6	18.4	8.7

Table 7.22 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.8	0.0	0.0	0.0
Good	7.7	12.3	13.3	5.8	3.4
Fair	45.3	45.7	27.3	39.1	62.3
Poor	34.1	27.7	39.4	41.8	27.6
Very Poor	12.8	13.6	19.9	13.3	6.7
Day, Offshore					
Very Good	0.4	1.9	0.0	0.0	0.0
Good	20.8	31.3	32.5	18.5	8.8
Fair	74.3	63.4	55.8	79.0	88.7
Poor	4.5	3.3	11.8	2.5	2.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	28.5	33.9	7.7	20.9	45.8
Poor	51.3	43.4	58.4	59.8	43.3
Very Poor	20.3	22.7	33.9	19.3	10.9

Table 7.23
Mobile, Alabama
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.6	0.1	0.0
Good	6.6	8.6	10.5	5.6	1.6
Fair	51.8	56.5	38.1	44.4	68.4
Poor	28.6	26.8	35.9	29.5	21.9
Very Poor	12.8	7.9	14.9	20.5	8.1
Day, All Directions					
Very Good	0.6	0.7	1.4	0.2	0.0
Good	16.4	21.4	23.3	14.8	4.3
Fair	78.4	74.6	67.7	81.3	92.8
Poor	4.5	3.4	7.7	3.5	3.0
Very Poor	0.0	0.0	0.0	0.2	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	33.9	44.3	13.5	22.2	53.8
Poor	44.7	42.5	59.2	45.1	33.3
Very Poor	21.4	13.2	27.2	32.7	12.9

Table 7.23 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.2	0.3	0.3	0.0	0.0
Good	5.5	7.8	7.4	3.2	1.6
Fair	55.5	59.9	41.2	49.2	69.0
Poor	30.1	25.7	39.9	31.0	23.7
Very Poor	8.8	6.3	11.2	16.6	5.7
Day, Onshore					
Very Good	0.4	0.7	0.8	0.0	0.0
Good	13.7	20.6	17.6	7.7	4.2
Fair	82.1	76.2	76.4	89.7	92.0
Poor	3.8	2.5	5.3	2.6	3.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	37.8	49.6	15.8	19.6	54.5
Poor	47.5	40.2	64.9	51.4	36.2
Very Poor	14.7	10.2	19.3	29.0	9.3

Table 7.23 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Alongshore					
Very Good	0.4	0.9	0.5	0.3	0.0
Good	9.4	11.8	12.3	9.3	1.0
Fair	51.4	47.9	40.9	53.9	71.4
Poor	27.6	31.0	30.8	24.5	22.1
Very Poor	11.3	8.5	15.5	11.9	5.4
Day, Alongshore					
Very Good	0.9	2.0	1.0	0.7	0.0
Good	19.8	26.9	23.2	20.3	2.3
Fair	75.2	68.1	68.5	77.0	96.5
Poor	4.1	3.1	7.4	2.0	1.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	30.0	32.0	10.1	33.3	53.8
Poor	48.7	52.9	57.2	44.1	36.9
Very Poor	21.3	15.1	32.7	22.7	9.3

Table 7.23 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.0	1.3	0.0	0.0
Good	7.0	8.4	15.0	5.8	2.0
Fair	53.9	58.6	35.4	45.9	71.3
Poor	29.6	27.0	35.7	34.5	21.5
Very Poor	9.3	5.9	12.6	13.8	5.2
Day, Offshore					
Very Good	0.6	0.0	2.6	0.0	0.0
Good	17.6	19.9	31.8	16.4	5.4
Fair	78.5	76.5	57.5	81.7	93.8
Poor	3.4	3.6	8.0	2.0	0.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	37.7	45.5	16.3	25.6	58.0
Poor	46.8	44.3	59.5	52.7	33.7
Very Poor	15.5	10.2	24.2	21.7	8.3

Table 7.24
 Biloxi, Mississippi
 Percent of Hours in Each Diffusion Class
 by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.6	0.7	1.4	0.2	0.0
Good	13.1	14.9	23.2	10.0	3.1
Fair	48.9	52.9	37.3	48.4	57.9
Poor	17.5	17.5	15.7	16.5	20.4
Very Poor	20.0	14.0	22.5	24.8	18.6
Day, All Directions					
Very Good	1.0	1.1	2.1	0.4	0.0
Good	22.7	24.5	35.7	19.2	6.2
Fair	67.4	67.7	50.9	73.4	83.4
Poor	8.2	6.3	9.7	6.6	10.3
Very Poor	0.7	0.5	1.5	0.4	0.1
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.9	29.8	12.1	21.0	31.4
Poor	30.1	35.3	26.9	27.5	30.8
Very Poor	46.0	35.0	61.0	51.5	37.7

Table 7.24 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.9	0.8	2.0	0.3	0.0
Good	21.7	19.9	35.9	19.1	4.1
Fair	53.1	57.5	40.1	51.6	69.1
Poor	15.6	15.6	13.0	16.7	18.8
Very Poor	8.7	6.3	9.1	12.3	8.0
Day, Onshore					
Very Good	1.3	1.1	2.1	0.4	0.0
Good	31.9	29.5	48.2	29.1	6.8
Fair	64.3	67.5	47.2	68.2	88.2
Poor	2.5	1.9	2.0	2.3	5.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	29.5	37.0	19.3	19.9	39.4
Poor	43.3	43.8	45.0	44.3	40.3
Very Poor	27.2	19.2	35.6	35.8	20.4

Table 7.24 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.7	1.7	0.3	0.9	0.0
Good	10.9	9.0	24.4	9.4	3.0
Fair	58.2	65.0	44.5	58.4	64.3
Poor	19.0	17.0	18.0	16.0	23.8
Very Poor	11.2	7.4	12.9	15.2	8.9
Day, Alongshore					
Very Good	1.1	2.7	0.5	1.5	0.0
Good	18.0	14.1	36.6	15.8	5.3
Fair	74.9	78.3	56.5	79.1	86.3
Poor	5.9	4.9	6.3	3.5	8.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	32.7	43.7	22.6	28.0	35.6
Poor	39.0	36.6	39.3	33.9	43.9
Very Poor	28.2	19.7	38.1	38.1	20.5

Table 7.24 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.4	0.4	1.6	0.1	0.0
Good	9.6	13.4	18.2	7.6	3.5
Fair	59.1	58.1	49.0	59.8	65.1
Poor	19.2	20.6	16.1	18.0	22.0
Very Poor	11.7	7.6	15.1	14.6	9.4
Day, Offshore					
Very Good	0.7	0.6	2.3	0.1	0.0
Good	16.7	21.8	26.8	14.2	6.6
Fair	77.5	72.2	64.5	82.9	86.5
Poor	5.1	5.4	6.4	2.8	6.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	34.3	35.7	15.6	33.3	41.2
Poor	38.3	44.7	37.0	35.5	38.9
Very Poor	27.4	19.6	47.4	31.2	19.8

Table 7.25
New Orleans, Louisiana
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.3	0.4	0.1	0.0
Good	9.9	11.3	18.5	7.3	2.2
Fair	48.3	51.4	30.8	48.2	63.2
Poor	23.8	22.6	27.3	21.8	23.3
Very Poor	17.8	14.5	23.0	22.5	11.3
Day, All Directions					
Very Good	0.5	0.7	0.9	0.4	0.0
Good	24.7	30.1	39.1	19.6	5.9
Fair	72.4	67.2	56.0	78.9	92.3
Poor	2.3	2.0	3.9	1.1	1.8
Very Poor	0.0	0.0	0.1	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	32.3	41.8	8.2	29.8	45.8
Poor	38.1	35.0	48.3	34.3	36.2
Very Poor	29.6	23.2	43.4	35.9	18.0

Table 7.25 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.3	0.4	0.4	0.2	0.0
Good	6.9	7.0	14.2	5.6	1.5
Fair	55.0	60.5	38.9	51.2	65.3
Poor	30.6	26.2	37.4	33.5	27.3
Very Poor	7.2	5.9	9.0	9.5	5.8
Day, Onshore					
Very Good	0.7	1.2	0.8	0.7	0.0
Good	17.9	20.1	29.6	15.4	4.0
Fair	80.5	77.9	68.4	82.3	95.6
Poor	1.0	0.8	1.2	1.6	0.4
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	38.7	51.1	12.4	33.2	46.6
Poor	49.5	39.7	70.1	51.8	44.1
Very Poor	11.8	9.2	17.5	15.0	9.3

Table 7.25 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	9.0	6.6	14.1	9.4	3.0
Fair	44.5	47.0	35.2	45.5	50.0
Poor	27.2	27.8	26.3	25.5	32.5
Very Poor	19.3	18.7	24.3	19.6	14.6
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	22.2	18.0	30.3	24.2	8.0
Fair	75.7	82.0	67.0	75.8	83.3
Poor	2.1	0.0	2.8	0.0	8.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	23.4	28.9	9.3	25.8	31.3
Poor	44.2	41.9	46.2	41.9	46.0
Very Poor	32.4	29.1	44.5	32.3	22.7

Table 7.25 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.3	0.2	0.7	0.2	0.0
Good	15.4	21.3	30.6	10.7	2.7
Fair	53.6	47.9	30.3	59.2	71.8
Poor	20.2	19.9	24.1	17.4	19.8
Very Poor	10.5	10.8	14.3	12.4	5.6
Day, Offshore					
Very Good	0.6	0.4	1.2	0.4	0.0
Good	31.6	44.0	52.1	22.0	6.6
Fair	66.4	53.2	45.4	76.9	91.9
Poor	1.4	2.5	1.3	0.7	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	41.5	42.9	8.7	42.4	57.8
Poor	38.1	36.2	56.6	33.3	32.6
Very Poor	20.4	20.9	34.8	24.3	9.6

Table 7.26
Boothville, Louisiana
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.3	0.1	0.8	0.2	0.0
Good	9.8	13.0	15.4	8.0	2.4
Fair	48.1	50.6	32.0	46.5	63.8
Poor	22.2	23.4	25.6	19.5	20.1
Very Poor	19.7	12.9	26.2	25.8	13.7
Day, All Directions					
Very Good	0.7	0.4	1.7	0.5	0.0
Good	24.6	33.9	34.5	21.4	6.3
Fair	70.8	63.8	57.4	75.1	90.0
Poor	3.6	1.8	6.1	2.7	3.5
Very Poor	0.2	0.2	0.3	0.2	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	33.2	42.4	11.3	29.3	47.6
Poor	34.3	36.8	41.4	29.6	30.3
Very Poor	32.5	20.8	47.3	41.1	22.0

Table 7.26 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.2	0.0	0.5	0.3	0.0
Good	8.6	10.4	12.2	6.9	3.1
Fair	53.0	57.4	36.4	52.1	66.4
Poor	27.9	26.1	35.6	27.1	22.5
Very Poor	10.3	6.1	15.2	13.6	8.0
Day, Onshore					
Very Good	0.5	0.0	1.3	0.7	0.0
Good	22.0	30.0	28.1	17.4	8.2
Fair	75.9	69.2	67.5	81.2	90.6
Poor	1.6	0.8	3.2	0.7	1.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	38.2	51.1	12.6	32.1	51.3
Poor	44.8	39.6	60.4	45.2	35.8
Very Poor	17.0	9.4	27.0	22.8	12.9

Table 7.26 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.1	0.0	0.4	0.0	0.0
Good	8.3	7.2	13.5	11.7	1.3
Fair	41.5	41.6	35.7	44.8	46.2
Poor	31.4	33.6	34.7	26.4	30.4
Very Poor	18.6	17.7	15.8	17.0	22.1
Day, Alongshore					
Very Good	0.3	0.0	0.8	0.0	0.0
Good	22.8	23.1	31.0	27.9	4.3
Fair	75.1	74.6	65.6	72.1	93.9
Poor	1.8	2.3	2.5	0.0	1.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	22.6	25.9	12.7	29.1	24.2
Poor	48.2	48.4	59.3	44.0	43.5
Very Poor	29.2	25.7	28.0	26.9	32.3

Table 7.26 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.5	0.5	1.7	0.3	0.0
Good	14.6	23.2	31.3	11.3	2.5
Fair	59.6	50.6	40.6	61.0	74.5
Poor	17.2	16.0	17.4	18.3	17.4
Very Poor	8.0	9.6	9.0	9.0	5.6
Day, Offshore					
Very Good	1.0	0.9	2.6	0.7	0.0
Good	29.0	45.5	47.0	23.6	5.8
Fair	68.5	53.0	48.9	73.6	92.5
Poor	1.5	0.6	1.4	2.1	1.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	50.5	48.1	24.3	48.8	61.1
Poor	33.2	32.1	48.6	33.8	29.1
Very Poor	16.2	19.8	27.2	17.4	9.8

Table 7.27
Lake Charles, Louisiana
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.3	0.0	0.0
Good	7.9	8.6	14.7	6.0	2.1
Fair	50.5	56.4	34.6	45.9	65.3
Poor	26.1	23.6	26.7	31.7	22.3
Very Poor	15.4	11.2	23.7	16.4	10.3
Day, All Directions					
Very Good	0.3	0.3	0.7	0.0	0.0
Good	19.5	21.8	31.0	16.1	5.5
Fair	77.4	76.1	64.8	80.8	91.7
Poor	2.5	1.5	3.0	2.9	2.6
Very Poor	0.3	0.2	0.4	0.2	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	32.1	43.5	7.5	24.9	49.4
Poor	42.1	38.1	47.9	48.9	34.1
Very Poor	25.8	18.4	44.6	26.2	16.4

Table 7.27 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.1	0.1	0.1	0.0	0.0
Good	8.5	8.4	14.9	8.2	1.5
Fair	56.8	63.6	42.9	48.9	69.4
Poor	25.6	22.1	27.9	32.1	22.1
Very Poor	9.1	5.8	14.1	10.8	7.0
Day, Onshore					
Very Good	0.2	0.3	0.3	0.0	0.0
Good	18.5	19.8	26.7	18.0	3.8
Fair	80.5	79.5	71.5	81.5	95.5
Poor	0.9	0.3	1.6	0.5	0.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	36.6	51.8	6.6	20.1	52.2
Poor	46.6	38.1	61.4	59.4	36.2
Very Poor	16.7	10.0	32.0	20.6	11.6

Table 7.27 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.3	0.0	0.9	0.0	0.0
Good	9.7	11.3	17.0	7.6	3.1
Fair	45.1	39.9	35.2	39.3	65.5
Poor	32.7	32.5	29.9	42.8	25.9
Very Poor	12.3	16.4	17.1	10.3	5.5
Day, Alongshore					
Very Good	0.6	0.0	1.9	0.0	0.0
Good	23.6	27.1	35.2	22.1	7.6
Fair	74.5	71.9	60.2	77.9	91.6
Poor	1.3	1.0	2.7	0.0	0.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	24.3	17.2	12.0	19.5	47.1
Poor	54.8	54.8	55.4	64.8	43.5
Very Poor	20.9	28.0	32.6	15.7	9.4

Table 7.27 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.1	0.2	0.3	0.0	0.0
Good	7.6	8.6	19.6	4.5	2.5
Fair	55.0	56.9	31.4	54.9	69.3
Poor	26.6	23.5	32.3	29.1	22.5
Very Poor	10.7	10.9	16.5	11.5	5.7
Day, Offshore					
Very Good	0.3	0.6	0.7	0.0	0.0
Good	20.0	24.2	42.4	12.3	6.9
Fair	77.7	72.6	54.9	87.2	89.9
Poor	2.0	2.6	2.0	0.5	3.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	41.0	48.3	11.0	36.2	57.4
Poor	41.7	34.8	58.4	45.7	33.5
Very Poor	17.3	16.9	30.5	18.1	9.1

Table 7.28
Galveston, Texas
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.2	0.1	0.7	0.2	0.0
Good	13.5	13.6	26.1	12.2	2.9
Fair	65.7	70.1	53.7	65.6	72.8
Poor	15.8	13.1	15.7	16.3	17.8
Very Poor	4.8	3.2	3.7	5.7	6.5
Day, All Directions					
Very Good	0.4	0.2	1.1	0.3	0.0
Good	23.3	24.0	36.9	20.6	6.3
Fair	74.8	75.1	59.7	78.2	92.2
Poor	1.4	0.8	2.3	0.9	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	52.8	63.0	38.7	47.1	55.8
Poor	35.7	29.3	48.4	38.8	32.1
Very Poor	11.5	7.7	12.9	14.1	12.1

Table 7.28 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Onshore					
Very good	0.2	0.1	0.5	0.2	0.0
Good	16.6	14.6	28.1	14.9	3.5
Fair	63.2	71.3	52.9	59.1	70.1
Poor	16.5	11.7	15.9	19.7	22.0
Very Poor	3.5	2.4	2.5	6.0	4.4
Day, Onshore					
Very Good	0.4	0.1	0.8	0.4	0.0
Good	27.7	25.3	40.3	25.3	7.2
Fair	70.9	73.8	57.7	73.8	91.6
Poor	0.9	0.7	1.2	0.5	1.2
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	51.2	67.2	41.3	37.8	48.9
Poor	40.0	26.9	50.5	47.5	42.4
Very Poor	8.9	5.9	8.2	14.8	8.6

Table 7.28 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.2	0.0	1.0	0.2	0.0
Good	8.0	110.3	15.5	8.2	2.8
Fair	65.5	62.3	57.8	70.6	67.5
Poor	15.4	18.0	14.2	13.5	16.5
Very Poor	10.9	9.4	11.5	7.5	13.3
Day, Alongshore					
Very Good	0.4	0.0	1.4	0.3	0.0
Good	15.3	22.4	21.8	14.6	6.9
Fair	82.0	77.6	71.4	84.4	91.0
Poor	2.3	0.8	5.5	0.7	2.0
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	47.3	47.9	25.5	52.9	50.9
Poor	29.9	33.7	36.3	30.0	27.0
Very Poor	22.8	18.4	38.3	17.0	22.1

Table 7.28 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.3	0.2	2.0	0.0	0.0
Good	8.2	10.7	21.8	9.4	2.2
Fair	72.7	68.2	55.7	76.1	78.6
Poor	14.1	17.2	15.9	11.1	13.5
Very Poor	4.7	3.7	4.7	3.5	5.8
Day, Offshore					
Very Good	0.5	0.3	2.5	0.0	0.0
Good	14.8	19.1	28.6	15.2	4.9
Fair	82.4	79.6	62.8	83.1	93.5
Poor	2.3	1.1	6.1	1.8	1.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	60.5	53.7	31.3	64.6	66.2
Poor	28.8	37.1	47.9	26.3	23.1
Very Poor	10.7	9.2	20.9	9.1	10.7

Table 7.29
Houston, Texas
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, All Directions					
Very Good	0.2	0.2	0.7	0.0	0.0
Good	6.6	7.5	12.3	5.0	1.5
Fair	53.8	60.0	40.2	50.4	65.0
Poor	24.0	21.2	23.6	27.4	23.7
Very Poor	15.4	11.1	23.2	17.2	9.8
Day, All Directions					
Very Good	0.6	0.5	1.5	0.1	0.0
Good	15.5	16.6	24.8	12.5	4.3
Fair	81.4	81.0	69.8	85.9	93.5
Poor	2.4	1.9	3.8	1.5	2.2
Very Poor	0.1	0.0	0.1	0.0	0.1
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	33.5	42.6	11.2	27.1	49.5
Poor	39.8	37.0	43.1	44.4	35.4
Very Poor	26.6	20.3	45.7	28.5	15.1

Table 7.29 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.3	0.2	0.6	0.0	0.0
Good	7.0	8.1	11.4	5.1	0.7
Fair	53.9	62.5	42.1	49.1	63.4
Poor	25.0	20.6	25.5	29.4	26.7
Very Poor	13.8	8.6	20.4	16.4	9.2
Day, Onshore					
Very Good	0.6	0.4	1.2	0.1	0.0
Good	15.9	17.5	23.0	12.0	2.0
Fair	82.1	81.3	73.8	86.7	96.5
Poor	1.4	0.8	1.9	1.3	1.5
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	31.5	46.5	10.7	21.6	45.7
Poor	43.7	37.7	48.6	50.0	40.2
Very Poor	24.8	15.9	40.7	28.4	14.1

Table 7.29 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.3	0.3	0.8	0.0	0.0
Good	8.4	8.5	16.7	6.0	2.4
Fair	50.8	53.8	39.8	51.4	60.5
Poor	25.2	23.4	21.6	27.4	27.2
Very Poor	15.3	14.0	21.1	15.1	9.9
Day, Alongshore					
Very Good	0.6	0.5	1.6	0.0	0.0
Good	19.0	18.3	31.9	14.2	6.5
Fair	77.8	78.0	63.1	84.2	91.2
Poor	2.6	3.1	3.4	1.7	2.3
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	29.3	33.1	14.3	27.1	42.2
Poor	43.2	40.9	41.5	46.5	42.2
Very Poor	27.5	26.0	44.2	26.4	15.6

Table 7.29 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Offshore					
Very Good	0.2	0.2	1.1	0.0	0.0
Good	5.2	6.2	12.9	4.5	2.0
Fair	60.1	60.4	41.9	55.1	71.5
Poor	22.2	23.1	19.6	26.1	19.7
Very Poor	12.3	10.1	24.5	14.3	6.9
Day, Offshore					
Very Good	0.5	0.4	2.2	0.0	0.0
Good	12.9	13.6	24.7	12.5	5.4
Fair	84.1	82.6	68.7	86.1	93.0
Poor	2.5	3.4	4.5	1.4	1.6
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	43.8	41.9	14.1	37.5	59.2
Poor	35.6	39.6	34.8	40.0	30.0
Very Poor	20.6	18.5	51.1	22.4	10.8

Table 7.30
Brownsville, Texas
Percent of Hours in Each Diffusion Class
by Wind Direction, Season and Time of Day

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, All Directions					
Very Good	0.1	0.1	0.2	0.0	0.0
Good	5.8	6.6	10.4	4.8	1.3
Fair	59.7	71.6	47.8	51.9	67.7
Poor	23.1	15.7	26.9	27.6	22.2
Very Poor	11.4	6.0	14.7	15.7	8.9
Day, All Directions					
Very Good	0.2	0.2	0.4	0.0	0.0
Good	13.9	15.7	21.3	12.8	3.3
Fair	84.7	83.8	77.8	85.9	93.9
Poor	1.1	0.3	0.6	1.3	2.6
Very Poor	0.0	0.0	0.0	0.0	0.2
Night, All Directions					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	41.9	62.8	19.0	31.4	52.0
Poor	38.7	26.8	52.1	43.4	33.9
Very Poor	19.4	10.4	28.9	25.2	14.1

Table 7.30 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Onshore					
Very Good	0.0	0.1	0.0	0.0	0.0
Good	5.3	4.8	7.6	5.7	1.5
Fair	57.2	72.1	50.3	48.3	58.4
Poor	28.0	18.6	29.8	33.2	32.4
Very Poor	9.5	4.4	12.3	12.8	7.7
Day, Onshore					
Very Good	0.1	0.3	0.0	0.0	0.0
Good	13.7	12.2	16.1	17.3	5.0
Fair	85.8	87.4	83.7	82.7	93.1
Poor	0.4	0.0	0.2	0.0	1.9
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Onshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	38.9	62.3	20.2	31.2	42.9
Poor	45.6	30.6	56.4	49.6	46.0
Very Poor	15.5	7.2	23.3	19.1	11.1

Table 7.30 (continued)

Diffusion	Annual	Spring	Season		Winter
			Summer	Fall	
All Hours, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	7.6	9.9	17.0	4.7	1.4
Fair	67.8	78.3	48.7	60.9	77.4
Poor	17.2	8.4	23.0	24.1	15.0
Very Poor	7.4	3.3	11.3	10.3	6.1
Day, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	15.5	20.2	29.9	9.7	3.4
Fair	83.8	79.8	69.3	89.0	95.9
Poor	0.7	0.0	0.8	1.3	0.8
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Alongshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	52.7	76.9	21.5	34.2	63.7
Poor	32.8	16.6	52.2	45.6	25.7
Very Poor	14.5	6.5	26.2	20.2	10.6

Table 7.30 (continued)

Diffusion	Annual	Spring	Season		
			Summer	Fall	Winter
All Hours, Offshore					
Very Good	0.4	0.0	4.1	0.0	0.0
Good	3.7	4.6	15.2	3.8	0.4
Fair	57.0	45.2	25.6	53.5	72.6
Poor	24.4	34.5	22.9	25.2	19.7
Very Poor	14.5	15.7	32.3	17.6	7.3
Day, Offshore					
Very Good	1.1	0.0	10.0	0.0	0.0
Good	9.9	14.1	33.6	11.2	1.0
Fair	85.8	79.8	56.4	86.3	95.3
Poor	3.2	6.1	0.0	2.5	3.7
Very Poor	0.0	0.0	0.0	0.0	0.0
Night, Offshore					
Very Good	0.0	0.0	0.0	0.0	0.0
Good	0.0	0.0	0.0	0.0	0.0
Fair	39.7	28.5	2.3	36.7	56.8
Poor	37.2	48.2	40.5	36.8	30.8
Very Poor	23.1	23.4	57.3	26.4	12.4

Table 8.1
Portland, Maine

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.0	0.0				
Good	1.6	0.6	2.3	0.0				
Fair	26.6	17.0	14.7	0.0				
Poor	15.2	6.1	3.4	0.3				
Very Poor	7.5	1.5	1.2	1.8				
Day					Night			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	4.0	1.5	5.5	0.0	0.0	0.0	0.0	0.0
Fair	38.7	20.6	25.0	0.0	18.2	14.4	7.6	0.0
Poor	1.7	0.7	1.3	0.8	24.7	9.9	4.9	0.0
Very Poor	0.0	0.0	0.0	0.1	12.7	2.6	2.1	3.0
Spring					Summer			
Very Good	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	1.8	0.5	2.5	0.0	4.3	1.5	5.6	0.0
Fair	29.2	15.5	19.2	0.0	18.6	17.3	15.8	0.0
Poor	12.8	4.7	3.0	0.6	11.2	6.7	4.8	0.0
Very Poor	5.6	1.6	0.8	2.2	8.9	2.0	1.9	1.4
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.5	0.5	0.8	0.0	0.0	0.0	0.1	0.0
Fair	21.6	19.1	17.1	0.0	37.1	15.9	6.8	0.0
Poor	15.8	7.3	3.6	0.2	21.1	5.8	2.4	0.6
Very Poor	9.3	1.2	1.2	1.8	6.1	1.3	1.0	1.8

Table 8.2
Boston, Massachusetts

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.1	0.0				
Good	1.7	0.3	2.1	0.0				
Fair	44.5	13.9	20.1	0.0				
Poor	7.0	3.7	3.4	0.1				
Very Poor	0.9	0.7	1.1	0.4				
Day				Night				
Very Good	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	4.1	0.8	5.2	0.0	0.0	0.0	0.0	0.0
Fair	45.2	13.8	28.7	0.0	44.0	13.9	13.9	0.0
Poor	0.3	0.2	1.0	0.3	11.7	6.2	5.0	0.0
Very Poor	0.0	0.0	0.0	0.1	1.5	1.2	1.8	0.7
Spring				Summer				
Very Good	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Good	1.7	0.5	2.1	0.0	4.6	0.6	5.1	0.0
Fair	46.8	11.2	22.1	0.0	39.4	13.1	18.1	0.1
Poor	5.9	2.9	3.7	0.1	8.9	3.5	3.1	0.0
Very Poor	0.7	0.4	1.1	0.7	1.2	0.6	1.4	0.2
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.4	0.2	1.3	0.0	0.0	0.0	0.0	0.0
Fair	39.3	15.3	26.2	0.0	52.7	15.9	13.7	0.0
Poor	5.6	4.7	3.8	0.3	7.4	4.0	2.8	0.1
Very Poor	0.7	0.6	1.1	0.4	1.0	1.2	0.6	0.5

Table 8.3
Bedford, Massachusetts

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off-shore	Along-shore	On-shore	Calm	Off-shore	Along-shore	On-shore	Calm
All Hours								
Very Good	0.1	0.0	0.0	0.0				
Good	2.8	0.8	1.0	0.0				
Fair	27.6	8.3	12.6	0.2				
Poor	11.6	3.1	4.0	3.1				
Very Poor	6.2	1.1	0.9	16.5				
Day					Night			
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	6.7	1.9	2.4	0.0	0.0	0.0	0.0	0.0
Fair	44.7	12.2	18.7	0.6	15.0	5.4	8.1	0.0
Poor	1.8	1.2	1.9	7.3	18.8	4.5	5.6	0.0
Very Poor	0.0	0.0	0.0	0.5	10.7	2.0	1.6	28.3
Spring					Summer			
Very Good	0.1	0.0	0.0	0.0	0.2	0.2	0.0	0.0
Good	2.7	1.1	1.5	0.0	7.4	1.7	2.0	0.0
Fair	31.3	8.0	14.8	0.3	29.5	7.1	8.3	0.3
Poor	12.4	2.7	3.7	2.0	11.2	3.2	2.7	2.5
Very Poor	5.1	1.2	1.2	11.9	8.4	1.2	0.7	13.5
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.2	0.3	0.5	0.0	0.0	0.0	0.0	0.0
Fair	21.3	7.5	14.4	0.3	28.3	10.6	13.0	0.0
Poor	10.1	3.0	6.2	4.5	12.6	3.4	3.5	3.4
Very Poor	5.3	1.1	1.3	23.0	5.9	0.9	0.5	17.7

Table 8.4
Falmouth, Massachusetts

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.1	0.0				
Good	1.3	1.5	2.1	0.0				
Fair	15.8	17.7	26.7	0.2				
Poor	4.6	4.6	7.5	1.2				
Very Poor	2.1	1.6	4.0	8.8				
Day					Night			
Very Good	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	3.0	3.6	5.0	0.0	0.0	0.0	0.0	0.0
Fair	22.9	22.9	35.5	0.4	10.6	13.9	20.2	0.0
Poor	1.4	0.7	0.9	2.9	7.0	7.5	12.4	0.0
Very Poor	0.0	0.0	0.0	0.5	3.7	2.7	7.0	14.9
Spring					Summer			
Very Good	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0
Good	1.4	1.9	2.6	0.0	2.9	3.3	4.3	0.0
Fair	18.0	19.2	26.5	0.2	20.1	18.8	15.4	0.3
Poor	4.4	4.3	6.9	1.0	6.6	5.0	4.9	1.6
Very Poor	2.2	1.6	3.4	6.4	2.5	1.6	3.0	9.1
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.7	0.9	1.5	0.0	0.0	0.0	0.1	0.0
Fair	14.5	15.0	27.3	0.1	10.7	17.9	37.9	0.0
Poor	4.9	4.6	8.1	1.4	2.5	4.6	10.2	0.9
Very Poor	3.0	2.1	4.7	11.3	0.8	1.0	5.0	8.3

Table 8.5
Nantucket, Massachusetts

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.1	0.0	0.0				
Good	1.9	0.7	1.2	0.0				
Fair	26.1	19.4	31.8	0.0				
Poor	5.3	4.0	6.3	0.0				
Very Poor	0.9	0.5	1.1	0.6				
Day					Night			
Very Good	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Good	4.4	1.7	2.8	0.0	0.0	0.0	0.0	0.0
Fair	33.1	21.9	35.2	0.0	20.9	17.5	29.4	0.0
Poor	0.2	0.0	0.2	0.1	9.1	7.0	10.8	0.0
Very Poor	0.0	0.0	0.0	0.0	1.6	0.8	1.9	1.0
Spring					Summer			
Very Good	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0
Good	1.6	0.8	1.0	0.0	5.2	1.3	2.7	0.0
Fair	30.2	17.9	30.1	0.0	37.2	14.2	17.4	0.0
Poor	6.0	4.3	5.6	0.0	8.6	4.2	4.8	0.1
Very Poor	0.7	0.5	1.0	0.3	1.6	0.6	0.9	1.0
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.5	0.8	1.0	0.0	0.0	0.0	0.1	0.0
Fair	21.4	22.9	33.7	0.0	15.0	23.0	46.4	0.0
Poor	4.6	5.3	6.8	0.1	2.0	2.4	8.2	0.0
Very Poor	0.8	0.6	0.9	0.5	0.6	0.3	1.7	0.5

Table 8.6
Belmar, New Jersey

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.1	0.1	0.0				
Good	2.2	1.7	1.5	0.0				
Fair	21.2	9.9	12.4	0.4				
Poor	11.9	5.8	5.4	2.1				
Very Poor	11.5	3.9	1.7	8.4				
Day					Night			
Very Good	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0
Good	5.2	4.0	3.6	0.0	0.0	0.0	0.0	0.0
Fair	36.2	17.8	19.5	0.9	10.3	4.2	7.2	0.0
Poor	2.1	1.9	2.9	5.0	19.1	8.6	7.2	0.0
Very Poor	0.0	0.0	0.0	0.5	19.8	6.7	2.9	14.2
Spring					Summer			
Very Good	0.1	0.1	0.1	0.0	0.1	0.2	0.4	0.0
Good	2.9	1.5	2.5	0.0	4.3	3.8	2.8	0.0
Fair	21.0	9.8	16.8	0.1	14.4	11.5	7.8	1.1
Poor	11.9	4.3	6.1	1.4	7.5	8.9	3.6	3.1
Very Poor	9.7	2.5	1.5	8.0	13.3	6.0	1.4	9.7
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.2	1.4	0.8	0.0	0.3	0.0	0.0	0.0
Fair	16.2	10.0	15.5	0.3	33.2	8.2	9.3	0.0
Poor	9.7	5.2	8.8	2.4	18.6	4.7	3.0	1.3
Very Poor	12.2	4.9	3.2	8.0	10.6	2.1	0.7	7.9

Table 8.7
Lakehurst, New Jersey

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.1	0.0	0.0				
Good	2.3	0.7	1.2	0.0				
Fair	25.1	7.9	13.3	0.2				
Poor	10.0	5.1	6.3	1.8				
Very Poor	8.2	3.1	2.4	12.1				
Day					Night			
Very Good	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Good	5.5	1.7	2.8	0.0	0.0	0.0	0.0	0.0
Fair	43.2	13.8	21.4	0.5	12.0	3.6	7.4	0.0
Poor	1.8	1.3	2.8	4.4	15.9	7.9	8.9	0.0
Very Poor	0.0	0.0	0.0	0.4	14.2	5.4	4.1	20.6
Spring					Summer			
Very Good	0.1	0.0	0.0	0.0	0.3	0.2	0.1	0.0
Good	2.7	0.5	1.8	0.0	4.4	1.5	2.6	0.0
Fair	26.4	7.8	19.2	0.1	18.6	9.8	11.4	0.3
Poor	10.7	4.2	6.3	1.3	5.5	7.4	6.8	2.3
Very Poor	7.1	2.5	1.7	7.6	8.3	4.0	3.1	13.3
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	2.0	0.8	0.4	0.0	0.1	0.0	0.0	0.0
Fair	18.7	8.4	14.8	0.4	36.9	5.8	7.7	0.0
Poor	7.6	4.9	7.6	2.4	16.0	3.9	4.6	1.4
Very Poor	8.1	3.8	3.1	17.0	9.5	2.1	1.6	10.5

Table 8.8
Atlantic City, New Jersey

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.0	0.0				
Good	2.1	0.9	2.5	0.0				
Fair	27.7	14.8	18.8	0.1				
Poor	11.3	6.1	5.0	0.9				
Very Poor	2.4	1.0	0.9	5.4				
Day				Night				
Very Good	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	5.0	2.1	5.9	0.0	0.0	0.0	0.0	0.0
Fair	37.6	17.8	26.9	0.2	20.6	12.6	13.0	0.0
Poor	0.7	0.6	0.7	2.2	19.0	10.1	8.1	0.0
Very Poor	0.0	0.0	0.0	0.0	4.1	1.8	1.5	9.2
Spring				Summer				
Very Good	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0
Good	2.2	0.3	2.2	0.0	4.9	2.8	6.2	0.0
Fair	32.7	15.8	17.7	0.3	16.0	14.0	20.5	0.0
Poor	11.6	4.8	3.7	1.0	9.2	9.3	6.7	1.2
Very Poor	1.7	0.7	0.7	4.5	2.2	1.4	1.2	4.1
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.0	0.5	1.3	0.0	0.1	0.0	0.1	0.0
Fair	21.0	15.0	24.2	0.1	41.3	14.3	12.8	0.0
Poor	10.0	5.8	6.9	1.1	14.5	4.6	2.7	0.3
Very Poor	3.4	1.2	1.0	7.2	2.2	0.8	0.6	5.7

Table 8.9
Wilmington, Delaware

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.0	0.0				
Good	2.8	0.9	1.7	0.0				
Fair	27.0	8.7	19.9	0.2				
Poor	14.4	3.9	7.4	1.1				
Very Poor	4.8	1.4	1.7	4.1				
Day					Night			
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	6.7	2.3	4.0	0.0	0.0	0.0	0.0	0.0
Fair	40.6	13.3	26.5	0.4	17.2	5.4	15.2	0.0
Poor	1.3	0.5	1.1	2.7	23.8	6.3	11.9	0.0
Very Poor	0.0	0.0	0.0	0.4	8.2	2.4	2.9	6.7
Spring					Summer			
Very Good	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Good	2.3	0.7	1.8	0.0	7.5	2.4	3.5	0.0
Fair	33.8	10.0	20.3	0.1	17.2	8.7	18.1	0.4
Poor	14.2	2.7	4.9	0.6	14.0	4.3	7.7	1.6
Very Poor	3.3	0.8	1.7	2.7	5.9	2.2	1.6	4.6
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.3	0.7	1.2	0.0	0.0	0.0	0.1	0.0
Fair	20.4	8.1	25.3	0.1	36.7	8.1	15.8	0.0
Poor	12.0	4.3	10.2	1.6	17.4	4.2	6.8	0.6
Very Poor	6.0	1.6	2.1	5.2	3.8	1.0	1.5	3.7

Table 8.10
Wallops Island, Virginia

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.2	0.0				
Good	2.5	0.8	6.9	0.0				
Fair	24.6	18.0	23.9	0.1				
Poor	5.9	4.9	5.6	0.8				
Very Poor	2.0	1.4	1.2	1.5				
Day				Night				
Very Good	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good	4.2	1.3	11.3	0.0	0.0	0.0	0.0	0.0
Fair	29.2	18.2	31.0	0.1	17.6	17.8	12.9	0.0
Poor	0.8	0.7	1.7	1.3	13.8	11.4	11.7	0.0
Very Poor	0.0	0.0	0.0	0.2	5.1	3.5	2.9	3.7
Spring				Summer				
Very Good	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.0
Good	3.7	0.4	5.8	0.0	4.6	2.5	16.8	0.0
Fair	30.2	16.4	22.5	0.0	13.0	15.1	29.8	0.1
Poor	5.3	4.8	6.2	0.7	1.2	3.2	6.4	1.6
Very Poor	1.6	1.1	0.6	1.1	1.0	0.7	2.3	0.9
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.5	0.2	5.6	0.0	0.4	0.0	0.2	0.0
Fair	19.0	19.4	30.3	0.1	35.1	21.0	14.2	0.0
Poor	5.8	4.6	5.8	0.3	10.9	6.6	4.0	0.7
Very Poor	2.7	1.8	1.4	1.6	2.6	1.7	0.4	2.5

Table 8.11
Norfolk, Virginia

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.1	0.0				
Good	1.8	2.8	2.4	0.0				
Fair	19.1	24.0	17.6	0.0				
Poor	5.4	9.3	9.3	0.3				
Very Poor	1.2	2.2	3.3	1.2				
Day					Night			
Very Good	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	4.2	6.6	5.6	0.0	0.0	0.0	0.0	0.0
Fair	25.2	30.4	25.3	0.0	14.6	19.4	12.0	0.0
Poor	0.2	0.6	0.9	0.6	9.2	15.7	15.5	0.0
Very Poor	0.0	0.0	0.0	0.0	2.2	3.9	5.7	2.0
Spring					Summer			
Very Good	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0
Good	3.0	2.8	2.4	0.0	2.9	5.9	5.3	0.0
Fair	22.3	23.6	18.2	0.0	12.0	19.4	16.8	0.0
Poor	6.1	7.7	9.1	0.1	4.0	11.8	10.5	0.7
Very Poor	0.6	1.1	2.2	0.7	1.5	2.8	4.2	1.8
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.0	2.1	1.6	0.0	0.2	0.2	0.1	0.0
Fair	14.1	20.8	24.0	0.0	28.1	32.5	11.2	0.0
Poor	3.8	9.0	12.0	0.1	7.8	8.9	5.6	0.1
Very Poor	2.0	3.1	4.7	1.8	0.9	1.9	2.0	0.4

Table 8.12
Cape Hatteras, North Carolina

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.0	0.0				
Good	0.8	3.0	2.5	0.0				
Fair	22.6	31.2	16.1	0.0				
Poor	7.2	6.8	5.8	0.3				
Very Poor	0.8	0.5	1.0	1.4				
Day					Night			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.9	7.2	5.8	0.0	0.0	0.0	0.0	0.0
Fair	24.5	36.8	22.3	0.0	21.2	27.1	11.6	0.0
Poor	0.2	0.3	0.4	0.7	12.4	11.6	9.8	0.0
Very Poor	0.0	0.0	0.0	0.0	1.3	0.8	1.8	2.4
Spring					Summer			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.2	4.1	2.9	0.0	1.2	6.5	5.2	0.0
Fair	22.8	31.9	16.6	0.0	9.9	35.8	17.1	0.0
Poor	5.0	6.2	5.6	0.1	4.4	7.9	7.1	0.7
Very Poor	0.5	0.7	1.3	1.2	0.7	0.5	1.4	1.6
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.5	1.2	1.4	0.0	0.2	0.3	0.3	0.0
Fair	19.7	28.7	20.5	0.0	38.3	28.3	10.3	0.0
Poor	8.7	8.4	7.7	0.3	11.0	4.6	2.8	0.1
Very Poor	0.8	0.2	1.0	1.0	1.1	0.4	0.6	1.9

Table 8.13
Wilmington, North Carolina

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.1	0.0				
Good	2.9	1.3	2.7	0.0				
Fair	19.1	15.4	14.8	0.1				
Poor	8.0	8.8	5.5	1.3				
Very Poor	2.4	2.4	3.6	11.3				
Day				Night				
Very Good	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Good	6.7	2.9	6.2	0.0	0.0	0.0	0.0	0.0
Fair	30.2	21.6	26.5	0.3	10.6	10.6	5.8	0.0
Poor	0.5	0.6	0.9	3.1	13.8	15.1	9.0	0.0
Very Poor	0.0	0.0	0.0	0.1	4.3	4.3	6.4	20.0
Spring				Summer				
Very Good	0.0	0.1	0.2	0.0	0.4	0.0	0.2	0.0
Good	5.0	1.8	2.8	0.0	4.3	2.2	5.0	0.0
Fair	20.7	15.4	15.2	0.1	11.5	14.5	15.8	0.1
Poor	9.6	7.3	5.7	0.8	4.7	10.1	8.0	2.6
Very Poor	2.0	2.0	3.9	7.4	2.4	2.9	4.1	10.9
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.6	0.8	2.6	0.0	0.6	0.3	0.3	0.0
Fair	18.4	13.7	16.0	0.3	26.0	17.9	12.2	0.0
Poor	7.9	9.8	4.2	1.2	9.9	7.9	4.0	0.7
Very Poor	2.7	3.2	4.2	13.5	2.7	1.7	2.2	13.6

Table 8.14
Charleston, South Carolina

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.2	0.0	0.1	0.0				
Good	3.2	1.9	2.8	0.0				
Fair	20.3	11.8	16.5	0.0				
Poor	8.9	6.4	10.8	0.4				
Very Poor	5.2	2.3	5.3	3.9				
Day					Night			
Very Good	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	7.5	4.4	6.5	0.0	0.0	0.0	0.0	0.0
Fair	31.4	19.2	26.9	0.0	11.9	6.3	8.7	0.0
Poor	1.0	0.6	0.8	0.9	14.8	10.7	18.4	0.0
Very Poor	0.0	0.0	0.0	0.0	9.1	4.0	9.3	6.8
Spring					Summer			
Very Good	0.3	0.1	0.1	0.0	0.3	0.0	0.1	0.0
Good	5.0	1.8	4.4	0.0	5.3	3.5	4.4	0.0
Fair	17.6	12.0	19.5	0.0	14.7	10.5	18.8	0.0
Poor	6.7	5.6	12.4	0.6	6.2	6.7	14.1	0.5
Very Poor	3.4	1.6	6.1	2.9	3.7	2.3	6.0	2.8
Fall					Winter			
Very Good	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.9	1.7	1.9	0.0	0.6	0.5	0.4	0.0
Fair	22.4	10.4	12.6	0.0	26.5	14.5	15.0	0.0
Poor	13.2	7.1	7.6	0.1	9.7	6.3	9.2	0.3
Very Poor	9.5	2.8	4.5	4.2	4.3	2.4	4.7	5.7

Table 8.15
Brunswick, Georgia

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.2	0.1	0.2	0.0				
Good	2.8	1.4	3.4	0.0				
Fair	14.7	6.9	12.9	0.5				
Poor	7.3	4.4	5.2	2.4				
Very Poor	7.8	4.1	5.2	20.5				
Day					Night			
Very Good	0.4	0.2	0.5	0.0	0.0	0.0	0.0	0.0
Good	6.6	3.2	8.0	0.0	0.0	0.0	0.0	0.0
Fair	29.6	11.7	26.7	1.1	3.8	3.4	2.9	0.0
Poor	2.8	1.1	1.8	5.7	10.6	6.9	7.8	0.0
Very Poor	0.0	0.0	0.0	0.6	13.5	7.1	9.0	35.1
Spring					Summer			
Very Good	0.2	0.2	0.4	0.0	0.5	0.2	0.4	0.0
Good	4.3	1.6	5.9	0.0	4.3	1.7	5.0	0.0
Fair	15.8	5.8	11.5	0.5	13.9	5.2	11.7	0.8
Poor	8.1	3.8	5.8	2.4	5.4	4.5	5.8	5.4
Very Poor	8.6	2.2	6.9	15.9	6.0	5.8	4.5	18.8
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.7	1.6	2.1	0.0	0.8	0.5	0.5	0.0
Fair	10.2	7.9	15.9	0.3	19.0	8.8	12.6	0.2
Poor	5.4	4.9	5.1	0.5	10.4	4.4	4.2	1.3
Very Poor	8.4	4.1	5.9	26.0	8.1	4.3	3.3	21.4

Table 8.16
Cape Kennedy, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.1	0.1	0.0				
Good	2.0	2.8	7.1	0.0				
Fair	10.6	12.6	15.3	0.1				
Poor	6.6	7.1	7.3	1.3				
Very Poor	7.4	6.7	8.0	5.0				
Day								
Very Good	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0
Good	4.8	6.6	16.7	0.0	0.0	0.0	0.0	0.0
Fair	17.5	20.2	27.8	0.2	5.4	7.0	6.0	0.0
Poor	0.6	0.6	1.1	3.1	11.1	11.8	11.9	0.0
Very Poor	0.0	0.0	0.0	0.3	12.8	11.6	14.0	8.4
Night								
Very Good	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0
Good	2.8	4.0	8.8	0.0	2.7	4.1	11.3	0.0
Fair	11.3	13.9	13.7	0.0	11.0	8.1	11.8	0.2
Poor	6.5	7.5	8.0	1.2	6.9	6.8	6.5	3.1
Very Poor	5.4	6.6	7.1	2.9	8.3	5.9	7.3	5.9
Spring								
Very Good	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good	1.2	2.0	6.8	0.0	1.4	1.1	1.3	0.0
Fair	6.0	8.3	21.6	0.1	14.0	20.0	14.0	0.0
Poor	5.6	4.7	10.2	0.4	7.5	9.2	4.5	0.4
Very Poor	7.2	7.3	11.8	6.5	8.7	6.9	6.1	4.7
Fall								
Very Good	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good	1.2	2.0	6.8	0.0	1.4	1.1	1.3	0.0
Fair	6.0	8.3	21.6	0.1	14.0	20.0	14.0	0.0
Poor	5.6	4.7	10.2	0.4	7.5	9.2	4.5	0.4
Very Poor	7.2	7.3	11.8	6.5	8.7	6.9	6.1	4.7
Summer								
Very Good	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good	1.2	2.0	6.8	0.0	1.4	1.1	1.3	0.0
Fair	6.0	8.3	21.6	0.1	14.0	20.0	14.0	0.0
Poor	5.6	4.7	10.2	0.4	7.5	9.2	4.5	0.4
Very Poor	7.2	7.3	11.8	6.5	8.7	6.9	6.1	4.7
Winter								

Table 8.17
Orlando, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.2	0.1	0.0				
Good	3.6	1.9	3.5	0.0				
Fair	16.6	10.6	18.1	0.2				
Poor	7.3	7.5	12.4	1.1				
Very Poor	2.3	2.4	3.9	8.2				
Day				Night				
Very Good	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0
Good	8.6	4.5	8.2	0.0	0.0	0.0	0.0	0.0
Fair	26.8	15.4	30.2	0.4	9.2	7.1	9.2	0.0
Poor	0.6	0.6	0.9	2.6	12.1	12.5	20.9	0.0
Very Poor	0.0	0.0	0.0	0.1	4.1	4.1	6.8	14.1
Spring				Summer				
Very Good	0.3	0.1	0.1	0.0	0.1	0.4	0.2	0.0
Good	5.9	2.0	4.7	0.0	5.4	3.1	3.6	0.0
Fair	19.6	10.2	17.1	0.1	16.8	8.6	15.4	0.3
Poor	8.1	7.5	9.5	1.3	9.2	7.6	11.3	2.4
Very Poor	2.2	2.2	2.1	6.9	2.9	2.5	3.4	7.0
Fall				Winter				
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	1.6	1.9	3.7	0.0	1.5	0.7	1.9	0.0
Fair	9.5	9.2	21.2	0.3	20.6	14.5	18.5	0.1
Poor	4.8	8.0	19.2	0.1	6.9	7.0	9.9	0.4
Very Poor	2.5	1.9	6.5	9.3	1.8	2.9	3.7	9.6

Table 8.18
Miami, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating, by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.0	0.0				
Good	1.7	0.9	6.8	0.0				
Fair	12.6	4.9	31.4	0.0				
Poor	11.0	3.4	16.0	0.0				
Very Poor	5.7	1.5	3.9	0.1				
Day								
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	3.9	2.2	16.1	0.0	0.0	0.0	0.0	0.0
Fair	19.3	7.9	48.0	0.0	7.7	2.7	19.3	0.0
Poor	1.3	0.5	0.6	0.0	18.2	5.4	27.4	0.0
Very Poor	0.0	0.0	0.0	0.0	9.8	2.5	6.8	0.2
Night								
Spring								
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Good	1.9	1.6	7.9	0.0	1.8	0.7	13.1	0.0
Fair	11.6	3.7	37.1	0.0	9.3	4.4	26.9	0.0
Poor	8.6	3.3	17.5	0.0	8.2	2.9	16.9	0.1
Very Poor	3.4	1.1	2.2	0.1	7.2	2.3	6.0	0.1
Summer								
Fall								
Very Good	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.9	1.1	4.6	0.0	1.0	0.4	1.5	0.0
Fair	10.3	6.3	30.1	0.0	19.4	5.3	31.7	0.0
Poor	14.1	4.1	16.6	0.0	13.3	3.2	13.1	0.0
Very Poor	5.5	1.4	4.0	0.1	6.6	1.0	3.4	0.1
Winter								

Table 8.19
Fort Myers, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.2	0.1	0.1	0.0				
Good	4.9	1.7	4.2	0.0				
Fair	19.6	7.8	11.8	0.1				
Poor	18.3	5.1	5.9	0.8				
Very Poor	7.0	1.7	0.9	9.6				
Day				Night				
Very Good	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Good	11.7	4.2	10.2	0.0	0.0	0.0	0.0	0.0
Fair	34.2	12.3	22.7	0.3	9.3	4.5	4.0	0.0
Poor	1.0	0.4	0.2	2.0	30.8	8.5	9.9	0.0
Very Poor	0.0	0.0	0.0	0.0	12.0	3.0	1.6	16.5
Spring				Summer				
Very Good	0.0	0.1	0.1	0.0	0.5	0.1	0.1	0.0
Good	5.5	2.2	7.2	0.0	6.4	2.7	6.5	0.0
Fair	15.4	8.1	16.3	0.2	15.8	7.3	11.0	0.2
Poor	13.4	6.7	8.9	0.9	15.0	4.5	6.0	1.9
Very Poor	4.6	1.6	0.7	8.2	8.1	2.7	1.1	9.9
Fall				Winter				
Very Good	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	5.9	1.0	2.0	0.0	1.7	1.0	1.2	0.0
Fair	23.5	4.9	7.1	0.1	24.0	10.8	12.7	0.1
Poor	25.4	3.2	2.5	0.2	19.7	6.1	6.0	0.3
Very Poor	10.2	1.4	1.0	11.3	5.1	1.2	0.9	9.1

Table 8.20
Tampa, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.0	0.0	0.0				
Good	2.7	1.5	4.5	0.0				
Fair	19.9	10.2	15.8	0.1				
Poor	16.9	6.0	6.1	0.5				
Very Poor	7.1	1.8	2.0	4.2				
Day					Night			
Very Good	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	6.5	3.6	10.9	0.0	0.0	0.0	0.0	0.0
Fair	30.9	16.0	29.0	0.2	12.0	6.1	6.3	0.0
Poor	0.9	0.4	0.4	1.1	28.3	11.3	10.1	0.0
Very Poor	0.0	0.0	0.0	0.0	12.1	3.1	3.4	7.1
Spring					Summer			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Good	3.1	2.2	6.9	0.0	2.9	2.3	7.5	0.0
Fair	16.8	10.2	20.1	0.1	15.8	8.8	17.9	0.1
Poor	12.2	6.0	8.6	0.2	14.5	6.5	7.7	1.6
Very Poor	4.3	2.1	2.1	5.0	6.9	1.4	1.4	4.7
Fall					Winter			
Very Good	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	3.4	0.8	1.7	0.0	1.5	0.6	1.9	0.0
Fair	25.8	7.9	9.1	0.1	21.1	14.0	15.9	0.0
Poor	26.6	6.7	2.7	0.0	14.3	7.9	5.2	0.1
Very Poor	8.3	1.6	1.4	3.5	8.8	2.2	3.1	3.4

Table 8.21
Tallahassee, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.3	0.1	0.2	0.0				
Good	4.9	1.7	3.3	0.0				
Fair	16.0	6.5	16.1	0.3				
Poor	8.9	4.2	6.5	1.8				
Very Poor	6.5	3.2	4.8	14.8				
Day					Night			
Very Good	0.7	0.1	0.4	0.0	0.0	0.0	0.0	0.0
Good	11.8	4.1	8.1	0.0	0.0	0.0	0.0	0.0
Fair	27.7	11.1	27.2	0.7	7.9	3.2	8.3	0.0
Poor	1.5	0.7	1.2	4.4	14.2	6.6	10.2	0.0
Very Poor	0.0	0.0	0.0	0.2	11.0	5.5	8.2	25.0
Spring					Summer			
Very Good	0.1	0.1	0.3	0.0	1.0	0.1	0.3	0.0
Good	5.7	1.2	5.2	0.0	7.1	3.0	4.9	0.0
Fair	15.3	5.2	20.2	0.3	8.7	5.4	13.3	0.6
Poor	7.0	4.0	7.9	1.9	5.0	5.3	9.3	3.8
Very Poor	5.4	2.2	4.2	13.9	5.9	4.6	8.1	13.5
Fall					Winter			
Very Good	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	4.9	2.0	2.1	0.0	1.7	0.5	1.2	0.0
Fair	17.9	8.7	9.3	0.2	22.4	6.6	21.5	0.1
Poor	12.0	5.1	3.2	0.4	11.9	2.3	5.5	1.2
Very Poor	10.1	4.5	3.9	15.7	4.5	1.7	2.9	16.1

Table 8.22
Pensacola, Florida

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.1	0.1	0.0				
Good	2.5	1.7	5.2	0.0				
Fair	14.2	10.7	20.5	0.3				
Poor	10.8	8.4	8.7	0.8				
Very Poor	4.1	2.3	2.1	8.0				
Day								
Very Good	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0
Good	6.2	4.2	12.9	0.0	0.0	0.0	0.0	0.0
Fair	21.4	15.7	33.0	0.6	9.3	7.4	12.1	0.0
Poor	1.5	1.3	0.6	1.9	17.1	13.2	13.4	0.0
Very Poor	0.0	0.0	0.0	0.3	6.9	3.9	3.5	13.2
Spring								
Very Good	0.2	0.1	0.1	0.0	0.0	0.1	0.4	0.0
Good	3.3	1.6	7.5	0.0	3.0	2.4	8.4	0.0
Fair	12.0	7.5	28.1	0.1	5.9	11.3	15.9	0.7
Poor	7.2	6.8	10.3	0.6	8.4	10.2	10.0	1.5
Very Poor	3.8	1.8	1.4	7.7	4.6	3.4	2.7	11.1
Summer								
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	2.4	2.1	3.8	0.0	1.2	0.5	1.0	0.0
Fair	16.1	9.5	14.6	0.1	22.9	14.7	23.4	0.0
Poor	17.5	9.5	7.4	0.4	10.1	7.2	5.1	0.6
Very Poor	5.6	2.7	2.4	5.8	2.5	1.4	1.9	7.4
Fall								
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	2.4	2.1	3.8	0.0	1.2	0.5	1.0	0.0
Fair	16.1	9.5	14.6	0.1	22.9	14.7	23.4	0.0
Poor	17.5	9.5	7.4	0.4	10.1	7.2	5.1	0.6
Very Poor	5.6	2.7	2.4	5.8	2.5	1.4	1.9	7.4
Winter								

Table 8.23
Mobile, Alabama

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.1	0.1	0.0				
Good	2.6	1.8	2.1	0.0				
Fair	20.1	10.0	21.5	0.1				
Poor	11.1	5.4	11.7	0.4				
Very Poor	3.5	2.2	3.4	3.7				
Day					Night			
Very Good	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Good	6.5	4.6	5.3	0.0	0.0	0.0	0.0	0.0
Fair	29.1	17.4	31.6	0.3	14.1	5.1	14.7	0.0
Poor	1.2	0.9	1.5	0.9	17.7	8.4	18.6	0.0
Very Poor	0.0	0.0	0.0	0.0	5.8	3.7	5.7	6.1
Spring					Summer			
Very Good	0.0	0.1	0.1	0.0	0.3	0.1	0.1	0.0
Good	2.8	1.9	3.9	0.0	4.2	3.2	3.1	0.0
Fair	19.2	7.5	29.6	0.1	10.2	10.6	17.3	0.0
Poor	9.0	4.9	12.8	0.2	10.5	8.1	16.8	0.5
Very Poor	1.9	1.4	3.1	1.4	3.5	4.1	4.8	2.6
Fall					Winter			
Very Good	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Good	2.6	2.1	0.8	0.0	0.8	0.1	0.6	0.0
Fair	20.6	11.9	11.6	0.3	30.8	10.1	27.4	0.1
Poor	15.5	5.6	8.0	0.5	9.4	3.1	9.2	0.3
Very Poor	6.3	2.7	3.6	7.9	2.3	0.8	2.2	2.8

Table 8.24
 Biloxi, Mississippi

Percent of Hours in Each Combination of Wind Direction
 and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.1	0.3	0.0				
Good	3.4	1.1	8.5	0.0				
Fair	20.8	6.0	20.9	1.2				
Poor	6.8	1.9	6.2	2.6				
Very Poor	4.1	1.1	3.4	11.4				
Day								
Very Good	0.3	0.1	0.6	0.0	0.0	0.0	0.0	0.0
Good	5.9	1.9	14.8	0.0	0.0	0.0	0.0	0.0
Fair	27.3	8.1	29.9	2.1	12.1	3.2	8.7	0.0
Poor	1.8	0.6	1.2	4.6	13.6	3.7	12.8	0.0
Very Poor	0.0	0.0	0.0	0.7	9.6	2.6	8.0	25.7
Night								
Very Good	0.1	0.2	0.4	0.0	0.4	0.1	0.9	0.0
Good	4.2	0.8	9.9	0.0	4.6	2.3	16.4	0.0
Fair	17.7	5.9	28.5	0.7	12.1	4.1	18.2	2.8
Poor	6.3	1.5	7.8	1.9	3.9	1.7	5.9	4.2
Very Poor	2.3	0.6	3.2	7.9	3.8	1.2	4.2	13.3
Spring								
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	3.3	0.9	5.8	0.0	1.5	0.4	1.3	0.0
Fair	26.1	5.8	15.6	0.9	28.1	8.3	21.3	0.3
Poor	7.8	1.6	5.0	2.2	9.4	3.0	5.8	2.2
Very Poor	6.2	1.5	3.8	13.3	4.0	1.1	2.5	11.0
Summer								
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	3.3	0.9	5.8	0.0	1.5	0.4	1.3	0.0
Fair	26.1	5.8	15.6	0.9	28.1	8.3	21.3	0.3
Poor	7.8	1.6	5.0	2.2	9.4	3.0	5.8	2.2
Very Poor	6.2	1.5	3.8	13.3	4.0	1.1	2.5	11.0
Fall								
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	3.3	0.9	5.8	0.0	1.5	0.4	1.3	0.0
Fair	26.1	5.8	15.6	0.9	28.1	8.3	21.3	0.3
Poor	7.8	1.6	5.0	2.2	9.4	3.0	5.8	2.2
Very Poor	6.2	1.5	3.8	13.3	4.0	1.1	2.5	11.0
Winter								

Table 8.25
New Orleans, Louisiana

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.1	0.0				
Good	5.9	1.2	2.7	0.0				
Fair	20.6	6.2	21.4	0.1				
Poor	7.8	3.8	11.9	0.4				
Very Poor	4.0	2.7	2.8	8.3				
Day					Night			
Very Good	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Good	14.8	3.1	6.8	0.0	0.0	0.0	0.0	0.0
Fair	31.2	10.7	30.4	0.2	13.6	3.2	15.4	0.0
Poor	0.7	0.3	0.4	0.9	12.5	6.1	19.5	0.0
Very Poor	0.0	0.0	0.0	0.0	6.7	4.5	4.6	13.8
Spring					Summer			
Very Good	0.1	0.0	0.2	0.0	0.3	0.0	0.1	0.0
Good	7.1	0.8	3.4	0.0	11.1	2.3	5.0	0.0
Fair	15.5	5.8	30.0	0.0	11.0	5.7	13.9	0.3
Poor	6.5	3.3	12.6	0.2	8.8	4.0	13.4	1.2
Very Poor	3.6	2.2	2.7	5.9	5.2	3.7	3.2	10.9
Fall					Winter			
Very Good	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	4.1	1.4	1.8	0.0	1.2	0.4	0.6	0.0
Fair	23.6	7.0	17.7	0.0	32.7	6.4	24.1	0.0
Poor	6.7	3.9	11.1	0.1	9.0	4.0	10.2	0.1
Very Poor	4.7	3.0	3.2	11.6	2.6	1.9	2.1	4.8

Table 8.26
Boothville, Louisiana

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.2	0.0	0.1	0.0				
Good	5.4	1.3	3.1	0.0				
Fair	21.9	6.4	19.5	0.4				
Poor	6.3	4.8	10.2	0.8				
Very Poor	2.9	2.9	3.8	10.1				
Day					Night			
Very Good	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Good	13.5	3.2	7.9	0.0	0.0	0.0	0.0	0.0
Fair	31.9	10.5	27.5	1.0	15.3	3.7	14.2	0.0
Poor	0.7	0.3	0.6	2.1	10.0	7.8	16.6	0.0
Very Poor	0.0	0.0	0.0	0.2	4.9	4.7	6.3	16.6
Spring					Summer			
Very Good	0.1	0.0	0.0	0.0	0.5	0.1	0.2	0.0
Good	6.8	1.4	4.8	0.0	8.8	1.9	4.8	0.0
Fair	14.8	7.5	28.1	0.2	11.4	5.4	14.3	0.8
Poor	4.6	6.3	12.2	0.3	4.9	4.9	14.1	1.7
Very Poor	2.9	3.4	2.9	3.7	2.5	2.3	6.0	15.3
Fall					Winter			
Very Good	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Good	4.5	1.7	1.9	0.0	1.3	0.2	1.0	0.0
Fair	24.5	7.2	14.1	0.6	37.2	5.3	21.4	0.0
Poor	7.1	4.6	7.3	0.5	8.7	3.4	7.2	0.8
Very Poor	3.6	3.2	3.6	15.3	2.8	2.5	2.5	5.9

Table 8.27
Lake Charles, Louisiana

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.0	0.1	0.0	0.0				
Good	2.3	1.9	3.7	0.0				
Fair	16.9	8.7	24.6	0.3				
Poor	8.2	6.3	11.0	0.5				
Very Poor	3.3	2.4	3.9	5.9				
Day					Night			
Very Good	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	5.8	4.7	9.0	0.0	0.0	0.0	0.0	0.0
Fair	22.5	14.7	39.5	0.7	13.1	4.6	14.4	0.0
Poor	0.6	0.3	0.4	1.3	13.4	10.4	18.3	0.0
Very Poor	0.0	0.0	0.0	0.3	5.6	4.0	6.6	9.7
Spring					Summer			
Very Good	0.1	0.0	0.1	0.0	0.1	0.2	0.1	0.0
Good	2.4	1.8	4.4	0.0	4.3	3.5	6.9	0.0
Fair	16.2	6.3	33.7	0.2	6.9	7.3	19.8	0.6
Poor	6.7	5.1	11.7	0.2	7.1	6.3	12.8	0.5
Very Poor	3.1	2.6	3.0	2.5	3.6	3.7	6.5	9.9
Fall					Winter			
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.8	1.6	2.7	0.0	0.8	0.6	0.6	0.0
Fair	21.7	8.2	15.8	0.2	23.1	13.2	28.9	0.1
Poor	11.5	8.7	10.4	1.0	7.6	5.2	9.2	0.3
Very Poor	4.5	2.1	3.3	6.5	1.9	1.1	2.8	4.5

Table 8.28
Galveston, Texas

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.2	0.0				
Good	1.9	1.1	10.5	0.0				
Fair	16.9	8.7	40.1	0.0				
Poor	3.3	2.0	10.4	0.0				
Very Poor	1.1	1.4	2.2	0.0				
Day					Night			
Very Good	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0
Good	3.3	1.8	18.2	0.0	0.0	0.0	0.0	0.0
Fair	18.5	9.8	46.5	0.0	14.8	7.1	30.9	0.0
Poor	0.5	0.3	0.6	0.0	7.0	4.5	24.1	0.0
Very Poor	0.0	0.0	0.0	0.0	2.6	3.5	5.3	0.1
Spring					Summer			
Very Good	0.0	0.0	0.1	0.0	0.2	0.1	0.4	0.0
Good	2.0	0.7	10.8	0.0	2.5	1.6	22.0	0.0
Fair	12.6	4.4	53.0	0.0	6.5	5.8	41.4	0.0
Poor	3.2	1.3	8.7	0.0	1.9	1.4	12.5	0.0
Very Poor	0.7	0.7	1.8	0.0	0.6	1.2	2.0	0.0
Fall					Winter			
Very Good	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Good	2.4	1.5	8.3	0.0	0.8	0.5	1.5	0.0
Fair	19.7	13.0	32.9	0.0	29.0	12.2	31.5	0.0
Poor	2.8	2.5	11.0	0.0	5.0	3.0	9.8	0.0
Very Poor	0.9	1.4	3.4	0.1	2.2	2.4	2.0	0.0

Table 8.29
Houston, Texas

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.1	0.0				
Good	1.4	1.4	3.8	0.0				
Fair	16.3	8.5	29.1	0.0				
Poor	6.0	4.2	13.5	0.2				
Very Poor	3.3	2.6	7.4	2.0				
Day				Night				
Very Good	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0
Good	3.3	3.3	3.9	0.0	0.0	0.0	0.0	0.0
Fair	21.7	13.5	46.1	0.1	12.3	4.7	16.5	0.0
Poor	0.6	0.4	0.8	0.6	10.0	7.0	22.9	0.0
Very Poor	0.0	0.0	0.0	0.1	5.8	4.4	12.9	3.5
Spring				Summer				
Very Good	0.0	0.0	0.1	0.0	0.2	0.2	0.4	0.0
Good	1.4	0.8	5.3	0.0	2.0	3.2	7.0	0.0
Fair	13.5	5.1	41.4	0.0	6.7	7.5	25.9	0.1
Poor	5.1	2.2	13.7	0.1	3.2	4.2	15.7	0.6
Very Poor	2.2	1.4	5.7	1.9	3.9	4.0	12.6	2.6
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.4	1.1	2.4	0.0	0.8	0.5	0.3	0.0
Fair	17.3	9.8	23.3	0.0	27.9	11.5	25.6	0.0
Poor	8.2	5.2	14.0	0.0	7.7	5.2	10.6	0.2
Very Poor	4.5	2.9	7.8	2.1	2.7	1.9	3.7	1.5

Table 8.30
Brownsville, Texas

Percent of Hours in Each Combination of Wind Direction
and Diffusion Rating by Season and Time of Day

Diffusion Rating	Off- shore	Along- shore	On- shore	Calm	Off- shore	Along- shore	On- shore	Calm
All Hours								
Very Good	0.1	0.0	0.0	0.0				
Good	0.4	2.7	2.7	0.0				
Fair	6.6	24.4	28.6	0.0				
Poor	2.8	6.2	14.0	0.1				
Very Poor	1.7	2.7	4.7	2.3				
Day				Night				
Very Good	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	1.0	6.6	6.4	0.0	0.0	0.0	0.0	0.0
Fair	9.0	35.4	40.3	0.0	4.9	16.7	20.3	0.0
Poor	0.3	0.3	0.2	0.3	4.5	10.4	23.8	0.0
Very Poor	0.0	0.0	0.0	0.0	2.9	4.6	8.1	3.8
Spring				Summer				
Very Good	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0
Good	0.3	3.7	2.6	0.0	0.6	5.0	4.8	0.0
Fair	3.7	28.9	39.0	0.0	1.2	14.3	32.3	0.1
Poor	2.5	3.1	10.1	0.0	1.0	6.7	19.1	0.1
Very Poor	1.2	1.2	2.4	1.2	1.4	3.3	7.8	2.2
Fall				Winter				
Very Good	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Good	0.6	1.6	2.6	0.0	0.1	0.6	0.6	0.0
Fair	8.6	21.2	22.0	0.0	13.3	33.4	21.0	0.0
Poor	4.1	8.4	15.0	0.1	3.6	6.5	11.7	0.3
Very Poor	2.8	3.5	5.9	3.5	1.3	2.6	2.8	2.2

Figure 1. Map of the study area showing Brookhaven National Laboratory (BNL) and the stations from which data were used. Station names are given in Table 1

Figure 2. Number and designation of wind direction sectors relative to the coastline