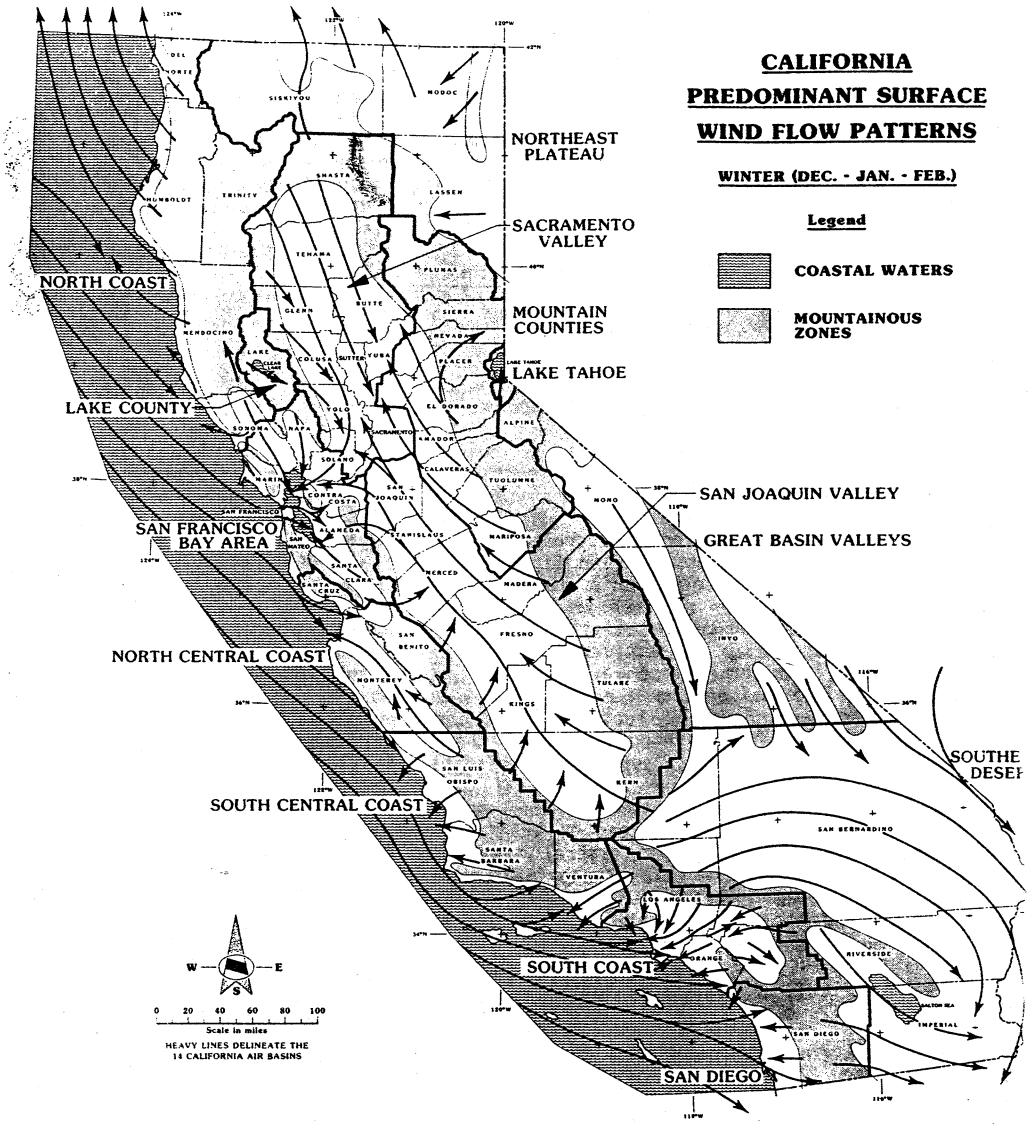


Figure 8.1-2

Surface Wind Flow Patterns
Winter

FOSTER WHEELER ENVIRONMENTAL CORPORATION

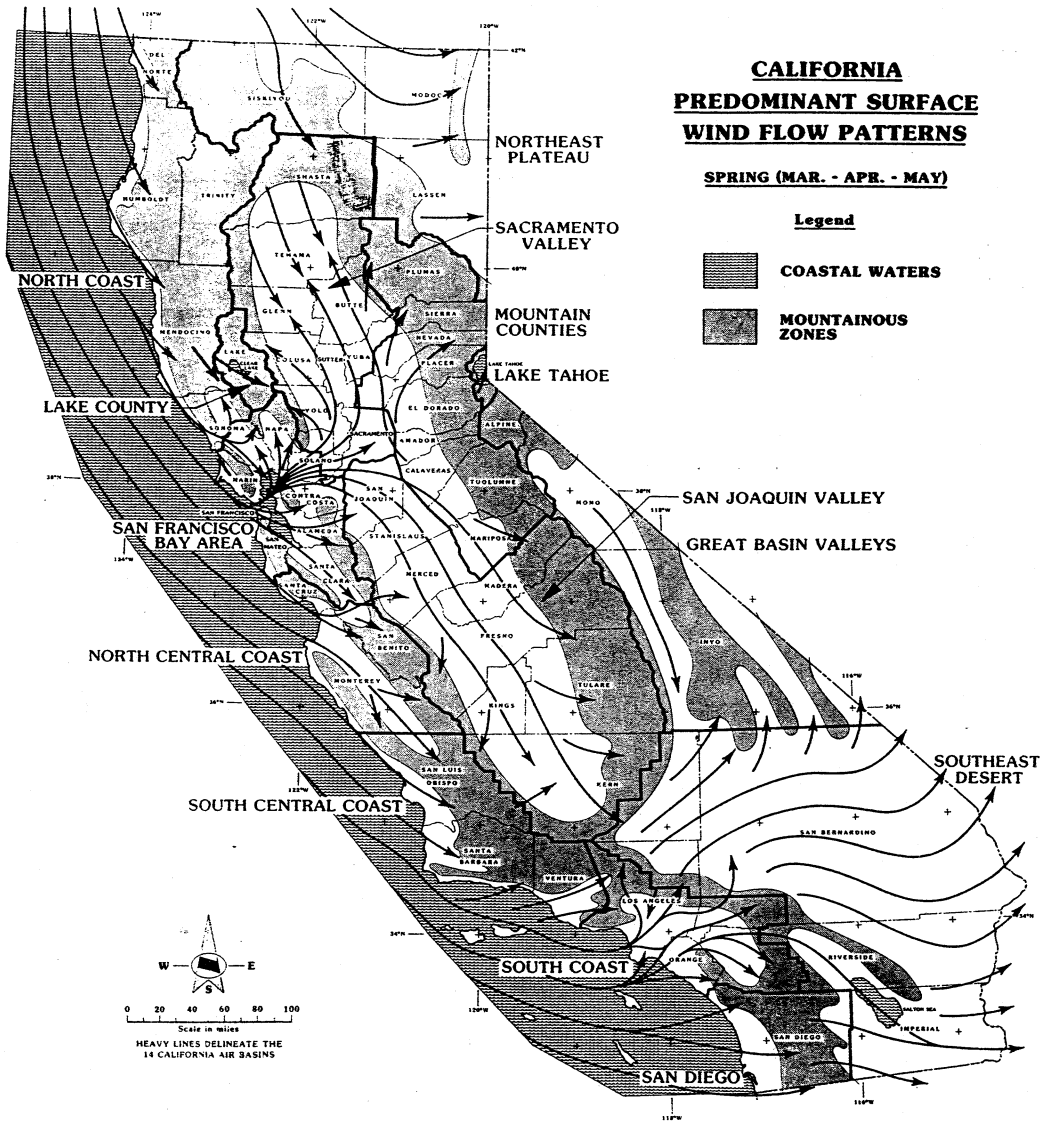


Figure 8.1-3

Surface Wind Flow Patterns
Spring

FOSTER WHEELER ENVIRONMENTAL CORPORATION

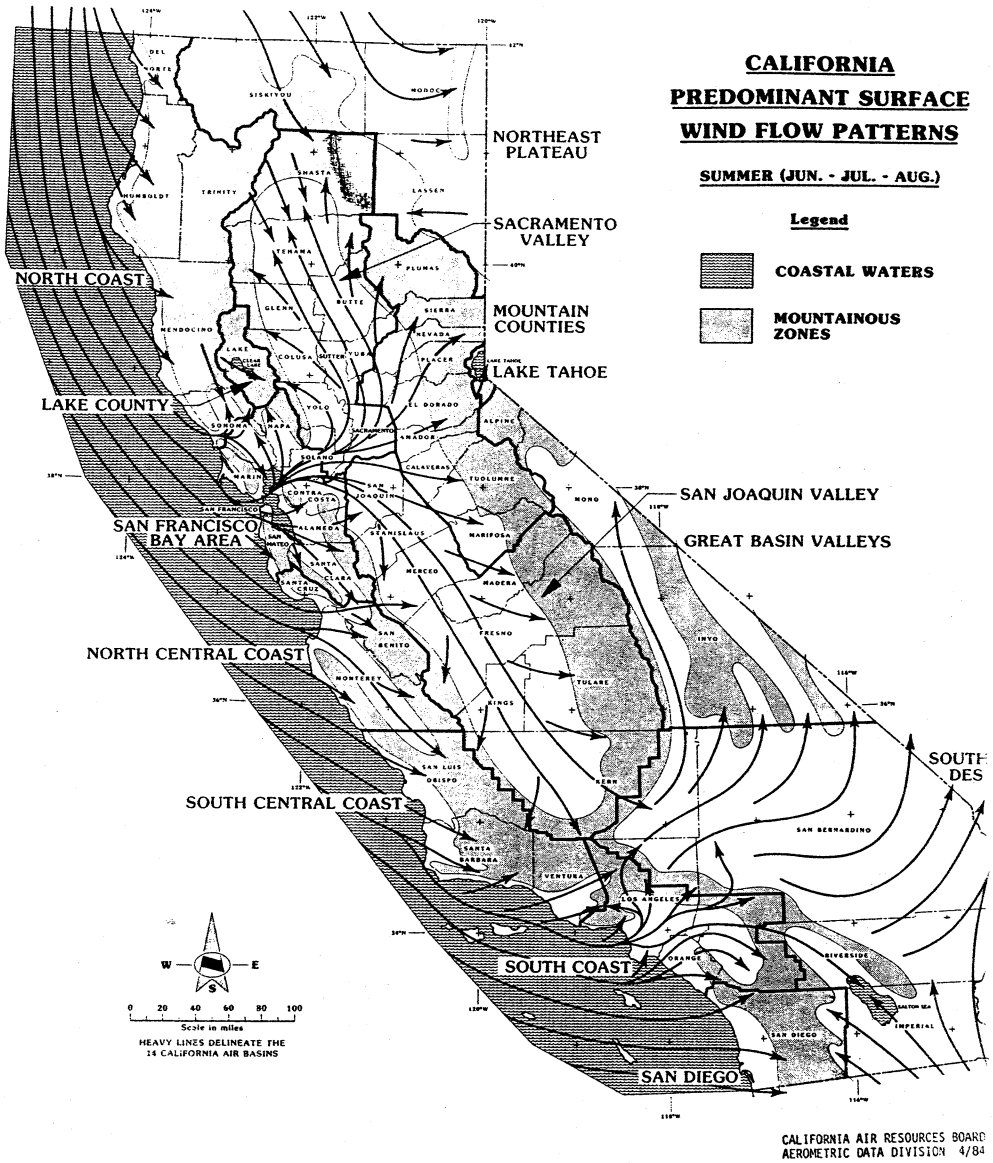


Figure 8.1-4

Surface Wind Flow Patterns
Summer

FOSTER WHEELER ENVIRONMENTAL CORPORATION

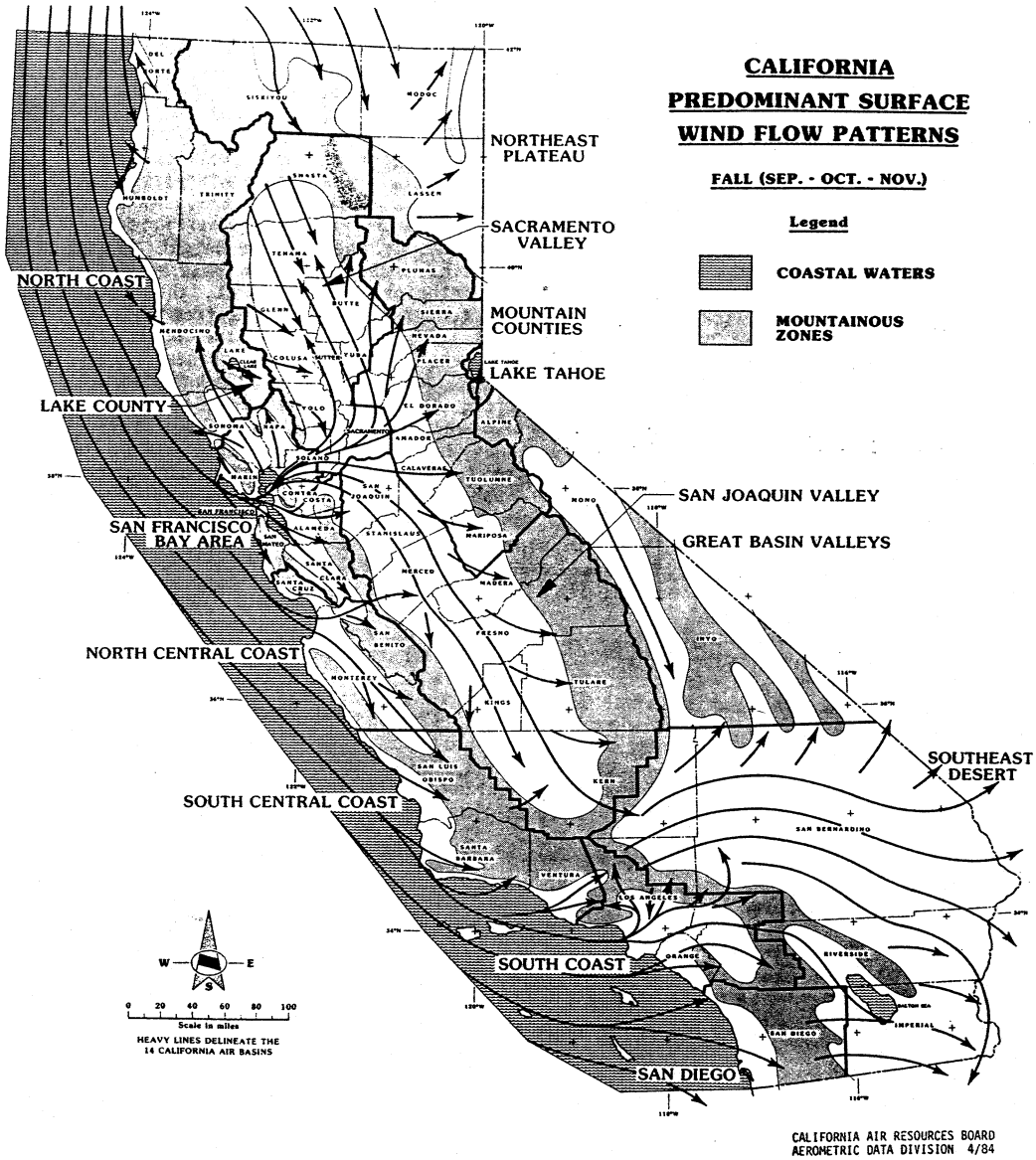


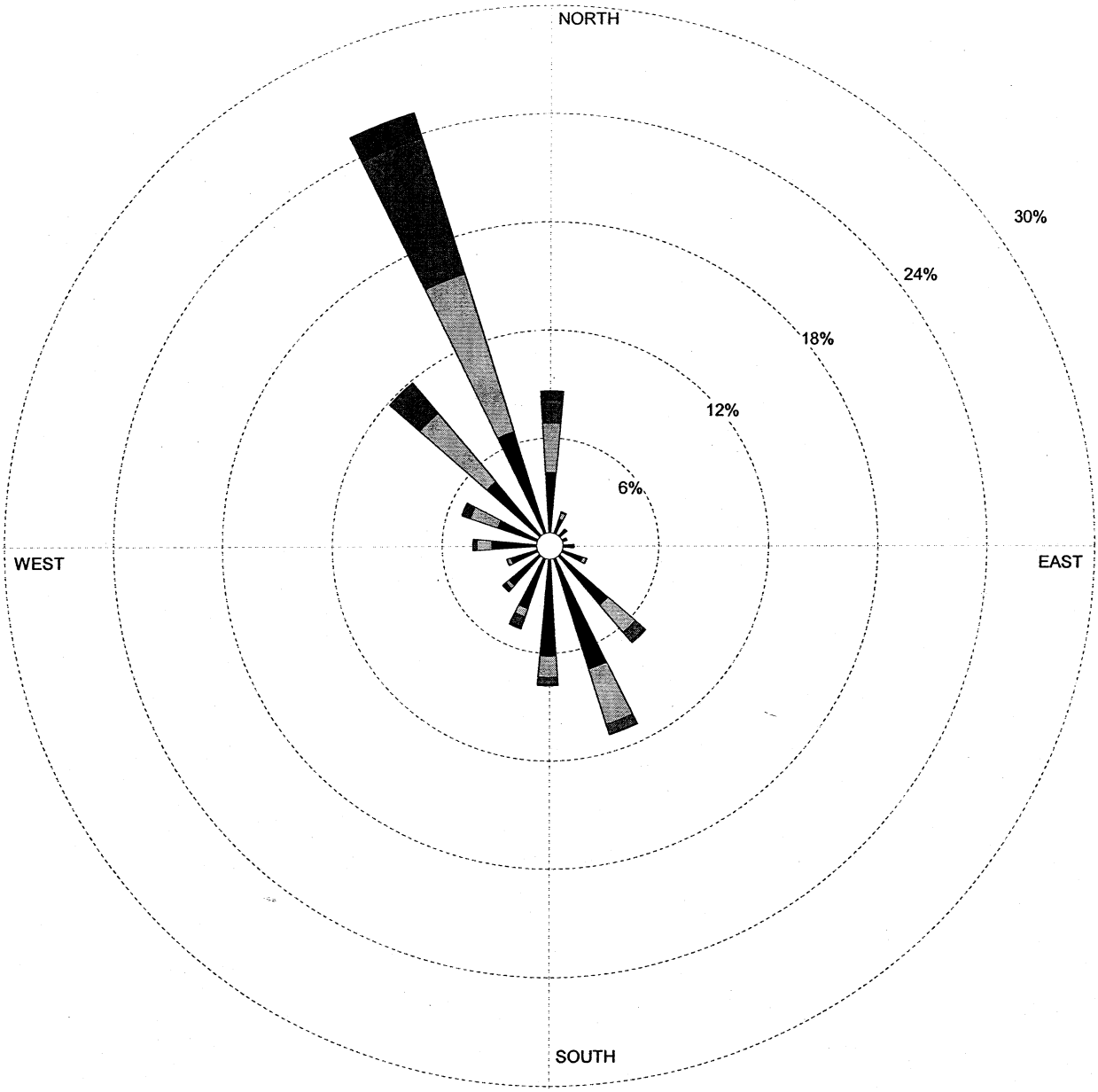
Figure 8.1-5

Surface Wind Flow Patterns
Fall

FOSTER WHEELER ENVIRONMENTAL CORPORATION

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years)-Annual, CA

DISPLAY:
Wind Speed
Direction (blowing from)



Wind Speed
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMPANY NAME:
Cumulative Wind Rose
(1992-1995, 1997)

COMMENTS:

TOTAL COUNT:
43824 hours

MODELER:

CALM WINDS:
0.38%

DATE:
9/3/2002

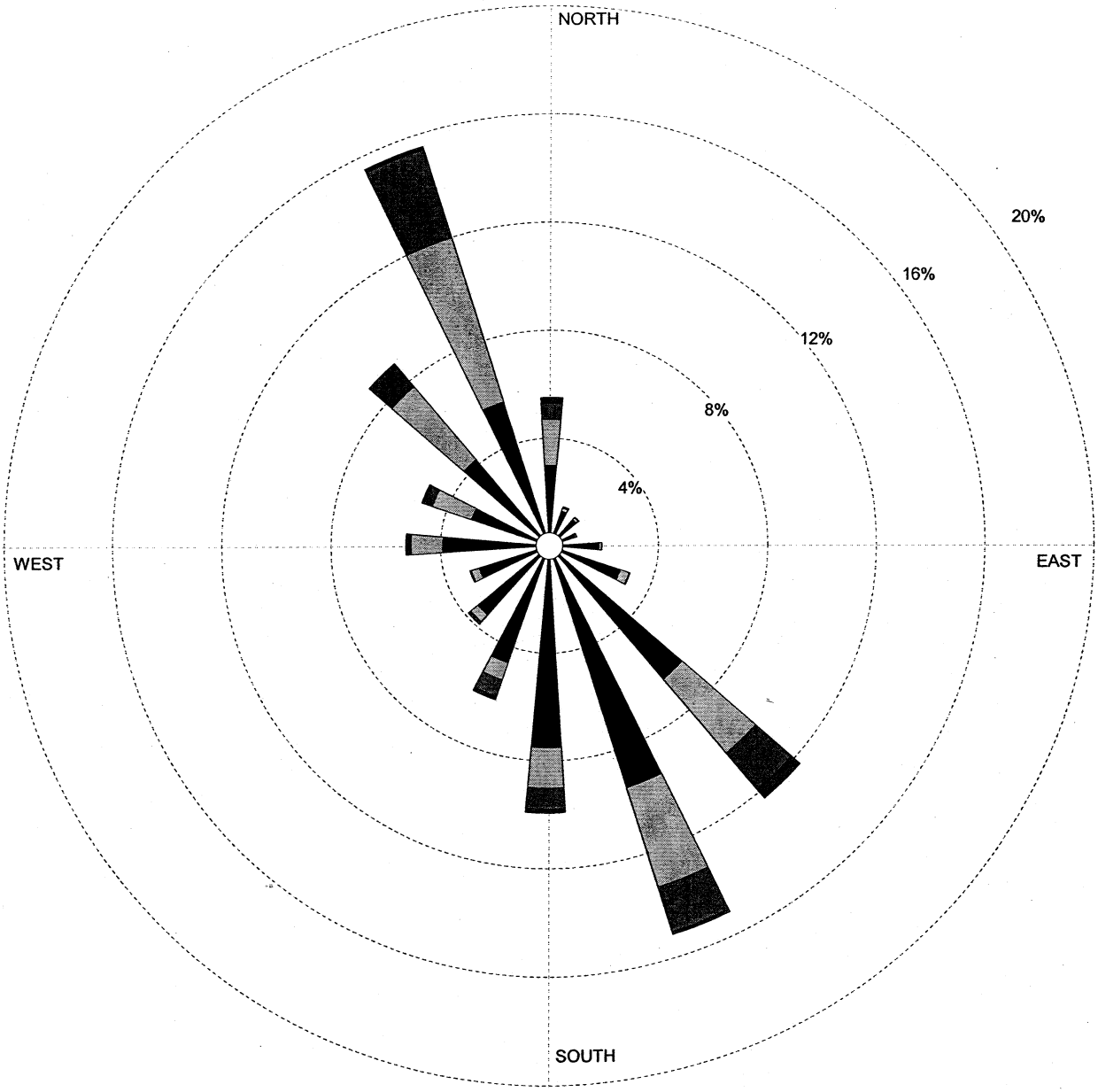
AVG. WIND SPEED:
2.29 m/s

PROJECT NO.:
Figure 8.1-6a

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years) - 1st Quarter, CA

DISPLAY:
Wind Speed
Direction (blowing from)



Wind Speed
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMPANY NAME:
Cumulative 1st Quarter Wind Rose
(1992-1995, 1997)

COMMENTS:

TOTAL COUNT:
10824 hours

MODELER:

CALM WINDS:
0.64%

DATE:
9/3/2002

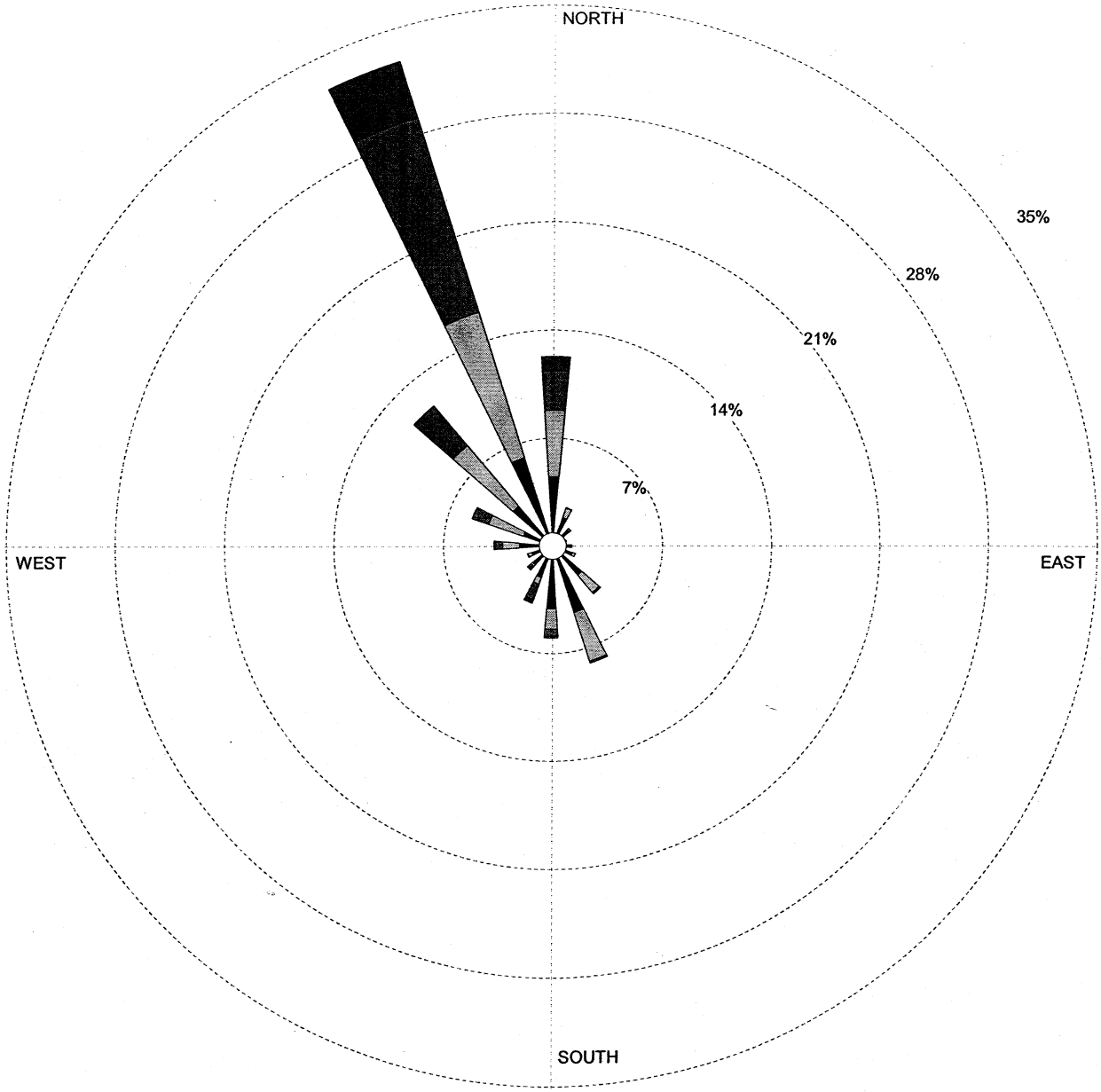
AVG. WIND SPEED:
2.06 m/s

PROJECT NO.:
Figure 8.1-6b

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years) - 2nd Quarter, CA

DISPLAY:
Wind Speed
Direction (blowing from)



Wind Speed (m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMPANY NAME:
Cumulative 2nd Quarter Wind Rose
(1992-1995, 1997)

COMMENTS:

TOTAL COUNT:
10920 hours

MODELER:

CALM WINDS:
0.21%

DATE:
9/3/2002

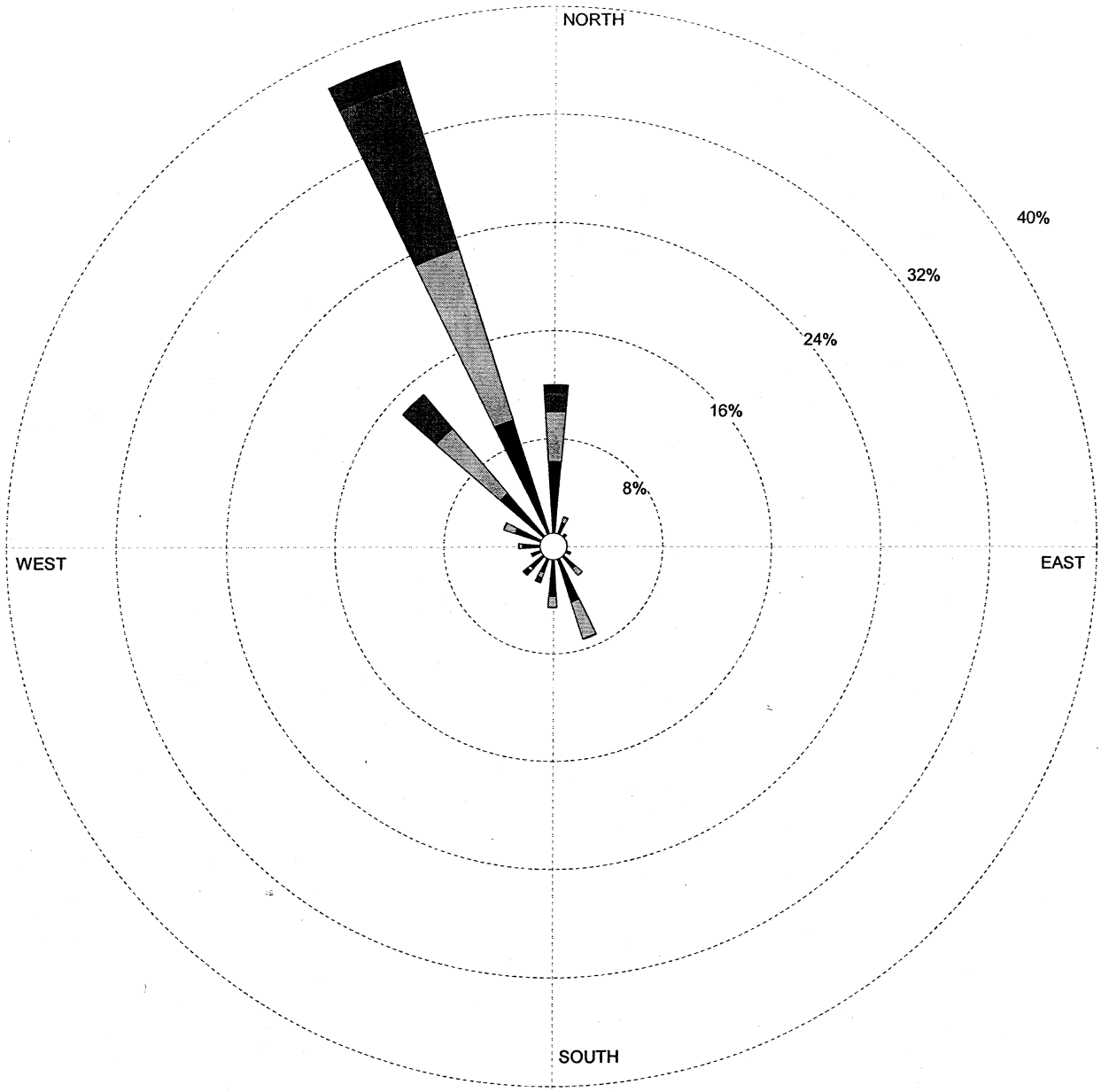
AVG. WIND SPEED:
2.80 m/s

PROJECT NO.:
Figure 8.1-6c

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years) - 3rd Quarter, CA

DISPLAY:
Wind Speed
Direction (blowing from)



Wind Speed
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMMENTS:

COMPANY NAME:
Cumulative 3rd Quarter Wind Rose
(1992-1995, 1997)

TOTAL COUNT:
11040 hours

MODELER:

CALM WINDS:
0.11%

DATE:
9/3/2002

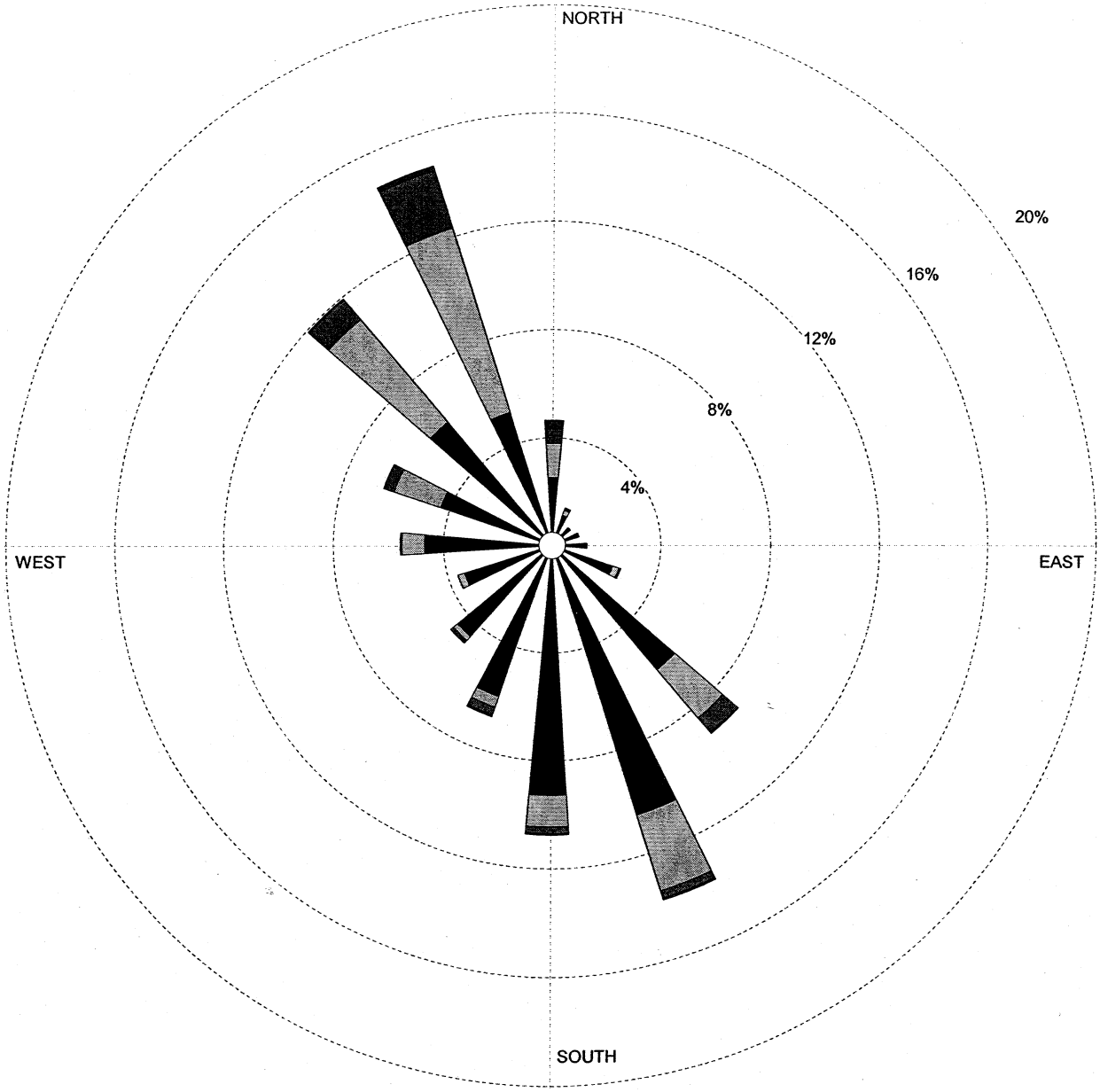
AVG. WIND SPEED:
2.48 m/s

PROJECT NO.:
Figure 8.1-6d

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years) - 4th Quarter, CA

DISPLAY:
Wind Speed
Direction (blowing from)



Wind Speed (m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMMENTS:

COMPANY NAME:
Cumulative 4th Quarter Wind Rose (1992-1995, 1997)

TOTAL COUNT:
11040 hours

MODELER:

CALM WINDS:
0.56%

DATE:
9/3/2002

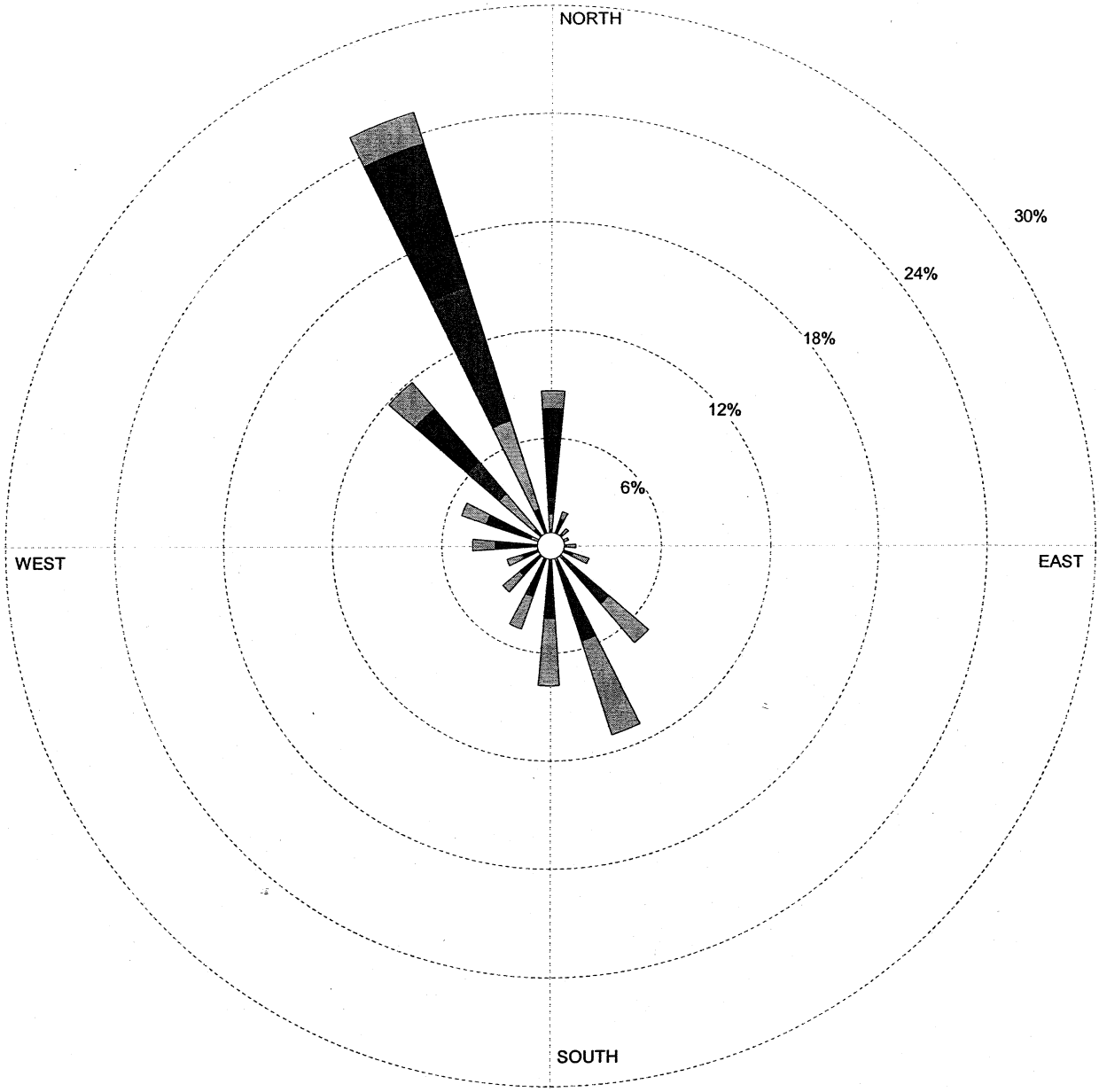
AVG. WIND SPEED:
1.84 m/s

PROJECT NO.:
Figure 8.1-6e

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:
Station #7902 - San Jose Airport (All Years)-Stability Rose, CA

DISPLAY:
Stability Class



Stability Class
- F
- E
- D
- C
- B
- A

DATA PERIOD:
1992
Jan 1 - Dec 31
00:00 - 23:00

COMPANY NAME:
Cumulative Stability Rose
(1992-1995, 1997)

COMMENTS:

TOTAL COUNT:
43824 hours

MODELER:

CALM WINDS:
0.38%

DATE:
9/3/2002

AVG. WIND SPEED:
2.29 m/s

PROJECT NO.:
Figure 8.1-6f

WRPLOT View - Lakes Environmental Software

- BAY AREA AIR FLOW PATTERN TYPES

Figure 8.1-7

Bay Area Wind Flow Pattern Types

FOSTER WHEELER ENVIRONMENTAL CORPORATION

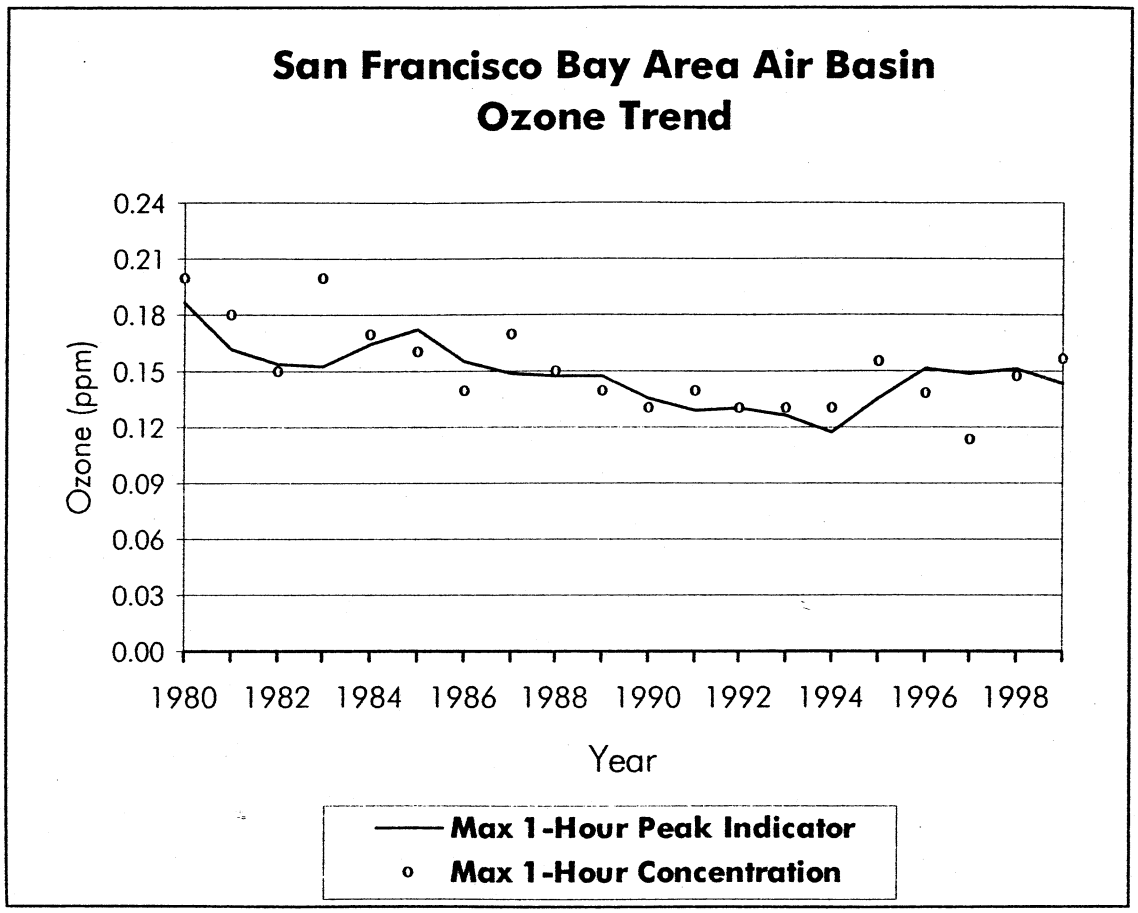


Figure 8.1-8

Bay Area Ozone Trends

FOSTER WHEELER ENVIRONMENTAL CORPORATION

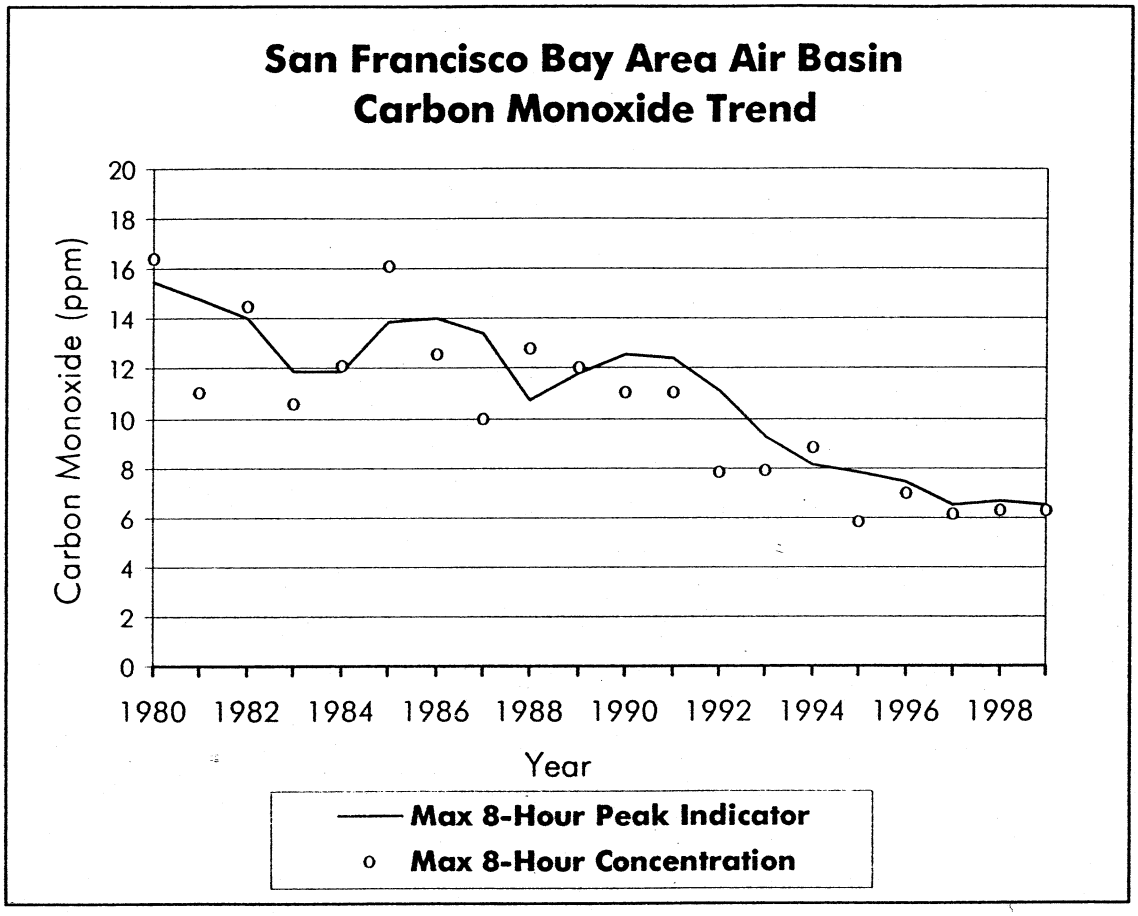


Figure 8.1-9

Bay Area Carbon Monoxide Trends

FOSTER WHEELER ENVIRONMENTAL CORPORATION

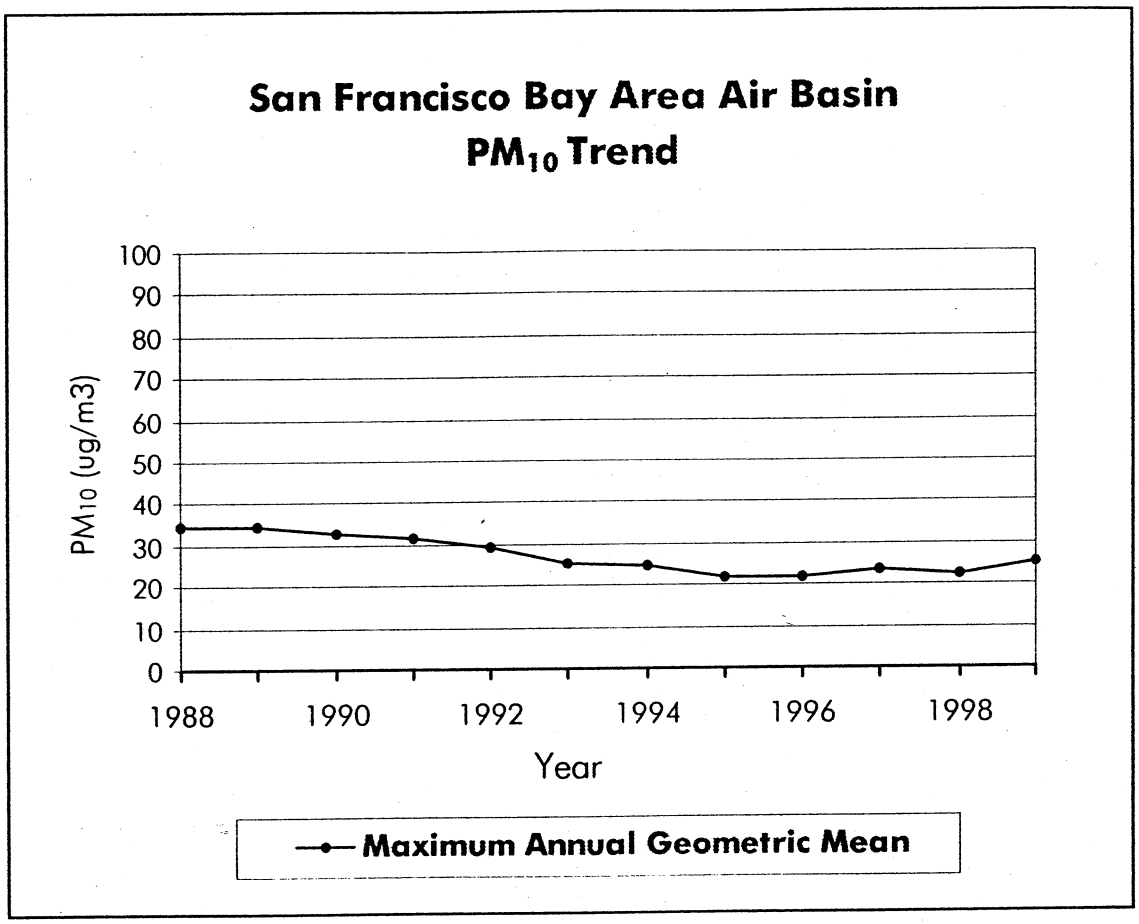
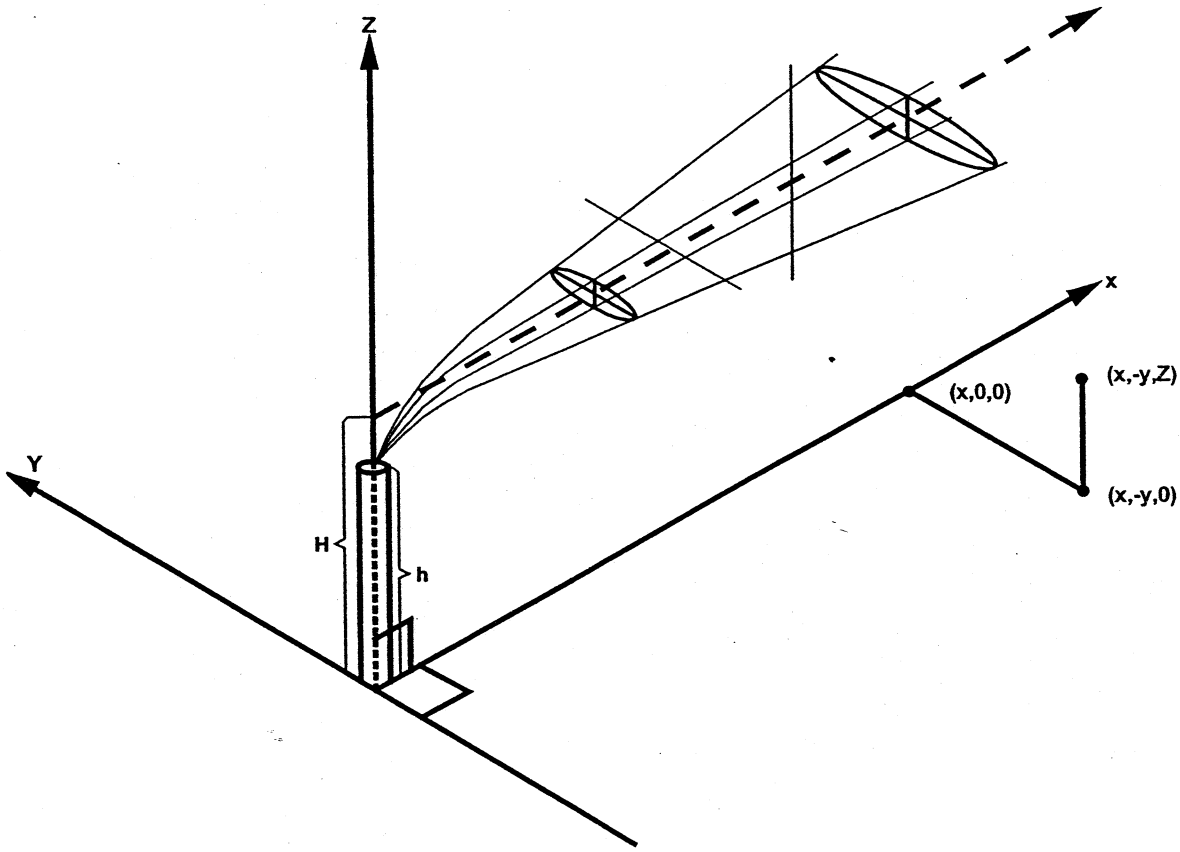


Figure 8.1-10

Bay Area PM10 Trends

FOSTER WHEELER ENVIRONMENTAL CORPORATION



Coordinate system showing Gaussian distributions in the horizontal and vertical.

Figure 8.1-11

Gaussian Plume Diagram

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Coarse And Fine Receptor Grids

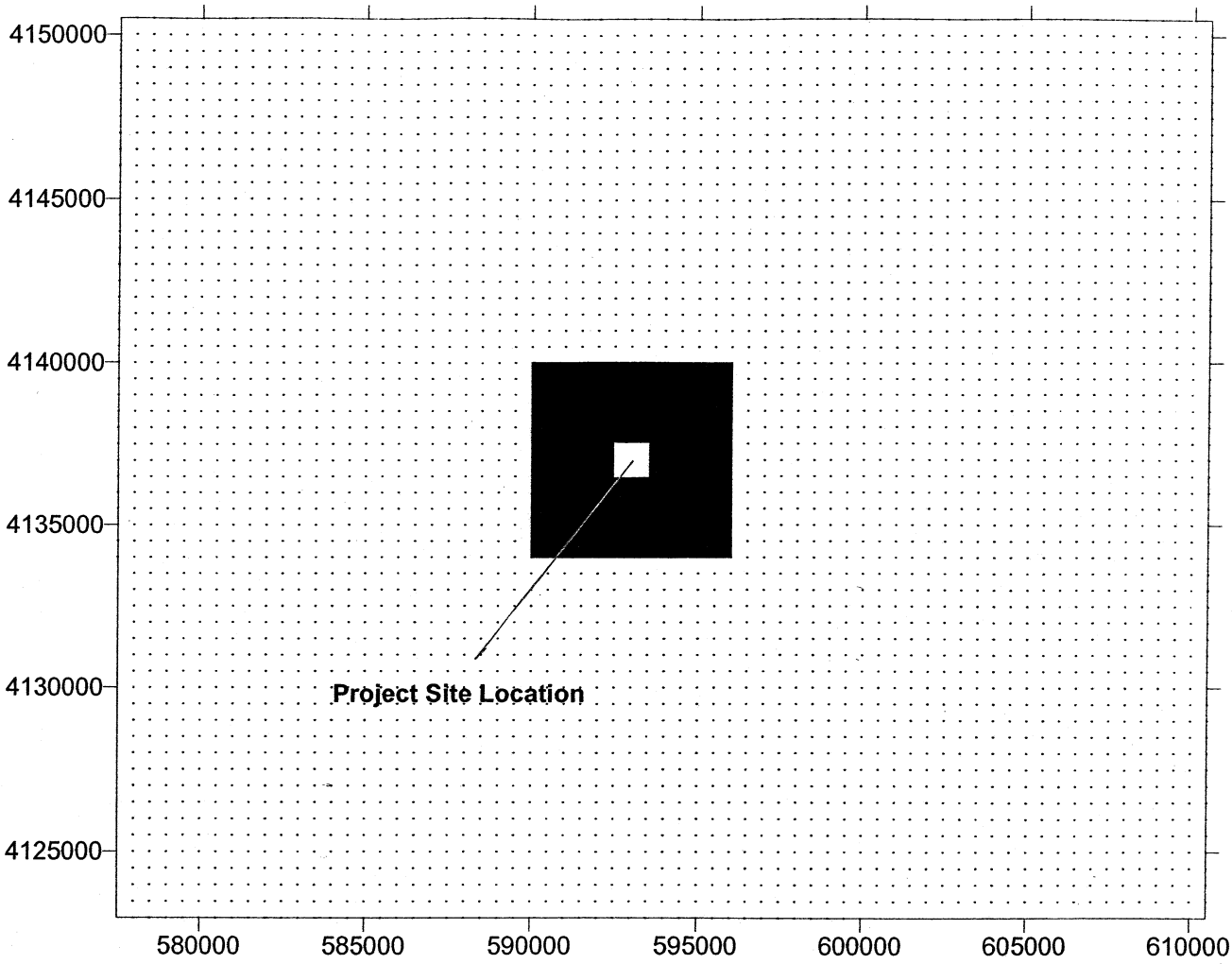


Figure 8.1-12

Modeling Grid

FOSTER WHEELER ENVIRONMENTAL CORPORATION