











TOTAL	2497	2656	2166	2683	2724	2583	2935	2936	2850	2953	2866	2960	32809
MAX	69.8	71.9	77.0	52.5	48.0	42.6	36.7	40.2	57.0	60.1	68.6	64.7	77.0
DATE	1999012913	1999021208	1999030316	1998041820	1998050207	2000061121	1998071502	2001082208	1999092505	2001102221	2001111510	2001121409	1999030316
MIN	3.1	0.0	1.9	1.6	0.2	0.0	0.0	0.0	1.2	0.0	2.5	2.9	0.0
DATE	2001011415	2001022707	2000032607	2001040806	2001050312	1999060915	1999070811	1999081217	1999091103	2000100923	2000110610	2000120304	2001022707

(\* < 0.05% , # = 100.0%)

ELEMENT SUMMARY FOR STATION: TTIW1

(A) TOTAL STDMET RECORDS READ = 69663  
 (B) TOTAL CWIND RECORDS READ = 200800  
 (C) TOTAL RECORDS USED IN STATS = 270463

	AIR TMP	SEA TMP	AIR-SEA	DEWPT	SLP	AVWS	PKGS-8M	PKGS-5S	SIGWVHT	AVWVPD	DWVPD	VSBY
(D) ELEMENT RECORDS AVAILABLE	68985	0	0	0	68966	66676	66632	32809	0	0	0	0
(E) ELEMENT OUT OF RANGE	678	69663	69663	69663	697	2987	3031	167991	69663	69663	69663	69663

STATION: TTIW1 -- POR (1/1994 - 12/2001)

2 - MEANS & EXTREMES BASED ON HOURLY (GMT) OBSERVATIONS -- MONTHLY & ANNUAL BY YEAR

ELEMENT: AIR TEMPERATURE (DEGREES C)

YEAR	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1994	MEAN	8.2	5.6	7.8	9.0	10.8	12.0	12.4	14.7	12.7	9.9	7.0	6.3	9.6
	MAXIMUM	11.9	10.0	13.5	12.8	17.1	15.7	22.1	19.9	16.4	16.1	10.3	12.6	22.1
	DAY-HR	23-03	16-14	29-20	23-00	11-03	09-20	20-09	28-06	07-19	05-01	30-13	24-06	JUL
	MINIMUM	5.0	-0.2	1.8	6.1	6.4	9.3	9.4	10.3	8.7	5.6	3.0	0.0	-0.2
	DAY-HR	31-18	25-04	23-06	06-16	01-13	05-12	11-14	25-15	11-14	31-08	26-04	04-16	FEB
	# OBS	743	648	740	719	739	717	724	733	316	642	713	738	8172
1995	MEAN	7.7	7.7	7.8	8.6	10.7	12.5	13.9	12.9	13.9	11.4	9.8	7.3	10.4
	MAXIMUM	12.9	15.0	13.4	16.2	17.2	24.3	23.0	16.9	23.3	14.9	13.4	12.7	24.3
	DAY-HR	29-06	08-21	09-21	24-01	21-18	30-03	18-02	27-20	21-23	14-21	23-09	10-19	JUN
	MINIMUM	3.3	-0.5	2.9	4.1	7.7	9.4	11.0	9.0	9.4	6.6	5.1	0.2	-0.5
	DAY-HR	07-18	13-16	05-15	10-17	12-13	09-13	16-14	25-17	09-19	31-09	10-22	08-17	FEB
	# OBS	737	668	740	716	740	712	743	741	714	741	717	743	8712
1996	MEAN	5.3	6.5	7.6	9.0	9.6	11.6	12.9	12.9	12.3	10.5	7.2	5.1	9.3
	MAXIMUM	11.4	12.2	14.7	16.3	13.7	18.2	23.5	20.1	16.5	17.5	15.0	10.7	23.5
	DAY-HR	06-20	17-23	09-17	14-23	31-22	03-08	14-08	26-02	10-22	09-14	11-18	01-00	JUL
	MINIMUM	-4.4	1.0	4.0	4.7	5.5	8.4	9.6	8.3	8.6	5.4	0.9	-2.5	-4.4
	DAY-HR	29-18	03-16	24-15	02-20	02-14	18-12	06-13	21-14	22-15	17-20	17-12	29-06	JAN
	# OBS	715	689	741	738	741	718	837	786	715	737	684	736	8837
1997	MEAN	6.4	6.8	6.7	8.7	11.9	13.2	14.2	15.0	15.5	11.7	10.3	8.0	10.7
	MAXIMUM	12.6	10.2	11.0	14.0	23.0	18.1	19.9	22.1	20.8	16.5	14.2	15.6	23.0
	DAY-HR	01-02	24-01	19-01	26-17	11-21	03-02	04-22	09-22	08-22	01-23	10-00	14-00	MAY
	MINIMUM	-1.4	3.1	1.2	5.2	6.8	10.0	10.7	9.5	11.8	7.9	5.9	4.0	-1.4
	DAY-HR	26-16	11-22	13-03	05-13	02-09	21-00	24-13	20-12	16-20	21-15	25-11	21-00	JAN
	# OBS	739	658	738	706	738	709	732	733	715	739	704	741	8652
1998	MEAN	6.3	7.9	8.1	8.3	10.3	11.4	13.0	13.8	12.3	11.0	9.1	5.8	9.8
	MAXIMUM	12.7	12.8	13.3	14.6	13.3	14.9	18.5	17.3	18.1	15.6	12.5	11.2	18.5
	DAY-HR	29-01	07-03	12-15	28-19	29-22	29-00	26-23	13-00	06-20	07-02	15-08	13-03	JUL
	MINIMUM	-2.2	3.5	2.2	4.0	6.7	8.3	10.5	9.3	7.7	7.8	5.0	-4.6	-4.6
	DAY-HR	11-15	23-02	27-15	12-15	16-13	21-14	18-12	28-14	29-15	29-17	29-13	20-16	DEC
	# OBS	715	665	709	692	715	682	730	785	707	740	715	738	8593
1999	MEAN	6.4	5.7	6.0	7.5	8.6	10.7	11.4	12.9	11.4	9.7	8.7	7.1	8.9
	MAXIMUM	9.4	10.8	13.0	18.4	16.9	20.2	17.7	16.7	20.8	13.8	14.1	10.4	20.8
	DAY-HR	14-13	12-06	20-21	16-00	23-22	12-10	06-19	20-01	14-00	05-12	16-07	17-20	SEP
	MINIMUM	2.2	0.3	2.1	3.6	3.4	6.5	8.0	10.2	6.7	5.2	3.0	3.3	0.3
	DAY-HR	28-22	09-17	16-03	03-05	07-16	06-12	20-08	30-13	30-18	01-12	27-14	28-17	FEB
	# OBS	743	660	719	718	743	719	736	739	716	737	694	741	8665
2000	MEAN	5.4	6.8	6.8	8.2	9.9	11.5	12.5	12.3	12.3	10.6	7.4	6.3	9.2
	MAXIMUM	9.2	12.2	9.8	14.3	15.0	21.1	17.1	16.1	18.2	16.2	11.0	11.1	21.1
	DAY-HR	30-01	07-17	26-21	27-08	15-17	27-19	29-21	28-22	27-01	06-01	04-09	26-10	JUN
	MINIMUM	0.8	3.6	3.6	4.5	5.4	8.0	9.9	8.8	8.1	7.3	3.7	0.3	0.3
	DAY-HR	11-18	18-12	06-15	07-14	05-14	10-13	17-14	22-14	23-14	30-15	17-16	16-06	DEC
	# OBS	723	693	738	699	729	715	739	743	718	738	714	743	8692
2001	MEAN	7.0	5.7	7.1	7.7	9.1	10.7	11.5	12.7	11.8	10.0	8.5	6.3	9.0
	MAXIMUM	14.8	10.2	12.0	13.2	14.2	14.7	15.6	18.8	15.8	19.0	14.4	10.3	19.0
	DAY-HR	08-05	02-02	25-03	15-21	31-23	27-19	02-20	10-10	23-00	05-00	15-07	28-03	OCT
	MINIMUM	3.3	-1.0	2.8	3.3	6.0	7.8	9.5	10.1	8.1	6.2	1.8	1.9	-1.0
	DAY-HR	17-05	16-09	27-22	06-15	06-14	04-12	28-14	20-14	11-16	28-14	28-16	05-04	FEB
	# OBS	743	672	741	715	740	717	740	674	716	741	720	743	8662

POR	MEAN	6.6	6.6	7.2	8.4	10.1	11.7	12.7	13.4	12.8	10.6	8.5	6.5	9.6
	MAXIMUM	14.8	15.0	14.7	18.4	23.0	24.3	23.5	22.1	23.3	19.0	15.0	15.6	24.3
	YEAR	2001	1995	1996	1999	1997	1995	1996	1997	1995	2001	1996	1997	JUN/1995
	MINIMUM	-4.4	-1.0	1.2	3.3	3.4	6.5	8.0	8.3	6.7	5.2	0.9	-4.6	-4.6
	YEAR	1996	2001	1997	2001	1999	1999	1999	1996	1999	1999	1996	1998	DEC/1998
	# OBS	5858	5353	5866	5703	5885	5689	5981	5934	5317	5815	5661	5923	68985

STATION: TTIW1 -- POR (1/1994 - 12/2001)

2 - MEANS & EXTREMES BASED ON HOURLY (GMT) OBSERVATIONS -- MONTHLY & ANNUAL BY YEAR

ELEMENT: SEA LEVEL PRESSURE (MILLIBARS)

YEAR	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1994	MEAN	1019.9	1012.0	1018.0	1017.1	1016.7	1018.4	1019.5	1018.4	1016.5	1015.0	1012.9	1012.3	1016.4
	MAXIMUM	1037.1	1031.7	1033.2	1028.1	1025.5	1027.0	1026.0	1024.8	1026.5	1024.7	1031.7	1029.0	1037.1
	DAY-HR	30-19	01-07	12-17	01-19	01-00	01-23	06-20	29-21	04-21	07-18	21-18	08-04	JAN
	MINIMUM	996.8	989.0	992.9	998.2	1003.6	996.8	1011.3	1011.0	1006.9	995.4	989.3	996.5	989.0
	DAY-HR	04-14	17-14	21-07	08-22	15-16	13-04	01-14	08-14	03-04	31-13	09-02	16-03	FEB
	# OBS	743	647	740	719	737	717	724	733	315	642	712	738	8167
1995	MEAN	1007.2	1017.8	1011.2	1015.7	1016.3	1017.4	1017.8	1015.8	1016.2	1018.0	1014.0	1012.7	1015.0
	MAXIMUM	1021.7	1027.8	1034.0	1030.0	1025.8	1025.8	1028.7	1022.6	1024.8	1029.6	1030.8	1028.3	1034.0
	DAY-HR	19-17	03-19	26-20	22-17	19-00	23-17	30-18	13-07	20-19	19-03	03-16	08-05	MAR
	MINIMUM	987.1	996.5	974.0	994.7	1004.3	1006.2	1005.9	1000.5	1001.6	999.6	990.5	964.8	964.8
	DAY-HR	10-02	17-15	09-23	07-12	01-19	17-13	26-11	07-00	27-16	25-23	18-04	13-00	DEC
	# OBS	737	668	740	716	740	712	743	741	714	741	717	743	8712
1996	MEAN	1012.5	1011.4	1017.8	1015.0	1017.4	1019.6	1018.3	1017.8	1016.2	1015.5	1015.1	1007.9	1015.4
	MAXIMUM	1028.8	1028.3	1031.0	1033.9	1028.4	1026.6	1028.2	1024.7	1025.3	1034.6	1031.2	1039.8	1039.8
	DAY-HR	01-11	10-08	16-13	27-22	24-09	29-15	05-21	21-21	23-05	27-06	26-03	14-18	DEC
	MINIMUM	988.9	980.1	994.4	989.8	994.7	1008.3	1009.5	1008.0	998.6	993.0	993.2	976.5	976.5
	DAY-HR	19-02	20-10	04-23	24-00	17-22	23-19	15-11	27-00	15-10	18-01	19-14	10-10	DEC
	# OBS	715	688	741	738	741	718	837	786	715	737	684	736	8836
1997	MEAN	1014.6	1021.1	1015.4	1017.7	1016.8	1015.7	1018.5	1016.2	1012.6	1013.8	1010.5	1017.8	1015.9
	MAXIMUM	1030.0	1037.5	1030.5	1037.1	1027.9	1026.2	1023.6	1026.6	1024.5	1027.2	1028.1	1034.8	1037.5
	DAY-HR	05-23	24-18	14-00	02-09	07-16	24-06	15-22	05-16	27-18	13-20	02-00	10-23	FEB
	MINIMUM	973.2	1001.8	988.9	998.2	1006.4	1003.2	1010.6	1006.6	991.9	986.8	991.7	990.6	973.2
	DAY-HR	01-10	17-02	15-23	20-07	03-03	03-16	09-01	26-13	17-09	10-02	23-14	07-22	JAN
	# OBS	739	658	738	706	737	709	732	733	715	739	704	741	8651
1998	MEAN	1005.4	1004.2	1014.7	1018.1	1015.2	1017.5	1017.9	1020.3	1015.6	1016.6	1008.7	1018.9	1014.5
	MAXIMUM	1019.4	1021.9	1023.7	1030.2	1026.2	1028.4	1023.4	1027.3	1022.7	1032.1	1023.7	1038.9	1038.9
	DAY-HR	08-19	27-16	17-20	26-23	31-06	14-20	06-23	12-18	11-20	19-06	18-21	21-01	DEC
	MINIMUM	986.1	984.8	993.1	1002.1	1003.7	1005.4	1011.7	1015.2	1007.0	1005.2	971.5	989.2	971.5
	DAY-HR	17-09	21-03	23-18	11-10	13-02	24-18	29-08	25-10	25-18	01-23	24-06	28-01	NOV
	# OBS	716	665	709	691	715	682	729	785	707	740	714	738	8591
1999	MEAN	1015.4	1008.2	1011.7	1020.5	1019.2	1017.7	1018.8	1017.0	1018.9	1019.8	1013.5	1021.1	1016.9
	MAXIMUM	1035.1	1025.5	1026.9	1039.9	1029.8	1024.0	1027.8	1026.0	1030.0	1036.4	1039.1	1037.9	1039.9
	DAY-HR	02-19	11-01	02-07	14-15	22-18	27-22	11-19	21-22	27-23	16-17	01-07	20-18	APR
	MINIMUM	991.8	978.8	978.1	1003.9	997.7	1008.6	1009.1	1008.8	1002.2	984.3	997.9	995.9	978.1
	DAY-HR	18-14	06-22	03-14	08-00	03-12	24-12	03-11	25-07	25-04	28-08	19-23	02-10	MAR
	# OBS	743	660	719	718	742	719	736	739	716	737	694	741	8664
2000	MEAN	1015.5	1012.9	1019.2	1018.7	1016.8	1018.8	1019.2	1018.8	1017.0	1015.4	1019.9	1019.3	1017.6
	MAXIMUM	1034.5	1030.7	1036.9	1035.2	1026.8	1027.8	1026.8	1027.8	1027.4	1029.8	1031.2	1037.4	1037.4
	DAY-HR	27-19	02-20	31-19	01-00	19-23	15-21	23-21	16-00	06-19	22-18	17-16	18-06	DEC
	MINIMUM	987.2	992.2	1005.9	1005.3	1003.8	999.7	1011.6	1008.8	1004.2	990.8	998.1	991.6	987.2
	DAY-HR	16-22	22-16	14-03	14-14	10-10	12-09	27-11	31-16	08-11	28-07	29-15	15-00	JAN
	# OBS	723	693	738	699	729	713	739	744	719	738	717	742	8694
2001	MEAN	1018.2	1017.2	1018.2	1016.1	1020.6	1019.2	1019.2	1017.1	1017.0	1017.4	1011.3	1010.5	1016.8
	MAXIMUM	1033.6	1030.3	1028.0	1025.6	1034.9	1028.9	1024.2	1026.7	1027.1	1029.7	1028.5	1031.4	1034.9
	DAY-HR	15-19	03-20	14-20	14-09	02-19	18-19	13-22	07-19	07-20	18-06	07-19	07-16	MAY
	MINIMUM	993.9	1002.5	996.9	1002.8	1004.4	1006.1	1011.2	1004.8	1007.7	993.6	980.4	979.0	979.0
	DAY-HR	10-03	10-22	01-23	30-16	16-04	27-11	16-10	22-07	01-09	31-05	28-18	01-16	DEC
	# OBS	741	672	738	715	737	715	740	675	714	741	720	743	8651
POR	MEAN	1013.6	1013.1	1015.8	1017.4	1017.4	1018.0	1018.6	1017.7	1016.2	1016.5	1013.2	1015.1	1016.1
	MAXIMUM	1037.1	1037.5	1036.9	1039.9	1034.9	1028.9	1028.7	1027.8	1030.0	1036.4	1039.1	1039.8	1039.9
	YEAR	1994	1997	2000	1999	2001	2001	1995	2000	1999	1999	1999	1996	APR/1999
	MINIMUM	973.2	978.8	974.0	989.8	994.7	996.8	1005.9	1000.5	991.9	984.3	971.5	964.8	964.8
	YEAR	1997	1999	1995	1996	1996	1994	1995	1995	1997	1999	1998	1995	DEC/1995
	# OBS	5857	5351	5863	5702	5878	5685	5980	5936	5315	5815	5662	5922	68966

STATION: TTIWL -- POR (1/1994 - 12/2001)

2 - MEANS & EXTREMES BASED ON HOURLY (GMT) OBSERVATIONS -- MONTHLY & ANNUAL BY YEAR

ELEMENT: AVERAGE WIND SPEED (KNOTS)

YEAR	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1994	MEAN	13.9	17.3	15.6	11.7	10.3	9.5	10.5	7.6	8.4	11.7	16.1	20.2	12.9
	MAXIMUM	39.5	49.0	61.0	30.5	32.3	35.0	30.7	28.2	24.9	44.3	47.8	53.5	61.0
	DAY-HR	20-08	13-03	21-10	14-22	04-08	13-06	23-17	27-16	08-01	31-12	30-06	19-15	MAR
	MINIMUM	0.2	0.6	0.4	0.0	0.2	0.0	0.8	0.0	0.6	0.0	0.0	0.8	0.0
	DAY-HR	19-09	22-11	13-17	27-09	14-05	09-06	24-16	30-12	11-19	16-18	25-20	03-18	NOV
	# OBS	740	649	739	719	738	718	724	733	316	642	713	738	8169
1995	MEAN	22.3	16.3	15.5	10.7	9.5	9.7	8.6	9.2	9.6	13.8	19.4	20.3	13.7
	MAXIMUM	46.1	48.8	56.0	29.5	24.9	28.4	28.6	28.6	33.2	45.7	62.0	48.4	62.0
	DAY-HR	07-06	17-17	10-01	13-11	01-13	07-00	20-09	06-20	22-14	25-22	18-04	11-11	NOV
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0
	DAY-HR	16-09	25-18	31-01	30-20	18-15	28-07	24-14	28-18	17-15	22-05	04-07	07-03	OCT
	# OBS	737	666	739	716	740	712	743	741	714	741	716	743	8708
1996	MEAN	17.2	-	12.9	13.3	10.3	8.2	9.2	9.1	9.2	13.7	14.0	20.2	12.4
	MAXIMUM	53.1	-	37.7	50.2	28.8	27.4	26.6	29.9	32.1	37.3	37.9	60.1	60.1
	DAY-HR	19-02	-	18-14	24-00	18-05	10-21	28-19	27-00	23-15	24-02	24-00	29-13	DEC
	MINIMUM	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
	DAY-HR	30-15	-	27-06	27-11	26-13	29-15	26-14	29-00	27-15	27-04	17-12	15-10	DEC
	# OBS	665	-	457	738	741	718	837	786	715	737	684	736	7814
1997	MEAN	17.8	14.7	17.3	13.4	11.8	9.7	8.0	8.7	12.8	14.7	19.9	17.3	13.8
	MAXIMUM	58.7	38.1	46.1	36.5	33.2	30.3	23.5	23.1	42.8	51.9	41.4	41.0	58.7
	DAY-HR	01-12	12-11	18-05	16-15	06-02	04-02	08-15	15-04	26-21	10-02	28-09	14-11	JAN
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
	DAY-HR	11-01	28-04	16-17	25-08	30-07	30-14	25-18	30-05	23-12	16-04	07-09	30-18	DEC
	# OBS	739	658	738	707	738	709	732	726	715	739	704	741	8646
1998	MEAN	21.0	17.0	12.3	9.1	8.8	9.7	9.6	7.4	7.6	13.5	17.3	16.7	12.6
	MAXIMUM	52.1	37.5	48.6	28.6	38.9	29.0	27.6	22.4	22.0	33.8	51.9	41.2	52.1
	DAY-HR	11-14	21-03	24-02	29-18	02-07	22-20	15-02	23-20	15-16	21-07	24-07	13-03	JAN
	MINIMUM	0.2	0.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
	DAY-HR	07-21	15-05	17-15	28-19	12-13	20-13	31-14	31-11	27-12	26-22	13-20	04-15	DEC
	# OBS	716	665	709	691	589	449	730	785	707	740	714	738	8233
1999	MEAN	15.1	20.5	17.5	12.4	10.7	9.1	8.9	8.4	10.6	13.6	15.0	17.1	13.2
	MAXIMUM	58.7	46.5	48.2	39.5	31.3	29.0	30.3	31.9	47.2	42.0	39.9	40.0	58.7
	DAY-HR	29-08	22-19	03-16	15-15	17-15	05-06	07-02	25-09	25-04	27-14	03-23	18-01	JAN
	MINIMUM	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0
	DAY-HR	26-15	10-20	20-21	29-10	30-13	30-11	30-08	30-10	18-06	24-15	21-07	21-06	OCT
	# OBS	742	660	719	719	743	719	736	736	716	725	694	741	8650
2000	MEAN	17.8	14.7	12.0	11.0	10.9	9.0	8.2	8.7	9.4	12.3	12.8	16.8	12.0
	MAXIMUM	53.1	43.5	41.2	33.2	37.1	33.0	28.4	27.6	38.9	38.9	42.6	48.6	53.1
	DAY-HR	16-23	03-14	17-16	27-05	03-03	11-21	13-22	18-09	14-15	18-01	29-06	16-18	JAN
	MINIMUM	1.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	DAY-HR	27-16	19-03	26-21	19-12	15-16	05-15	29-02	30-08	16-15	30-23	12-11	19-03	DEC
	# OBS	723	693	738	699	729	715	738	744	718	737	718	743	8695
2001	MEAN	16.0	14.1	-	12.4	11.7	8.0	8.9	9.9	8.8	14.8	16.0	21.5	13.0
	MAXIMUM	47.2	42.2	-	42.6	38.9	23.3	20.2	33.4	30.3	43.9	51.3	54.4	54.4
	DAY-HR	10-07	17-12	-	30-16	16-05	09-20	16-20	21-14	30-20	23-07	15-12	14-09	DEC
	MINIMUM	0.0	0.0	-	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.0	0.6	0.0
	DAY-HR	14-14	24-15	-	08-09	03-15	17-14	22-12	01-10	30-03	20-22	07-22	05-08	OCT
	# OBS	743	626	-	599	740	717	741	675	716	741	720	743	7761
POR	MEAN	17.6	16.4	14.8	11.8	10.5	9.1	9.0	8.6	9.6	13.5	16.3	18.8	13.0
	MAXIMUM	58.7	49.0	61.0	50.2	38.9	35.0	30.7	33.4	47.2	51.9	62.0	60.1	62.0
	YEAR	1999	1994	1994	1996	2001	1994	1994	2001	1999	1997	1995	1996	NOV/1995
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YEAR	2001	2001	2000	2001	2001	2000	2001	2001	2001	2001	2000	2000	OCT/2001
	# OBS	5805	4617	4839	5588	5758	5457	5981	5926	5317	5802	5663	5923	66676

STATION: TTIWL -- POR (1/1994 - 12/2001)

2 - HIGHEST 5-SECOND AVERAGE DURING 2 OR 8-MINUTE PERIOD PRIOR TO OBSERVATION TIME -- MONTHLY & ANNUAL BY YEAR

ELEMENT: PEAK WIND GUST (KNOTS)

YEAR	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1994	MEAN	16.4	20.5	18.0	13.5	11.7	10.7	11.8	8.7	10.0	13.6	19.3	24.0	15.1
	MAXIMUM	47.2	57.7	67.7	35.8	36.5	41.8	32.1	30.7	30.7	49.6	53.7	63.6	67.7



	DAY-HR	20-08	15-12	21-10	03-21	04-08	13-08	23-17	28-11	08-01	31-12	30-07	19-15	MAR
	# OBS	740	648	739	719	736	717	718	732	315	642	713	738	8157
1995	MEAN	26.2	19.2	18.4	12.7	11.0	11.2	9.9	10.6	11.1	16.3	22.6	24.1	16.1
	MAXIMUM	55.2	56.2	63.8	34.2	28.4	31.3	31.3	32.3	35.8	53.5	70.0	57.3	70.0
	DAY-HR	07-09	13-05	14-20	12-18	01-13	07-00	01-09	06-20	22-14	25-22	18-04	10-19	NOV
	# OBS	737	666	739	716	740	712	742	741	714	741	716	743	8707
1996	MEAN	20.4	-	15.0	15.9	11.9	9.4	10.5	10.4	10.6	15.9	16.3	24.0	14.4
	MAXIMUM	59.5	-	43.5	56.2	34.8	29.4	29.2	31.5	37.9	45.9	46.9	72.7	72.7
	DAY-HR	19-02	-	18-14	24-00	18-01	10-21	28-20	27-00	13-18	24-02	24-01	29-13	DEC
	# OBS	665	-	457	738	741	718	837	786	715	737	684	736	7814
1997	MEAN	20.9	17.0	20.4	15.5	13.4	11.3	9.3	10.1	14.8	17.0	22.9	20.5	16.1
	MAXIMUM	69.4	45.3	59.7	43.7	36.2	34.6	27.6	26.6	48.6	58.9	53.8	51.5	69.4
	DAY-HR	01-11	12-11	31-00	16-15	06-02	26-22	08-16	23-17	26-21	10-02	28-09	14-11	JAN
	# OBS	739	658	738	706	737	709	732	726	715	739	703	741	8643
1998	MEAN	25.1	20.6	14.4	10.7	10.1	10.9	10.8	8.5	8.7	15.6	20.5	20.0	14.8
	MAXIMUM	61.8	47.2	57.5	31.1	47.4	29.9	32.3	22.9	23.7	38.3	61.8	48.4	61.8
	DAY-HR	11-14	21-03	24-02	29-18	02-07	22-20	15-02	23-20	15-16	20-16	24-07	13-03	NOV
	# OBS	716	665	709	691	588	448	730	785	707	738	712	738	8227
1999	MEAN	17.7	24.6	20.8	14.3	12.3	10.3	10.0	9.5	12.1	15.9	17.9	19.9	15.4
	MAXIMUM	70.0	53.7	57.0	46.9	36.2	31.9	32.5	35.8	53.1	51.5	45.7	45.7	70.0
	DAY-HR	29-13	12-08	03-16	15-15	17-15	05-06	07-02	25-09	25-04	27-21	24-16	18-01	JAN
	# OBS	742	660	719	718	743	719	736	736	715	725	694	741	8648
2000	MEAN	21.1	17.5	14.3	12.8	12.5	10.4	9.5	9.9	10.8	14.5	15.5	20.1	14.1
	MAXIMUM	61.2	51.9	46.1	39.7	41.4	36.7	34.6	30.1	41.2	47.6	51.7	56.0	61.2
	DAY-HR	17-00	03-13	17-16	27-05	03-03	11-21	27-12	18-09	14-15	20-07	29-06	16-17	JAN
	# OBS	723	693	738	699	729	715	739	744	718	735	716	741	8690
2001	MEAN	19.3	16.9	-	14.5	13.2	9.1	10.0	11.4	10.2	16.9	19.0	25.4	15.1
	MAXIMUM	52.3	49.2	-	47.0	43.5	26.6	21.2	37.1	32.1	50.0	62.0	62.4	62.4
	DAY-HR	07-03	17-12	-	30-16	16-05	09-20	16-20	21-14	30-20	23-07	15-09	14-09	DEC
	# OBS	743	626	-	596	736	715	740	672	714	741	720	743	7746
POR	MEAN	20.9	19.5	17.5	13.7	12.1	10.4	10.2	9.9	11.1	15.8	19.3	22.2	15.1
	MAXIMUM	70.0	57.7	67.7	56.2	47.4	41.8	34.6	37.1	53.1	58.9	70.0	72.7	72.7
	YEAR	1999	1994	1994	1996	1998	1994	2000	2001	1999	1997	1995	1996	DEC/1996
	# OBS	5805	4616	4839	5583	5750	5453	5974	5922	5313	5798	5658	5921	66632

STATION: TTIW1 -- POR (1/1998 - 12/2001)

2 - HIGHEST 5-SECOND AVERAGE DURING PAST HOUR -- MONTHLY & ANNUAL BY YEAR

ELEMENT: HOURLY PEAK WIND GUST (KNOTS)

YEAR	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1998	MEAN	30.1	25.7	17.9	13.4	12.4	13.0	12.9	10.4	11.0	18.8	24.8	24.6	17.5
	MAXIMUM	56.8	65.5	63.0	52.5	48.0	32.5	36.7	23.7	31.9	44.5	68.4	54.2	68.4
	DAY-HR	26-05	19-05	24-02	18-20	02-07	15-23	15-02	23-21	18-01	14-06	24-06	13-05	NOV
	MINIMUM	8.4	3.7	2.3	2.1	2.1	2.7	2.5	1.9	1.4	2.5	3.5	3.9	1.4
	DAY-HR	27-04	27-10	06-06	27-04	16-07	29-06	25-18	19-12	05-15	16-02	08-17	30-11	SEP
	# OBS	265	665	709	691	525	435	730	785	707	740	738	737	7727
1999	MEAN	21.0	30.7	26.0	17.4	15.3	12.6	12.1	11.5	14.5	18.7	21.9	24.0	18.7
	MAXIMUM	69.8	71.9	77.0	49.6	41.8	37.5	32.9	37.7	57.0	53.3	53.8	52.1	77.0
	DAY-HR	29-13	12-08	03-16	15-16	17-18	05-07	07-02	25-09	25-05	27-13	30-03	12-15	MAR
	MINIMUM	3.3	3.7	3.5	2.5	2.9	0.0	0.0	0.0	1.2	0.0	3.5	3.5	0.0
	DAY-HR	17-02	14-18	20-21	27-13	10-08	09-15	08-11	12-17	11-03	15-12	13-01	08-02	OCT
	# OBS	766	660	719	716	743	719	736	736	716	736	694	741	8682
2000	MEAN	25.6	21.1	17.9	15.8	15.1	12.7	11.4	11.9	13.4	17.5	18.8	23.9	17.1
	MAXIMUM	62.4	53.3	48.8	42.4	45.5	42.6	34.6	31.5	43.0	59.1	53.1	62.0	62.4
	DAY-HR	17-00	22-13	17-17	27-06	03-04	11-21	27-12	18-10	14-15	18-01	29-06	16-15	JAN
	MINIMUM	4.3	2.9	1.9	2.3	0.8	1.9	2.1	2.1	2.1	0.0	2.5	2.9	0.0
	DAY-HR	05-20	15-01	26-07	10-13	23-18	05-15	29-02	30-07	27-00	09-23	06-10	03-04	OCT
	# OBS	723	693	738	699	729	714	730	743	717	736	714	739	8675
2001	MEAN	23.1	20.0	-	17.5	16.0	11.4	12.0	13.9	12.7	20.2	23.2	29.9	18.2
	MAXIMUM	59.7	53.8	-	51.9	46.1	31.3	22.7	40.2	36.0	60.1	68.6	64.7	68.6
	DAY-HR	07-06	17-15	-	30-17	16-05	27-23	16-21	22-08	01-08	22-21	15-10	14-09	NOV
	MINIMUM	3.1	0.0	-	1.6	0.2	2.1	2.3	1.6	2.1	2.3	3.7	3.1	0.0
	DAY-HR	14-15	27-07	-	08-06	03-12	14-15	22-07	01-05	08-09	21-07	02-20	11-03	FEB
	# OBS	743	638	-	577	727	715	739	672	710	741	720	743	7725
POR	MEAN	23.9	24.4	20.6	16.0	14.9	12.4	12.1	11.9	12.9	18.8	22.2	25.6	17.9
	MAXIMUM	69.8	71.9	77.0	52.5	48.0	42.6	36.7	40.2	57.0	60.1	68.6	64.7	77.0

YEAR	1999	1999	1999	1998	1998	2000	1998	2001	1999	2001	2001	2001	MAR/1999
MINIMUM	3.1	0.0	1.9	1.6	0.2	0.0	0.0	0.0	1.2	0.0	2.5	2.9	0.0
YEAR	2001	2001	2000	2001	2001	1999	1999	1999	1999	2000	2000	2000	FEB/2001
# OBS	2497	2656	2166	2683	2724	2583	2935	2936	2850	2953	2866	2960	32809

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: JAN

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.2	-	*	*	*	-	*	-	-	*	*	-	-	0.3	18
1 - 3		0.1	0.2	0.6	0.5	0.3	0.4	0.3	0.3	0.1	0.2	0.1	0.2	3.4	195
4 - 6		0.1	0.3	1.4	1.6	0.7	1.2	1.0	0.4	0.5	0.4	0.2	0.3	8.3	481
7 - 10		0.1	0.2	2.2	2.9	1.4	3.0	1.6	0.9	0.8	0.8	0.3	0.1	14.1	820
11 - 15		-	0.1	2.7	4.7	1.3	5.2	2.1	1.4	1.3	1.3	0.5	*	20.5	1191
16 - 20		-	0.1	2.0	6.0	0.6	3.2	2.0	1.7	1.2	1.3	0.6	-	18.6	1078
21 - 24		-	0.1	1.5	5.3	0.1	0.7	1.3	1.1	0.7	0.6	0.3	*	11.8	687
25 - 33		-	0.1	0.8	8.4	-	0.9	2.4	1.9	0.8	0.5	0.3	*	16.1	932
34 - 47		-	-	0.1	4.0	-	0.2	1.2	0.9	*	0.1	-	-	6.5	376
> 48		-	-	0.1	0.1	-	-	0.3	0.1	-	-	-	-	0.5	27
TOTAL %	0.2	0.4	1.0	11.4	33.5	4.4	14.7	12.2	8.5	5.4	5.1	2.4	0.7	100.0	
TOTAL N	11	22	57	663	1944	257	854	711	494	316	297	138	41		5805

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: FEB

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.3	-	-	-	*	*	*	0.1	-	-	-	-	*	0.5	24
1 - 3		0.3	0.4	0.7	1.0	0.5	0.4	0.5	0.3	0.2	0.3	0.3	0.3	5.2	242
4 - 6		0.2	0.4	2.6	2.1	0.5	0.8	1.0	0.4	0.6	0.3	0.4	0.2	9.6	441
7 - 10		0.1	0.4	3.8	3.4	1.3	2.2	1.2	0.8	1.0	0.8	0.4	*	15.3	706
11 - 15		*	0.1	3.5	5.9	2.0	4.2	1.4	1.1	1.2	0.6	0.6	0.1	21.0	969
16 - 20		-	0.1	2.6	6.5	1.1	3.3	0.9	1.2	1.1	1.1	0.5	-	18.3	845
21 - 24		-	*	1.4	4.2	0.4	1.3	1.0	0.8	0.6	0.7	0.3	-	10.7	495
25 - 33		-	0.1	0.5	5.5	*	1.1	2.7	1.9	1.0	0.5	0.3	-	13.7	631
34 - 47		-	-	0.5	2.5	-	0.3	1.4	0.5	0.3	0.2	-	-	5.7	261
> 48		-	-	-	-	-	-	*	*	-	-	-	-	0.1	3
TOTAL %	0.3	0.7	1.5	15.6	31.1	5.9	13.7	10.2	7.1	6.1	4.4	2.8	0.6	100.0	
TOTAL N	16	32	69	719	1438	271	632	472	326	282	201	130	29		4617

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: MAR

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.2	*	-	0.1	-	*	*	0.1	*	-	*	*	-	0.6	30
1 - 3		0.3	0.3	1.1	1.0	0.6	0.4	0.4	0.4	0.4	0.4	0.3	0.3	5.7	277
4 - 6		0.2	0.4	2.5	2.0	0.6	1.4	1.1	0.6	0.8	0.9	0.7	0.3	11.6	561
7 - 10		0.1	0.4	3.1	3.2	1.0	2.8	1.5	1.5	1.6	1.7	0.7	0.3	17.8	860
11 - 15		*	0.3	3.5	3.8	1.5	4.4	2.0	1.7	1.5	2.1	1.0	0.1	21.8	1054
16 - 20		-	-	3.3	4.5	0.6	2.9	1.8	1.7	1.5	1.8	0.9	0.1	19.2	928
21 - 24		-	-	1.5	2.9	0.2	1.1	1.2	1.3	0.9	1.2	0.5	-	10.7	518
25 - 33		-	-	1.1	2.3	*	0.9	1.9	1.2	0.8	0.7	0.3	-	9.2	444
34 - 47		-	-	0.1	0.5	-	0.1	1.6	0.6	0.4	0.1	-	-	3.3	160
> 48		-	-	-	-	-	-	*	*	*	*	-	-	0.1	7
TOTAL %	0.2	0.7	1.4	16.3	20.2	4.5	14.1	11.5	9.0	7.8	8.9	4.4	1.0	100.0	
TOTAL N	12	33	68	787	976	218	681	557	437	379	429	212	50		4839

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: APR

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.7	*	*	*	*	-	-	0.1	0.1	-	*	*	*	1.0	57
1 - 3		0.6	0.8	1.0	0.9	0.6	0.6	0.8	0.9	0.6	0.6	0.4	0.5	8.5	474
4 - 6		0.5	0.9	2.5	1.6	0.8	1.3	1.9	1.9	2.0	1.8	0.9	0.5	16.7	933
7 - 10		0.2	0.3	3.7	2.0	1.1	2.5	2.5	2.8	3.2	2.5	1.6	0.4	22.6	1264
11 - 15		*	0.2	2.9	2.7	0.9	4.4	2.8	2.7	2.5	3.3	1.3	0.2	23.9	1337

16 - 20	*	0.1	1.5	2.5	0.3	1.8	2.2	2.0	1.2	2.5	0.9	-	15.1	844
21 - 24	-	*	0.6	1.7	*	0.3	1.3	1.1	0.4	1.0	0.4	*	6.9	383
25 - 33	-	-	0.2	1.5	-	0.2	1.2	0.4	0.3	0.4	0.3	*	4.7	262
34 - 47	-	-	-	0.1	-	-	0.3	0.1	*	*	*	-	0.5	29
> 48	-	-	-	-	-	-	*	-	-	-	-	-	0.0	1
TOTAL %	0.7	1.4	2.4	12.4	12.9	3.7	11.0	13.1	12.2	10.4	12.1	5.9	1.7	100.0
TOTAL N	41	78	135	695	721	207	616	731	681	578	674	332	95	5584

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: MAY

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.6	0.1	*	-	0.1	0.1	*	0.1	-	0.1	*	*	-	1.0	55
1 - 3		0.5	0.7	1.1	0.5	0.3	0.4	0.8	1.0	0.8	0.8	0.7	0.6	8.2	475
4 - 6		0.7	1.1	2.1	1.4	0.3	0.8	1.7	2.7	2.9	2.4	1.2	0.5	17.9	1030
7 - 10		0.5	1.2	2.7	1.2	0.4	2.2	2.7	5.4	6.5	5.1	1.5	0.2	29.4	1692
11 - 15		*	0.7	2.3	1.3	0.3	1.9	3.7	5.7	3.5	4.6	0.9	0.1	25.1	1444
16 - 20		-	0.1	1.2	1.2	0.1	1.1	2.4	1.8	0.9	2.0	0.5	*	11.3	650
21 - 24		-	-	0.6	0.7	-	0.2	1.0	0.8	0.3	0.6	0.1	-	4.3	246
25 - 33		-	-	0.5	0.6	-	0.1	0.7	0.3	0.2	0.3	*	-	2.8	162
34 - 47		-	-	-	-	-	-	0.1	*	-	-	-	-	0.1	4
> 48		-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
TOTAL %	0.6	1.7	3.8	10.5	7.1	1.5	6.5	13.0	17.8	15.2	15.9	5.0	1.5	100.0	
TOTAL N	33	96	220	606	409	85	376	750	1024	874	914	286	85	5758	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: JUN

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.7	*	0.1	*	*	*	*	*	*	-	*	*	0.1	1.0	57
1 - 3		0.6	0.8	1.0	0.9	0.3	0.4	0.8	1.6	1.1	1.0	0.6	0.8	9.9	540
4 - 6		0.3	0.6	2.4	1.8	0.3	1.2	3.0	4.1	4.8	3.5	1.0	0.6	23.7	1294
7 - 10		0.1	0.2	2.0	1.2	0.4	2.6	4.3	6.3	9.0	6.5	1.1	0.2	33.8	1842
11 - 15		-	*	1.4	1.0	0.2	2.0	4.3	4.4	2.7	4.0	0.8	*	21.0	1144
16 - 20		-	-	0.7	0.8	*	0.5	2.0	1.3	0.6	0.6	0.3	-	7.0	380
21 - 24		-	-	0.1	0.5	-	*	0.8	0.3	0.1	0.2	0.1	-	2.2	120
25 - 33		-	-	*	0.2	-	*	0.5	0.4	*	0.1	0.1	-	1.4	76
34 - 47		-	-	-	-	-	-	*	*	-	-	-	-	0.1	4
> 48		-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
TOTAL %	0.7	1.1	1.6	7.7	6.5	1.3	6.9	15.9	18.6	18.3	15.8	4.0	1.7	100.0	
TOTAL N	39	58	89	420	356	70	374	866	1014	998	862	219	92	5457	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: JUL

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.6	*	-	0.1	0.1	0.1	0.1	*	*	0.1	0.1	*	0.1	1.1	66
1 - 3		0.3	0.4	0.5	0.6	0.4	0.5	0.9	2.0	1.7	1.1	0.7	0.4	9.3	554
4 - 6		0.3	0.6	1.3	0.7	0.2	0.6	3.2	6.5	4.8	2.2	0.9	0.3	21.4	1279
7 - 10		0.2	0.2	1.1	0.5	0.2	1.4	9.1	12.6	7.5	2.9	0.5	0.2	36.4	2176
11 - 15		*	*	1.4	0.5	0.1	1.4	8.6	7.3	2.2	1.3	0.1	0.1	22.9	1370
16 - 20		-	-	0.9	0.3	-	0.4	3.5	1.7	0.2	0.1	*	-	7.1	426
21 - 24		-	-	0.2	0.1	-	0.2	0.9	0.1	-	-	-	-	1.5	88
25 - 33		-	-	-	-	-	*	0.3	0.1	-	-	-	-	0.4	21
34 - 47		-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
> 48		-	-	-	-	-	-	-	-	-	-	*	-	0.0	1
TOTAL %	0.6	0.7	1.2	5.4	2.6	0.9	4.5	26.5	30.3	16.4	7.6	2.2	1.1	100.0	
TOTAL N	36	44	72	320	158	53	269	1586	1811	982	457	130	63	5981	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: AUG

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.8	*	-	0.1	0.1	*	*	*	0.1	*	*	0.1	0.1	1.2	71

1 - 3	0.6	0.8	1.5	1.1	0.6	0.6	1.5	1.7	1.5	1.0	0.6	0.4	12.0	713
4 - 6	0.4	0.7	2.9	1.5	0.2	0.5	3.9	6.6	3.4	1.9	0.6	0.5	23.1	1368
7 - 10	0.1	0.2	2.9	1.1	0.2	1.5	11.1	9.9	4.1	1.6	0.5	0.3	33.5	1983
11 - 15	-	0.1	1.8	0.8	0.2	2.2	10.2	5.0	0.9	0.4	0.3	0.1	22.0	1305
16 - 20	-	*	1.0	0.5	-	0.5	2.9	0.7	0.3	0.1	0.1	-	6.0	358
21 - 24	-	-	0.2	0.2	-	0.2	0.9	0.1	*	-	-	0.1	1.6	96
25 - 33	-	-	0.1	0.1	-	-	0.3	-	-	-	-	-	0.5	32
34 - 47	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
> 48	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
TOTAL %	0.8	1.1	1.7	10.4	5.3	1.3	5.5	31.0	24.0	10.3	5.0	2.1	1.4	100.0
TOTAL N	49	64	103	617	315	78	328	1839	1421	610	296	122	84	5926

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: SEP

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.8	0.1	0.1	*	0.1	*	*	*	0.1	-	*	*	*	1.3	71
1 - 3	0.8	1.0	1.5	1.5	0.8	0.7	1.4	1.8	1.2	1.1	0.6	0.7	13.0	692	
4 - 6	0.4	1.1	4.3	1.7	0.5	0.9	3.5	3.9	2.1	1.0	0.6	0.3	20.1	1071	
7 - 10	0.2	0.4	4.9	2.1	0.2	1.8	8.2	6.6	3.1	1.3	0.5	0.2	29.5	1570	
11 - 15	-	0.1	4.8	2.1	0.4	1.9	5.9	2.9	1.0	1.4	0.5	0.1	20.9	1113	
16 - 20	-	*	3.1	2.3	0.1	0.7	1.7	0.7	0.1	0.4	0.1	-	9.1	482	
21 - 24	-	-	1.0	0.5	-	0.3	0.8	0.2	0.1	0.2	-	-	3.0	161	
25 - 33	-	-	0.8	0.5	-	0.1	0.5	0.3	0.2	0.2	-	-	2.6	137	
34 - 47	-	-	*	-	-	-	0.1	0.1	0.1	0.1	-	-	0.4	19	
> 48	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0	
TOTAL %	0.8	1.4	2.7	20.3	10.8	2.0	6.5	22.0	16.5	7.8	5.6	2.4	1.2	100.0	
TOTAL N	42	74	141	1079	575	104	348	1172	876	414	296	129	66	5316	

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: OCT

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.4	*	-	0.1	*	0.1	*	0.1	-	-	0.1	-	*	0.7	40
1 - 3	0.2	0.4	1.1	1.0	0.4	0.5	0.6	0.6	0.4	0.5	0.4	0.3	6.4	372	
4 - 6	0.3	0.5	3.3	1.8	0.8	1.0	1.4	1.2	0.9	0.6	0.6	0.2	12.7	734	
7 - 10	0.1	0.3	5.0	2.3	1.0	2.3	1.8	1.8	1.9	1.9	0.4	0.2	19.0	1100	
11 - 15	-	-	6.2	4.2	0.9	3.8	2.5	2.0	2.4	3.2	0.8	-	25.9	1504	
16 - 20	-	-	4.3	3.9	0.7	2.5	1.7	1.5	1.1	1.9	0.8	*	18.4	1067	
21 - 24	-	-	1.9	1.8	0.1	0.8	1.2	0.7	0.3	0.8	0.4	-	7.9	458	
25 - 33	-	-	1.1	1.6	-	0.7	1.6	0.8	0.4	0.5	0.4	-	7.1	409	
34 - 47	-	-	0.1	0.5	-	0.2	0.7	0.2	0.2	0.1	-	-	1.9	113	
> 48	-	-	-	-	-	-	-	*	*	-	-	-	0.0	2	
TOTAL %	0.4	0.7	1.3	23.0	17.0	3.9	11.9	11.5	8.8	7.6	9.5	3.8	0.7	100.0	
TOTAL N	21	39	77	1334	985	228	688	665	509	443	551	218	41	5799	

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: NOV

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.2	0.1	*	*	*	*	-	-	-	*	-	-	-	0.4	24
1 - 3	0.2	0.2	1.2	1.0	0.5	0.3	0.4	0.3	0.2	0.3	0.1	0.2	4.8	274	
4 - 6	0.2	0.1	2.3	2.3	0.5	1.2	0.7	0.4	0.5	0.6	0.4	0.2	9.5	538	
7 - 10	0.1	0.4	2.5	3.0	1.3	2.6	1.1	0.6	0.6	0.8	0.5	0.1	13.7	778	
11 - 15	-	0.3	2.4	5.4	1.7	6.8	1.6	1.1	1.3	1.5	0.9	0.1	23.2	1316	
16 - 20	-	0.1	2.7	5.3	0.6	4.6	1.7	1.4	1.2	1.1	0.5	-	19.1	1084	
21 - 24	-	-	1.8	3.4	0.2	1.4	1.1	1.1	0.5	0.7	0.5	0.1	10.6	603	
25 - 33	-	-	1.2	5.0	0.1	1.1	2.3	1.8	0.7	1.1	0.6	-	14.0	790	
34 - 47	-	-	*	1.4	-	0.2	1.4	0.8	0.1	0.2	0.2	-	4.3	246	
> 48	-	-	-	-	-	-	0.1	0.1	-	-	-	-	0.2	9	
TOTAL %	0.2	0.5	1.1	14.1	26.8	4.9	18.3	10.5	7.7	5.2	6.2	3.7	0.7	100.0	
TOTAL N	14	26	63	798	1516	280	1038	595	436	296	350	210	40	5662	

(\* < 0.05%)

STATION: TTIWL

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Month: DEC

WIND SPEED	CALM	WIND DIRECTION													TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34			
0	0.2	*	-	-	-	-	*	*	-	0.1	-	*	-	0.3	18	
1 - 3		0.1	0.1	0.5	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.2	0.1	2.9	174	
4 - 6		0.1	0.2	1.0	1.6	0.5	0.9	0.6	0.4	0.4	0.3	0.3	0.3	6.6	389	
7 - 10		0.1	0.2	1.6	3.2	1.0	2.2	1.0	0.6	0.6	0.8	0.5	0.4	12.0	713	
11 - 15		0.1	0.2	1.9	4.6	1.3	5.0	1.2	1.0	1.0	1.2	0.7	0.2	18.3	1083	
16 - 20		*	0.1	2.4	6.0	0.7	3.3	1.2	1.5	1.4	1.1	0.4	0.1	18.3	1082	
21 - 24		-	0.1	1.9	6.6	0.4	2.0	1.0	1.4	0.9	1.1	0.4	*	15.7	928	
25 - 33		-	0.1	1.5	8.2	0.1	1.3	1.9	1.9	1.2	1.7	0.4	*	18.3	1086	
34 - 47		-	-	0.4	3.3	-	0.2	1.2	0.9	0.3	0.7	0.2	-	7.2	425	
> 48		-	-	*	0.2	-	-	0.1	0.1	-	0.1	*	-	0.4	24	
TOTAL %	0.2	0.5	1.0	11.2	34.2	4.3	15.2	8.5	7.8	5.9	7.1	3.1	1.0	100.0		
TOTAL N	10	27	57	665	2025	252	902	506	463	347	423	184	61		5922	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

All Months: Annual

WIND SPEED	CALM	WIND DIRECTION													TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34			
0	0.5	*	*	*	*	*	*	*	*	*	*	*	*	0.8	531	
1 - 3		0.4	0.5	1.0	0.9	0.5	0.5	0.7	0.9	0.7	0.6	0.4	0.4	7.5	4982	
4 - 6		0.3	0.6	2.4	1.7	0.5	1.0	1.9	2.5	2.0	1.3	0.7	0.4	15.2	10119	
7 - 10		0.2	0.4	2.9	2.1	0.8	2.2	3.9	4.3	3.4	2.2	0.7	0.2	23.3	15504	
11 - 15		*	0.2	2.9	3.0	0.9	3.6	3.9	3.1	1.8	2.1	0.7	0.1	22.2	14830	
16 - 20		*	*	2.1	3.3	0.4	2.1	2.0	1.4	0.9	1.2	0.5	*	13.8	9224	
21 - 24		-	*	1.0	2.3	0.1	0.7	1.0	0.7	0.4	0.6	0.2	*	7.2	4783	
25 - 33		-	*	0.7	2.8	*	0.5	1.4	0.9	0.5	0.5	0.2	*	7.5	4982	
34 - 47		-	-	0.1	1.0	-	0.1	0.6	0.3	0.1	0.1	*	-	2.5	1637	
> 48		-	-	*	*	-	-	*	*	*	*	*	-	0.1	74	
TOTAL %	0.5	0.9	1.7	13.1	17.1	3.2	10.7	15.7	14.2	9.8	8.6	3.5	1.1	100.0		
TOTAL N	324	593	1151	8703	11418	2103	7106	10450	9492	6519	5750	2310	747		66666	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Months: DEC, JAN, FEB (Winter)

WIND SPEED	CALM	WIND DIRECTION													TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34			
0	0.2	*	*	*	*	*	*	*	*	*	*	*	*	0.4	60	
1 - 3		0.2	0.2	0.6	0.7	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	3.7	611	
4 - 6		0.2	0.3	1.6	1.8	0.6	1.0	0.9	0.4	0.5	0.3	0.3	0.3	8.0	1311	
7 - 10		0.1	0.2	2.4	3.1	1.2	2.5	1.3	0.7	0.7	0.8	0.4	0.2	13.7	2239	
11 - 15		*	0.1	2.6	5.0	1.5	4.8	1.6	1.2	1.2	1.1	0.6	0.1	19.8	3243	
16 - 20		*	0.1	2.3	6.2	0.8	3.3	1.4	1.5	1.3	1.2	0.5	*	18.4	3005	
21 - 24		-	0.1	1.6	5.5	0.3	1.3	1.1	1.1	0.8	0.8	0.3	*	12.9	2110	
25 - 33		-	0.1	1.0	7.5	*	1.1	2.3	1.9	1.0	0.9	0.4	*	16.2	2649	
34 - 47		-	-	0.3	3.3	-	0.2	1.2	0.8	0.2	0.3	0.1	-	6.5	1062	
> 48		-	-	*	0.1	-	-	0.1	*	-	*	*	-	0.3	54	
TOTAL %	0.2	0.5	1.1	12.5	33.1	4.8	14.6	10.3	7.8	5.8	5.6	2.8	0.8	100.0		
TOTAL N	37	81	183	2047	5407	780	2388	1689	1283	945	921	452	131		16344	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Months: MAR, APR, MAY (Spring)

WIND SPEED	CALM	WIND DIRECTION													TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34			
0	0.5	*	*	*	*	*	*	0.1	*	*	*	*	*	0.9	142	
1 - 3		0.5	0.6	1.1	0.8	0.5	0.4	0.7	0.8	0.6	0.6	0.5	0.5	7.6	1226	
4 - 6		0.5	0.8	2.4	1.7	0.6	1.1	1.6	1.8	2.0	1.7	1.0	0.5	15.6	2524	
7 - 10		0.3	0.6	3.1	2.0	0.8	2.5	2.3	3.3	3.9	3.2	1.3	0.3	23.6	3816	
11 - 15		*	0.4	2.9	2.5	0.9	3.5	2.8	3.5	2.6	3.4	1.1	0.1	23.7	3835	
16 - 20		*	0.1	1.9	2.7	0.3	1.9	2.2	1.9	1.2	2.1	0.8	*	15.0	2422	
21 - 24		-	*	0.9	1.7	0.1	0.5	1.2	1.0	0.5	0.9	0.3	*	7.1	1147	
25 - 33		-	-	0.6	1.4	*	0.4	1.2	0.6	0.4	0.5	0.2	*	5.4	868	
34 - 47		-	-	*	0.2	-	*	0.6	0.2	0.1	*	*	-	1.2	193	
> 48		-	-	-	-	-	-	*	*	*	*	-	-	0.0	8	
TOTAL %	0.5	1.3	2.6	12.9	13.0	3.2	10.3	12.6	13.2	11.3	12.5	5.1	1.4	100.0		
TOTAL N	86	207	423	2088	2106	510	1673	2038	2142	1831	2017	830	230		16181	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Months: JUN, JUL, AUG (Summer)

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N	
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34			
0	0.7	*	*	*	*	*	*	*	*	*	*	*	*	0.1	1.1	194
1 - 3		0.5	0.6	1.0	0.9	0.4	0.5	1.1	1.7	1.4	1.0	0.6	0.5	10.4	1807	
4 - 6		0.3	0.6	2.2	1.3	0.2	0.7	3.4	5.8	4.3	2.5	0.8	0.5	22.7	3941	
7 - 10		0.1	0.2	2.0	0.9	0.3	1.8	8.3	9.7	6.8	3.6	0.7	0.2	34.6	6001	
11 - 15		*	*	1.5	0.8	0.2	1.9	7.8	5.6	1.9	1.8	0.4	0.1	22.0	3819	
16 - 20		-	*	0.9	0.5	*	0.5	2.9	1.2	0.3	0.3	0.1	-	6.7	1164	
21 - 24		-	-	0.2	0.3	-	0.1	0.9	0.2	*	0.1	*	*	1.8	304	
25 - 33		-	-	0.1	0.1	-	*	0.4	0.1	*	*	*	-	0.7	129	
34 - 47		-	-	-	-	-	-	*	*	-	-	-	-	0.0	4	
> 48		-	-	-	-	-	-	-	-	-	-	*	-	0.0	1	
TOTAL %	0.7	1.0	1.5	7.8	4.8	1.2	5.6	24.7	24.5	14.9	9.3	2.7	1.4	100.0		
TOTAL N	124	166	264	1357	829	201	971	4291	4246	2590	1615	471	239		17364	

(\* < 0.05%)

STATION: TTIW1

3 - PERCENT FREQUENCY OF AVERAGE WIND SPEED(KNOTS) VS AVERAGE WIND DIRECTION(TENS OF DEGREES)

Months: SEP, OCT, NOV (Autumn)

WIND SPEED	CALM	WIND DIRECTION												TOT %	TOT N
		35-01	02-04	05-07	08-10	11-13	14-16	17-19	20-22	23-25	26-28	29-31	32-34		
0	0.5	*	*	*	*	0.1	*	*	*	*	*	*	*	0.8	135
1 - 3		0.4	0.5	1.2	1.2	0.6	0.5	0.8	0.9	0.6	0.6	0.4	0.4	8.0	1338
4 - 6		0.3	0.6	3.3	1.9	0.6	1.0	1.8	1.8	1.1	0.7	0.6	0.3	14.0	2343
7 - 10		0.1	0.4	4.1	2.5	0.8	2.3	3.6	2.9	1.8	1.3	0.5	0.1	20.6	3448
11 - 15		-	0.1	4.5	3.9	1.0	4.2	3.3	2.0	1.6	2.1	0.7	0.1	23.4	3933
16 - 20		-	*	3.4	3.9	0.4	2.7	1.7	1.2	0.8	1.2	0.5	*	15.7	2633
21 - 24		-	-	1.6	1.9	0.1	0.8	1.0	0.7	0.3	0.5	0.3	*	7.3	1222
25 - 33		-	-	1.0	2.4	*	0.7	1.5	1.0	0.4	0.6	0.3	-	8.0	1336
34 - 47		-	-	0.1	0.6	-	0.1	0.8	0.4	0.1	0.1	0.1	-	2.3	378
> 48		-	-	-	-	-	-	*	*	-	-	-	-	0.1	11
TOTAL %	0.5	0.8	1.7	19.1	18.3	3.6	12.4	14.5	10.9	6.9	7.1	3.3	0.9	100.0	
TOTAL N	77	139	281	3211	3076	612	2074	2432	1821	1153	1197	557	147		16777

(\* < 0.05%)

Summary complete: 09-Sep-2003 08:46:50