

Mill Seat Landfill Expansion

Facility ID No. 8-2648-00014

Town of Riga, New York

Draft Supplemental Environmental Impact Statement

Attachment F

Supporting Air Quality Analysis Data



2004

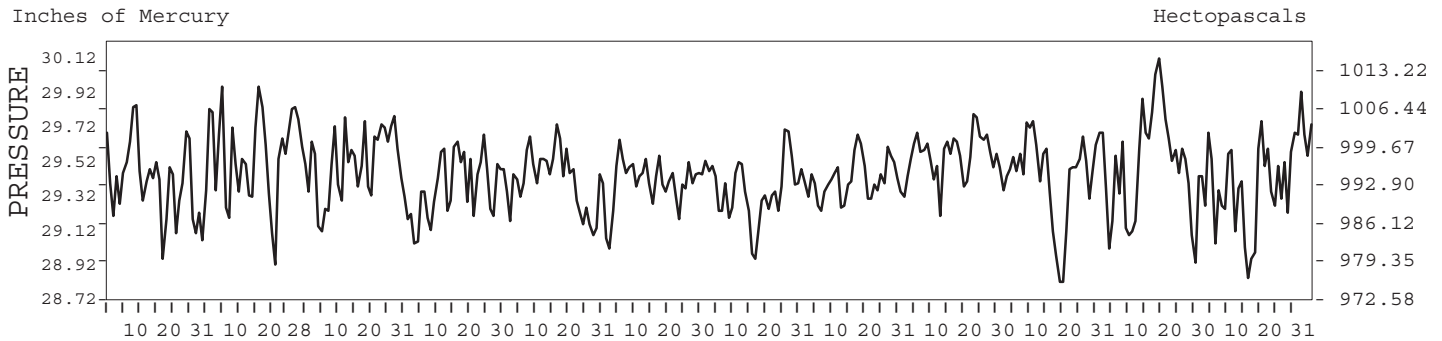
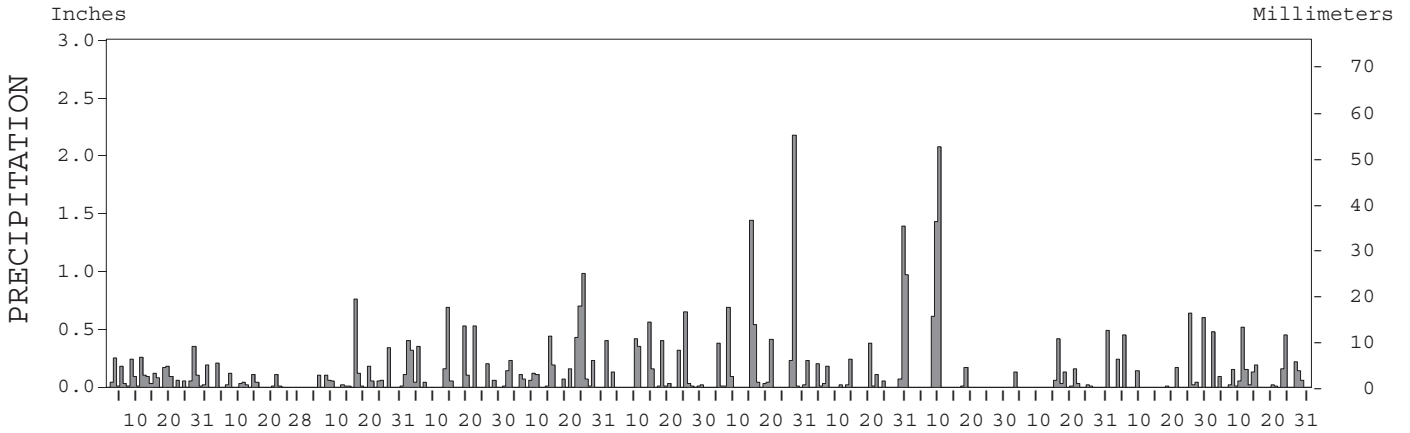
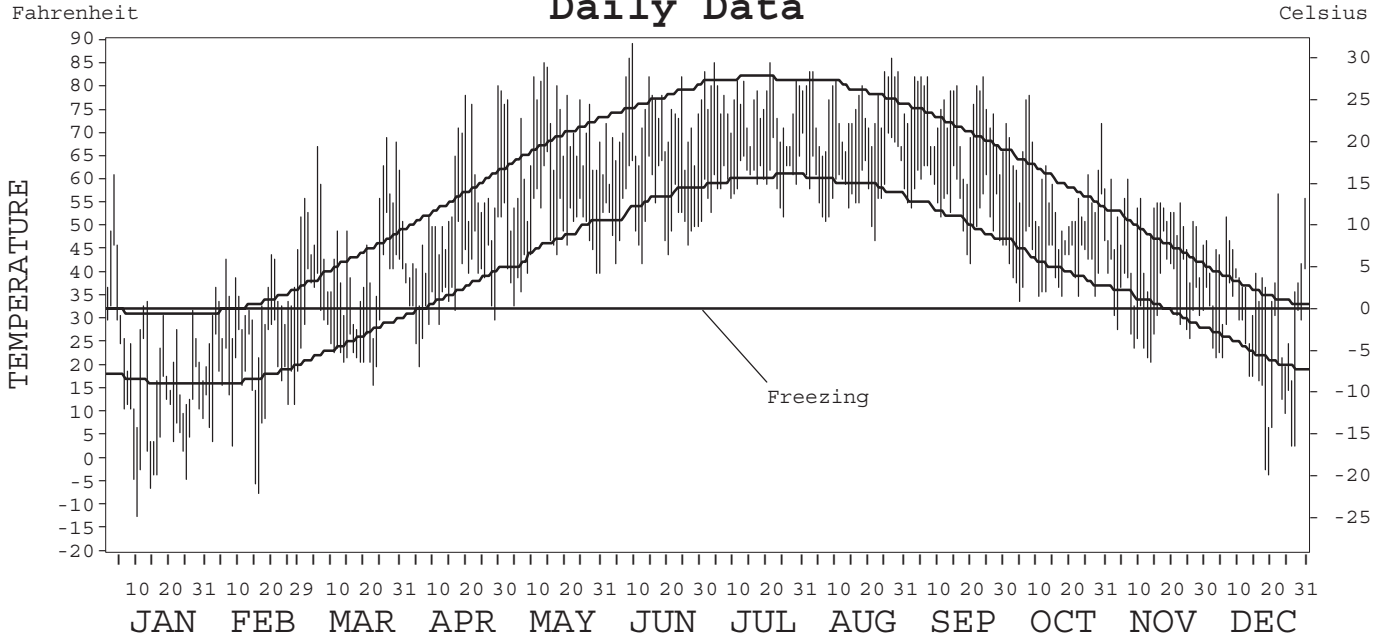
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3652

ROCHESTER,
NEW YORK (ROC)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2004

ROCHESTER, NY (ROC)

LATITUDE: 43° 07' 00" N LONGITUDE: 77° 40' 36" W ELEVATION (FT): GRND: 585 BARO: 588 TIME ZONE: EASTERN (UTC + 5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	23.7	33.5	46.5	54.3	69.1	72.5	76.2	75.0	73.5	58.5	49.0	36.6	55.7	
	HIGHEST DAILY MAXIMUM	61	52	69	80	85	89	85	86	82	78	60	57	89	
	DATE OF OCCURRENCE	03	29	26	29	13	09	21+	27	24+	08	07+	23	JUN 09	
	MEAN DAILY MINIMUM	10.7	16.4	30.6	37.2	48.3	52.8	60.4	58.7	54.8	41.8	33.2	21.9	38.9	
	LOWEST DAILY MINIMUM	-12	-7	16	20	33	42	52	47	42	34	21	-3	-12	
	DATE OF OCCURRENCE	10	16	22	05	04	12+	25	22	20	05	14	20	JAN 10	
	AVERAGE DRY BULB	17.2	25.0	38.6	45.8	58.7	62.7	68.3	66.9	64.2	50.2	41.1	29.3	47.3	
	MEAN WET BULB			34.9	41.6	54.5	58.2	64.4	62.7	59.7	47.5	38.6	27.5		
	MEAN DEW POINT			30.0	35.9	50.7	54.4	62.1	59.9	57.1	44.4	34.7	23.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	25	12	4	0	0	0	0	0	0	0	0	8	49	
MINIMUM ≤ 32°	29	29	20	7	0	0	0	0	0	0	17	25	127		
MINIMUM ≤ 0°	7	2	0	0	0	0	0	0	0	0	0	2	11		
H/C	HEATING DEGREE DAYS	1475	1153	811	574	220	120	10	33	74	453	708	1098	6729	
	COOLING DEGREE DAYS	0	0	0	2	33	56	119	99	57	0	0	0	366	
RH	MEAN (PERCENT)	78	73	75	71	77	76	82	80	81	81	79	79	78	
	HOUR 01 LST	83	76	79	78	87	90	92	91	92	89	84	83	85	
	HOUR 07 LST	82	79	81	77	85	85	89	91	91	89	86	83	85	
	HOUR 13 LST	69	64	64	63	67	63	71	67	64	70	68	73	67	
	HOUR 19 LST	80	70	75	69	73	65	75	74	79	79	79	77	75	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	0	1	0	0	0	0	1	
	THUNDERSTORMS	0	0	0	4	9	5	7	3	0	0	0	0	28	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.40	29.56	29.50	29.37	29.39	29.41	29.35	29.41	29.55	29.42	29.52	29.40	29.44	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02		30.11	29.98	29.99	30.00	29.94	30.01	30.15	30.02	30.13	30.02		
WINDS	RESULTANT SPEED (MPH)	7.6	6.0	4.2	2.7	3.3	4.1	2.0	3.0	1.4	3.1	4.1	4.9	3.6	
	RES. DIR. (TENS OF DEGS.)	26	25	24	30	26	25	20	24	25	21	25	24	25	
	MEAN SPEED (MPH)	12.7	10.2	10.5	10.5	8.5	7.7	7.0	6.9	7.2	8.6	9.0	10.7	9.1	
	PREVAIL. DIR. (TENS OF DEGS.)	26	25	26	28	21	22	22	22	22	22	23	20	22	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	37	40	39	37	33	28	22	26	32	36	48	48	
	DIR. (TENS OF DEGS.)	25	25	25	25	27	25	30	25	04	25	23	24	24	
	DATE OF OCCURRENCE	22	13	02	19	24	29	20	20	09	31+	28+	07	DEC 07	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	45	54	56	46	38	35	28	31	43	46	60	60	
DIR. (TENS OF DEGS.)	26	27	25	25	26	25	24	26	05	24	29	25	25		
DATE OF OCCURRENCE	22+	14+	02	19	24	29+	05	20	09+	30	05	07	DEC 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.81	0.72	2.04	3.48	4.53	3.11	6.35	3.68	4.30	1.49	2.31	2.99	37.81	
	GREATEST 24-HOUR (IN.)	0.40	0.21	0.87	0.80	1.59	0.77	2.41	1.99	3.07	0.49	0.65	0.61	3.07	
	DATE OF OCCURRENCE	27-28	03	16-17	12-13	23-24	09-10	26-27	29-30	08-09	30	24-25	22-23	SEP 08-09	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	26	11	17	14	19	15	16	14	5	11	9	19	176		
PRECIPITATION ≥ 0.10	11	4	7	9	13	8	8	7	4	5	6	11	93		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	2	1	2	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	61.3	10.3	16.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1.9	16.8	111.7	
	GREATEST 24-HOUR (IN.)	8.1	2.9	11.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.0	11.6	
	DATE OF OCCURRENCE	08	07	16	04							08	26	MAR 16	
	MAXIMUM SNOW DEPTH (IN.)	15	11	13	3	0	0	0	0	0	0	1	7	15	
	DATE OF OCCURRENCE	30+	01	17	05							09	27	JAN 30+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	18	4	2	1	0	0	0	0	0	0	1	6	32		

2005

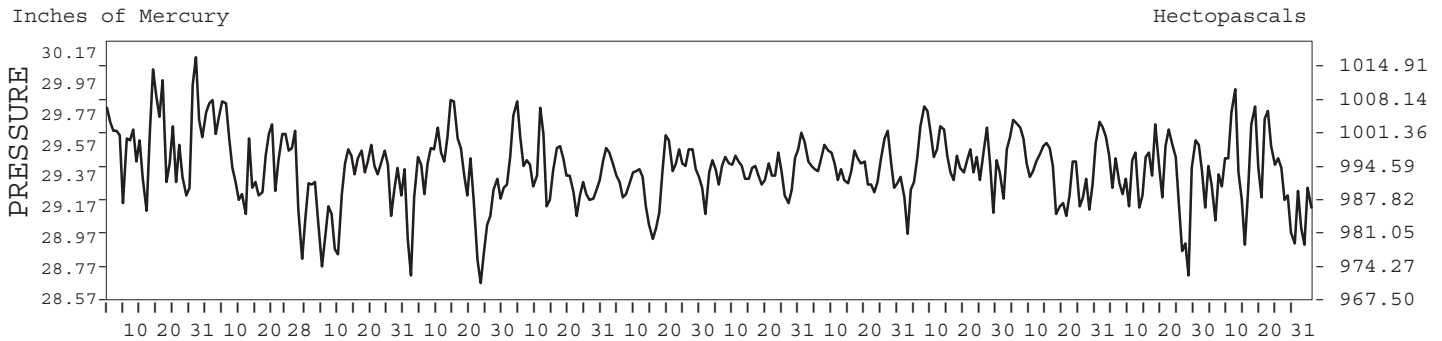
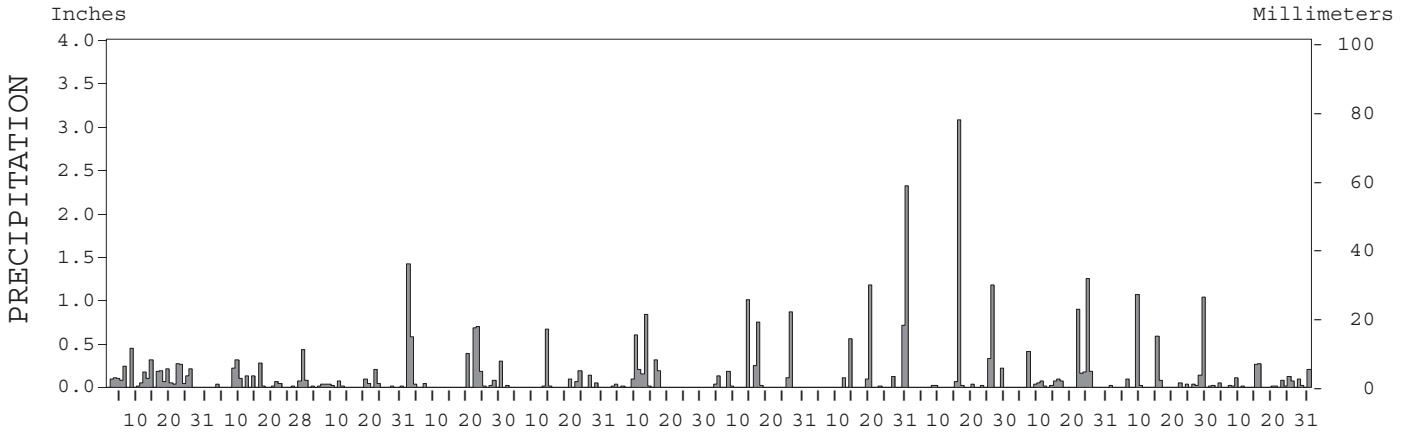
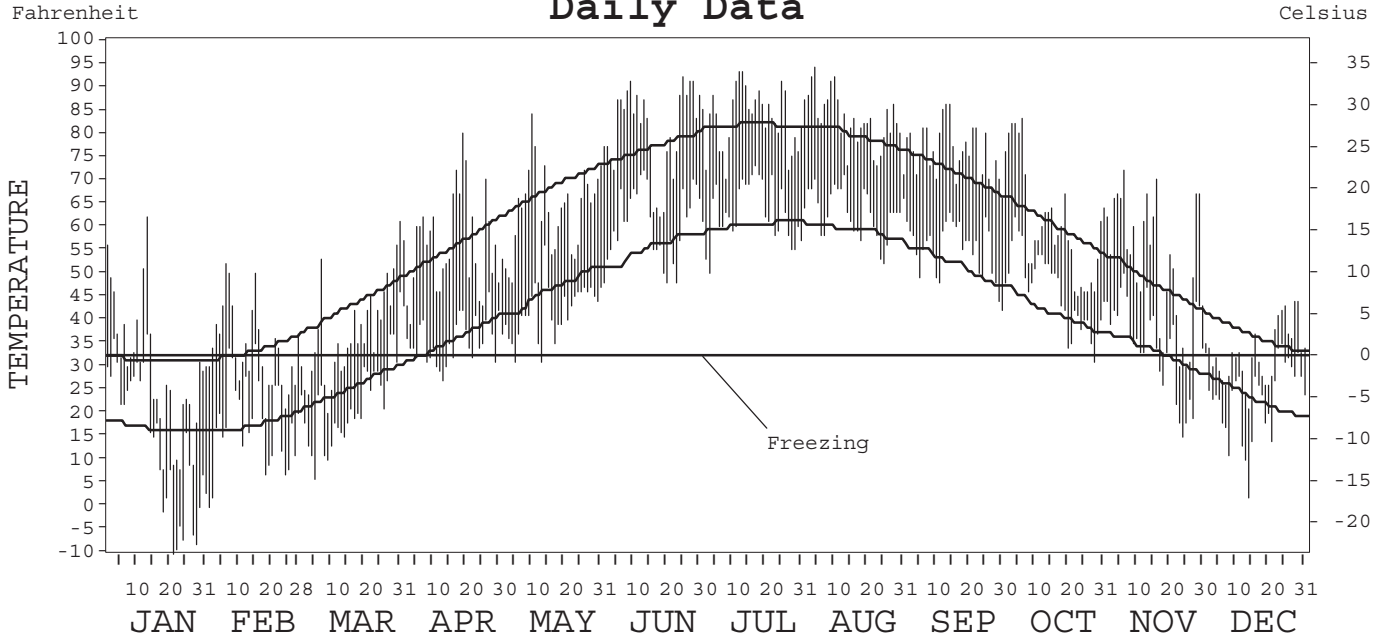
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3652

ROCHESTER,
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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2005

ROCHESTER, NY (ROC)

LATITUDE: 43° 07' 00" N LONGITUDE: 77° 40' 36" W ELEVATION (FT): GRND: 585 BARO: 588 TIME ZONE: EASTERN (UTC + 5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	29.4	33.8	37.3	56.3	62.7	80.5	83.0	82.6	75.9	60.5	52.6	32.7	57.3	
	HIGHEST DAILY MAXIMUM	62	52	61	80	84	92	93	94	86	83	72	44	94	
	DATE OF OCCURRENCE	13	06	31	19	10	25	13+	04	14+	06	06	29+	AUG 04	
	MEAN DAILY MINIMUM	13.9	17.8	22.1	35.7	41.7	60.5	62.9	62.9	55.0	46.2	34.7	23.4	39.7	
	LOWEST DAILY MINIMUM	-10	0	6	27	31	48	50	52	42	31	15	2	-10	
	DATE OF OCCURRENCE	21	01	05	13	13+	23+	03	25	30	28	24	14	JAN 21	
	AVERAGE DRY BULB	21.7	25.8	29.7	46.0	52.2	70.5	73.0	72.8	65.5	53.4	43.7	28.1	48.5	
	MEAN WET BULB	20.3	24.2	27.4	40.5	46.6	65.4	67.0	66.0	59.6	48.9		25.8		
	MEAN DEW POINT	16.3	19.9	22.7	32.7	39.6	62.3	63.5	61.9	55.3	45.2		20.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	4	5	4	0	0	0	0	0	13
MAXIMUM ≤ 32°	21	14	10	0	0	0	0	0	0	0	3	16	64		
MINIMUM ≤ 32°	29	26	28	10	2	0	0	0	0	1	8	27	131		
MINIMUM ≤ 0°	8	1	0	0	0	0	0	0	0	0	0	0	9		
H/C	HEATING DEGREE DAYS	1334	1091	1085	562	388	37	2	1	50	377	634	1138	6699	
	COOLING DEGREE DAYS	0	0	0	0	0	209	256	249	71	23	0	0	808	
RH	MEAN (PERCENT)	80	78	76	63	64	78	75	72	72	77	68	74	73	
	HOUR 01 LST	83	83	85	73	78	91	89	86	84	83	70	77	82	
	HOUR 07 LST	84	85	87	76	77	87	86	85	85	85	73	76	82	
	HOUR 13 LST	76	69	63	51	49	61	58	53	54	65	60	70	61	
	HOUR 19 LST	80	77	72	56	54	70	65	63	67	75	69	73	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	1	0	0	0	0	0	4	0	0	0	5	
	THUNDERSTORMS	0	0	0	1	3	6	9	2	3	1	2	0	27	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.61	29.51	29.28	29.33	29.41	29.36	29.41	29.41	29.49	29.44	29.35	29.36	29.41	
	MEAN SEA-LEVEL PRESS. (IN.)	30.24	30.13	29.89	29.93	30.01	29.95	29.99		30.08	30.04		29.98		
WINDS	RESULTANT SPEED (MPH)	1.9	3.4	3.9	1.5	2.2	3.0	2.7	2.2	4.0	2.2	7.5	6.1	3.0	
	RES. DIR. (TENS OF DEGS.)	29	25	27	31	32	26	24	23	24	30	23	24	25	
	MEAN SPEED (MPH)	9.4	8.2	9.8	9.8	8.5	7.6	7.4	7.3	7.6	9.0	11.5	9.7	8.8	
	PREVAIL. DIR. (TENS OF DEGS.)	26	26	25	24	24	21	22	22	22	21	26	25	21	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	38	30	35	33	33	32	43	32	33	35	39	32	43	
	DIR. (TENS OF DEGS.)	28	24	25	03	29	25	03	03	26	25	26	24	03	
	DATE OF OCCURRENCE	01	15+	06	02	01	06	14	31	29	19	14+	09+	JUL 14	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	52	36	44	43	38	40	64	44	45	44	51	40	64	
DIR. (TENS OF DEGS.)	25	24	25	04	29	26	01	03	27	25	23	24	01		
DATE OF OCCURRENCE	01	15	06	02+	01	06	14	31	29	19	06	09+	JUL 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.34	1.40	1.11	4.43	1.24	2.44	3.36	5.10	4.98	3.48	3.18	1.37	35.43	
	GREATEST 24-HOUR (IN.)	0.45	0.41	0.43	1.54	0.68	0.85	1.01	3.03	3.10	1.36	1.08	0.52	3.10	
	DATE OF OCCURRENCE	08	09-10	01	02-03	14-15	13-14	14	30-31	16-17	25-26	09-10	15-16	SEP 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	22	13	16	12	9	11	10	8	10	14	12	18	155	
PRECIPITATION ≥ 0.10	14	6	2	7	3	6	7	6	4	6	4	5	70		
PRECIPITATION ≥ 1.00	0	0	0	1	0	0	1	2	2	1	2	0	9		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	49.7	27.8	17.4	T	0.0	0.0	0.0	0.0	0.0	T	7.8	19.0	121.7	
	GREATEST 24-HOUR (IN.)	8.3	3.4	7.7	T	0.0	0.0	0.0	0.0	0.0	T	2.6	3.8	8.3	
	DATE OF OCCURRENCE	23	16	01	04+						28	23	16	JAN 23	
	MAXIMUM SNOW DEPTH (IN.)	16	9	13	0	0	0	0	0	0	0	5	3	16	
	DATE OF OCCURRENCE	27+	03+	02								24+	21+	JAN 27+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	11	11	5	0	0	0	0	0	0	0	4	9	40		

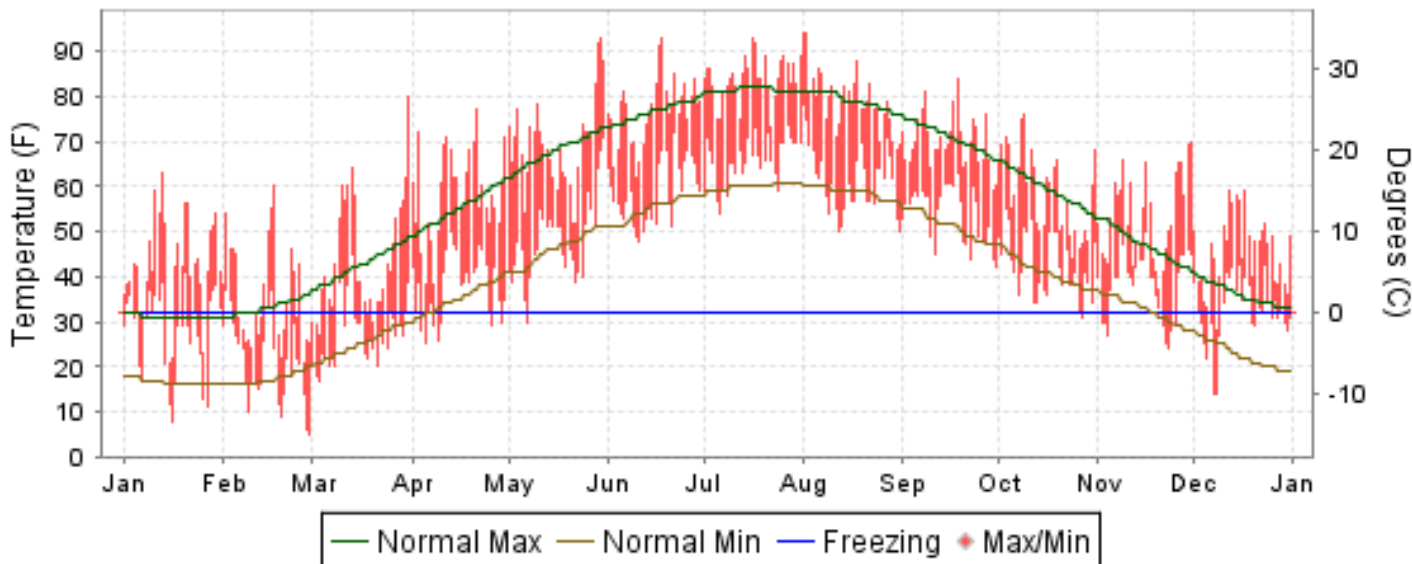


2006 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

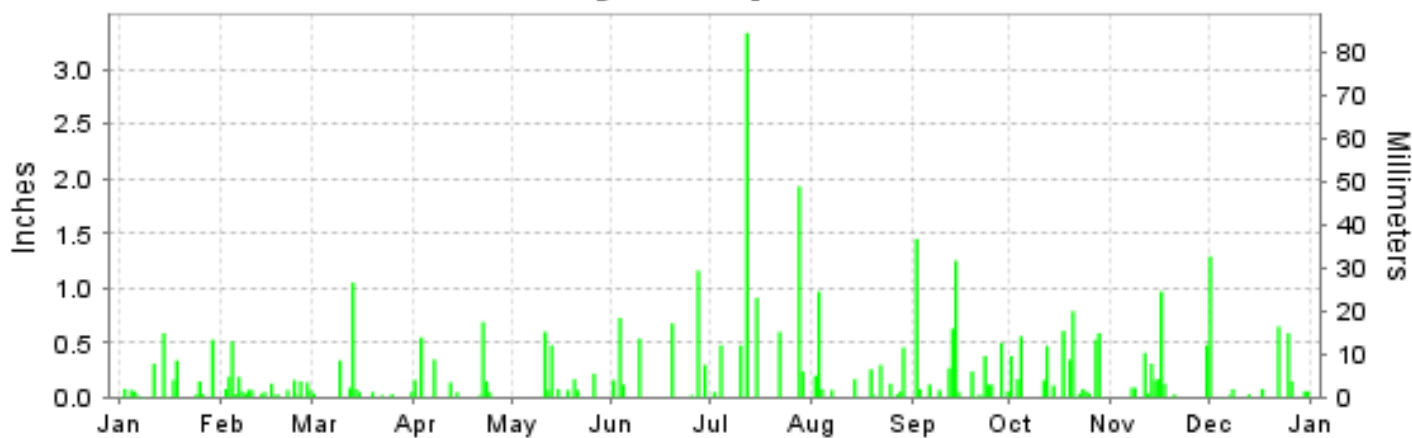
ISSN 0198-3652

ROCHESTER, NEW YORK (KROC)

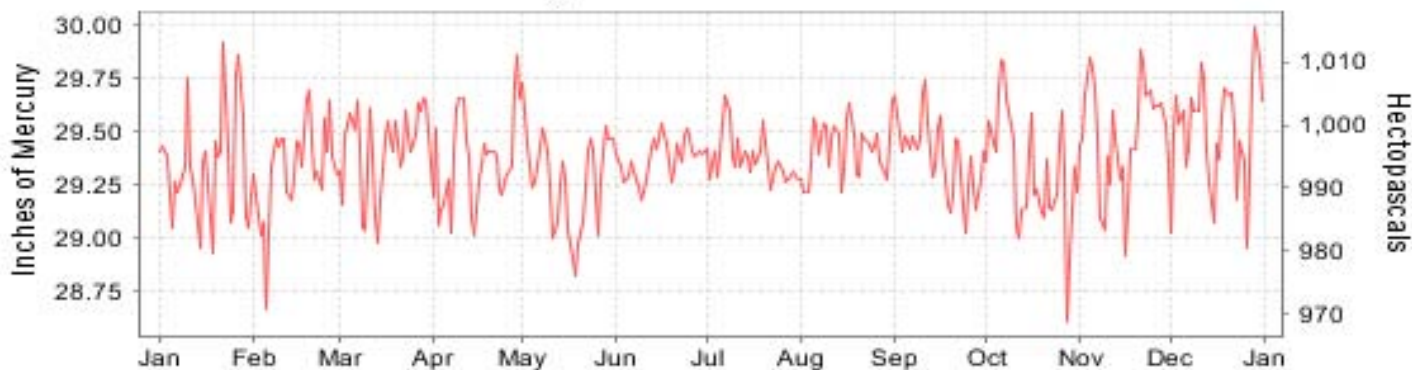
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2006

ROCHESTER (KROC)

LATITUDE: 43 ° 7 'N LONGITUDE: -77 ° 40'W ELEVATION (FT): GRND: 538 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.9	35.7	44.5	58.5	69.5	76.9	84.0	79.2	70.0	58.7	53.5	45.6	59.9	
	HIGHEST DAILY MAXIMUM	63	60	80	77	93	93	93	94	84	76	70	59	94	
	DATE OF OCCURRENCE	13	17	31	21	30	18	16	02+	18	09	30	17+	AUG 02+	
	MEAN DAILY MINIMUM	28.0	21.1	27.5	37.5	48.2	58.7	65.9	61.4	54.1	42.5	38.2	32.3	43.0	
	LOWEST DAILY MINIMUM	8	5	17	25	30	48	54	50	42	31	24	14	5	
	DATE OF OCCURRENCE	16	28	03	05	07	11	06	31+	30	27	23	08+	FEB 28	
	AVERAGE DRY BULB	35.5	28.4	36.0	48.0	58.9	67.8	75.0	70.3	62.1	50.6	45.9	39.0	51.5	
	MEAN WET BULB	32.4	25.3	31.5	42.2	52.3	60.7	67.6	63.6	58.1	46.8	41.8	34.9	46.4	
	MEAN DEW POINT	27.3	19.0	23.5	34.1	45.7	55.4	63.5	59.0	55.2	42.5	37.1	28.2	40.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	2	2	2	0	0	0	0	0	6
	MAXIMUM <= 32°	5	15	5	0	0	0	0	0	0	0	0	1	26	
MINIMUM <= 32°	20	24	26	10	1	0	0	0	0	2	8	17	108		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	908	1019	892	502	229	35	0	14	109	440	566	798	5512	
	COOLING DEGREE DAYS	0	0	0	0	47	130	318	184	29	0	0	0	708	
RH	MEAN (PERCENT)	73	69	62	61	64	67	69	69	80	76	75	67	69	
	HOUR 01 LST	76	71	71	75	77	80	81	81	88	85	80	68	78	
	HOUR 07 LST	77	75	68	66	68	70	74	73	86	81	80	71	74	
	HOUR 13 LST	67	61	51	50	51	53	54	53	68	63	61	60	58	
	HOUR 19 LST	75	71	61	56	61	64	65	68	82	81	79	67	69	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	4	0	1	2	1	2	0	2	1	2	0	16	
	THUNDERSTORMS	0	0	1	2	2	6	8	5	2	0	0	1	27	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.32	29.32	29.41	29.36	29.25	29.36	29.38	29.41	29.39	29.32	29.49	29.50	29.38	
	MEAN SEA-LEVEL PRESS. (IN.)	29.93	29.95	30.03	29.97	29.84	29.96	29.96	30.01	29.98	29.93	30.10	30.12	29.98	
WINDS	RESULTANT SPEED (MPH)	4.7	7.5	6.8	2.5	2.5	3.1	5.0	2.0	2.8	5.3	3.1	7.6	4.2	
	RES. DIR. (TENS OF DEGS.)	24	25	28	27	25	28	24	26	22	24	24	24	26	
	MEAN SPEED (MPH)	10.3	12.0	10.4	9.4	8.5	8.2	8.1	7.5	8.0	9.7	7.3	11.7	9.3	
	PREVAIL.DIR.(TENS OF DEGS.)	24	25	29	25	21	24	21	22	21	26	20	24	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	55	41	31	33	26	30	30	33	38	26	41	55	
	DIR. (TENS OF DEGS.)	24	25	24	23	29	26	23	23	25	28	23	23	25	
	DATE OF OCCURRENCE	18	17	14	12	21	27	02	22	24	29	30	01	FEB 17	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	47	77	54	38	43	33	37	38	40	51	36	52	77	
DIR. (TENS OF DEGS.)	24	25	23	26	27	26	23	23	25	26	26	23	25		
DATE OF OCCURRENCE	18	17	14	04	21	27	02	22	24	29	09	01	FEB 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.42	2.13	1.80	2.18	1.77	3.72	8.02	2.75	5.39	4.96	2.89	3.03	41.06	
	GREATEST 24-HOUR (IN.)	0.59	0.52	1.05	0.71	0.67	1.16	3.33	1.05	1.53	1.10	1.08	1.29	3.33	
	DATE OF OCCURRENCE	14	04-05	13	21-22	11-12	27	12	03-04	02-03	19-20	15-16	01	JUL 12	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	17	21	10	11	9	9	8	12	17	17	12	12	155		
PRECIPITATION 0.10	6	7	2	6	4	7	7	7	10	11	7	4	78		
PRECIPITATION 1.00	0	0	1	0	0	1	2	0	2	0	0	1	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	14.0	28.8	4.2	0.1	T	T	T	0.0	0.0	0.4	0.5	4.3	52.3	
	GREATEST 24-HOUR (IN.)	4.8	3.8	1.0	0.1	T	T	T	0.0	0.0	0.3	0.5	2.0	4.8	
	DATE OF OCCURRENCE	25	25	01	04	22+	29	04			13	20	08	JAN 25	
	MAXIMUM SNOW DEPTH (IN.)	2	5	2	0	0	0	0	0	0	T	T	1	5	
	DATE OF OCCURRENCE	27+	27	02+							13	20	09+	FEB 27	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	14	1	0	0	0	0	0	0	0	0	2	21		

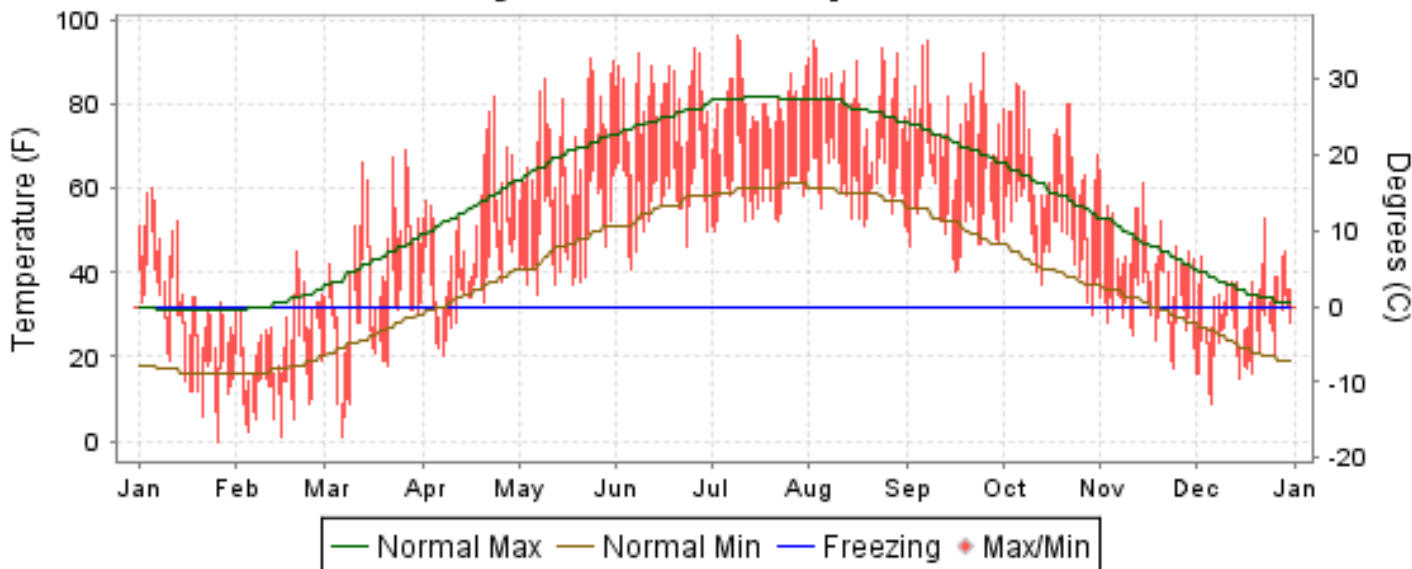


2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

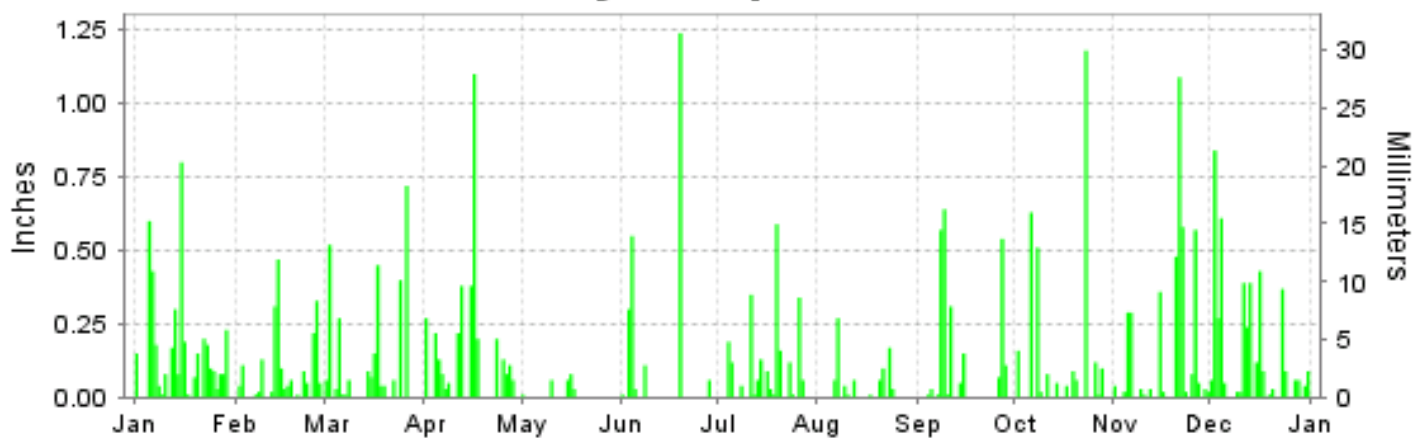
ISSN 0198-3652

ROCHESTER, NEW YORK (KROC)

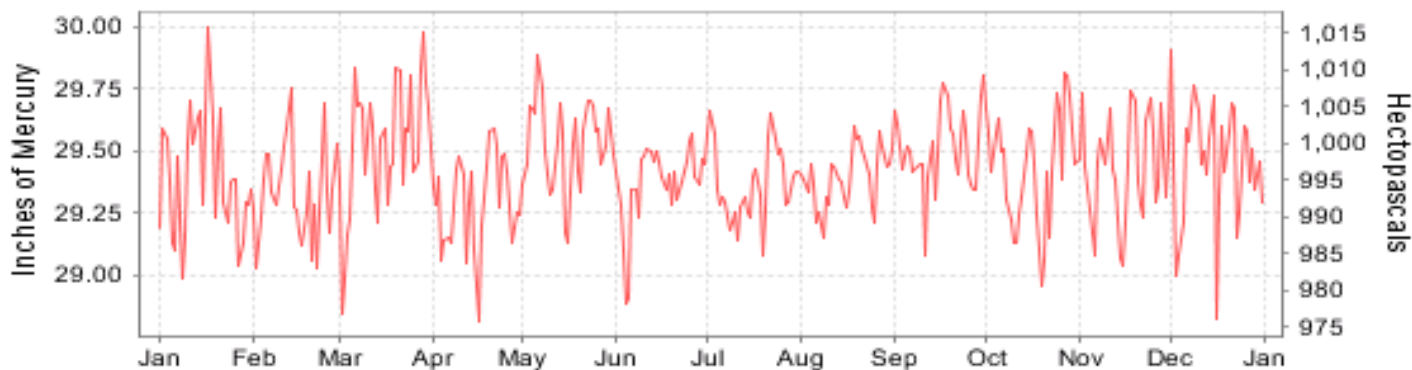
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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Thomas R. Karl
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METEOROLOGICAL DATA FOR 2007

ROCHESTER (KROC)

LATITUDE: 43 ° 7 'N LONGITUDE: -77 ° 40'W ELEVATION (FT): GRND: 538 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	36.5	26.6	43.6	52.3	71.5	81.4	80.5	82.2	76.0	67.4	46.1	35.0	58.3	
	HIGHEST DAILY MAXIMUM	60	45	69	82	91	93	96	95	95	85	64	53	96	
	DATE OF OCCURRENCE	05	20	26	23	24	26	09	02	07	05	01	23	JUL 09	
	MEAN DAILY MINIMUM	23.5	14.0	27.0	36.8	47.6	57.7	58.8	61.2	53.3	48.5	31.0	23.5	40.2	
	LOWEST DAILY MINIMUM	0	1	1	20	35	41	50	51	40	30	17	9	0	
	DATE OF OCCURRENCE	26	15	06	07	07	06	02	31+	16	29	24	06	JAN 26	
	AVERAGE DRY BULB	30.0	20.3	35.3	44.6	59.6	69.6	69.7	71.7	64.7	58.0	38.6	29.3	49.3	
	MEAN WET BULB	27.5	18.2	31.1	39.3	50.9	60.7	62.2	63.5	57.8	52.8	35.3	27.4	43.9	
	MEAN DEW POINT	22.0	11.1	22.9	32.6	41.7	54.1	57.4	58.4	52.7	48.5	29.8	22.4	37.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	3	2	7	3	0	0	0	0	17
MAXIMUM <= 32°	14	21	7	2	0	0	0	0	0	0	1	8	53		
MINIMUM <= 32°	22	27	22	8	0	0	0	0	0	1	16	29	125		
MINIMUM <= 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1077	1246	913	608	229	33	10	12	85	242	785	1102	6342	
	COOLING DEGREE DAYS	0	0	0	2	67	174	163	227	84	33	0	0	750	
RH	MEAN (PERCENT)	72	68	63	66	54	60	68	67	69	74	72	74	67	
	HOUR 01 LST	75	70	69	76	69	76	85	80	84	83	77	76	77	
	HOUR 07 LST	77	73	66	68	57	64	72	73	76	79	80	77	72	
	HOUR 13 LST	66	60	55	56	38	44	51	50	50	59	61	68	55	
	HOUR 19 LST	72	70	62	65	50	56	64	66	67	74	69	74	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	4	2	0	0	0	1	0	0	3	2	6	21	
	THUNDERSTORMS	0	1	2	2	2	5	9	5	3	3	0	0	32	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.39	29.34	29.57	29.29	29.54	29.36	29.36	29.39	29.50	29.56	29.42	29.46	29.43	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	29.97	30.19	29.90	30.13	29.96	29.96	29.98	30.10	30.17	30.03	30.07	30.04	
WINDS	RESULTANT SPEED (MPH)	5.7	8.8	3.4	5.0	1.7	3.4	3.4	2.8	3.3	3.7	4.4	3.9	3.9	
	RES. DIR. (TENS OF DEGS.)	24	26	26	27	30	27	25	25	24	22	24	23	26	
	MEAN SPEED (MPH)	9.8	13.1	11.3	11.8	7.6	7.9	7.0	7.8	7.2	7.7	9.4	10.0	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	25	25	20	25	21	22	22	21	22	21	26	25	25	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	35	35	37	36	44	26	31	36	31	41	36	44	
	DIR. (TENS OF DEGS.)	26	26	29	25	25	25	24	25	25	23	26	25	25	
	DATE OF OCCURRENCE	06	05	05	04	15	19	26	17	11	20	30	23	JUN 19	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	46	43	48	47	41	51	31	39	55	38	52	44	55	
DIR. (TENS OF DEGS.)	26	25	29	25	25	25	24	25	25	29	26	24	25		
DATE OF OCCURRENCE	06	07	05	04	15	19	26	17	11	27	30	24	SEP 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.25	2.09	2.98	3.64	0.24	2.30	2.31	0.81	2.50	3.05	4.01	4.28	32.46	
	GREATEST 24-HOUR (IN.)	0.83	0.78	0.72	1.17	0.09	1.24	0.75	0.27	0.65	1.18	1.63	0.90	1.63	
	DATE OF OCCURRENCE	14-15	13-14	26	16-17	15-16	19	19-20	07	09-10	23	21-22	02-03	NOV 21-22	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	23	18	16	16	5	7	16	10	12	13	18	21	175	
PRECIPITATION 0.10	13	7	6	11	0	4	8	3	6	6	7	9	80		
PRECIPITATION 1.00	0	0	0	1	0	1	0	0	0	1	1	0	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	29.8	46.5	19.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	41.8	145.5	
	GREATEST 24-HOUR (IN.)	4.6	17.8	8.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.4	17.8	
	DATE OF OCCURRENCE	16	14	17	16+							22	04	FEB 14	
	MAXIMUM SNOW DEPTH (IN.)	10	11	6	2	0	0	0	0	0	0	1	9	11	
	DATE OF OCCURRENCE	30	15	18+	08							23	17	FEB 15	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	11	11	4	2	0	0	0	0	0	0	0	10	38		

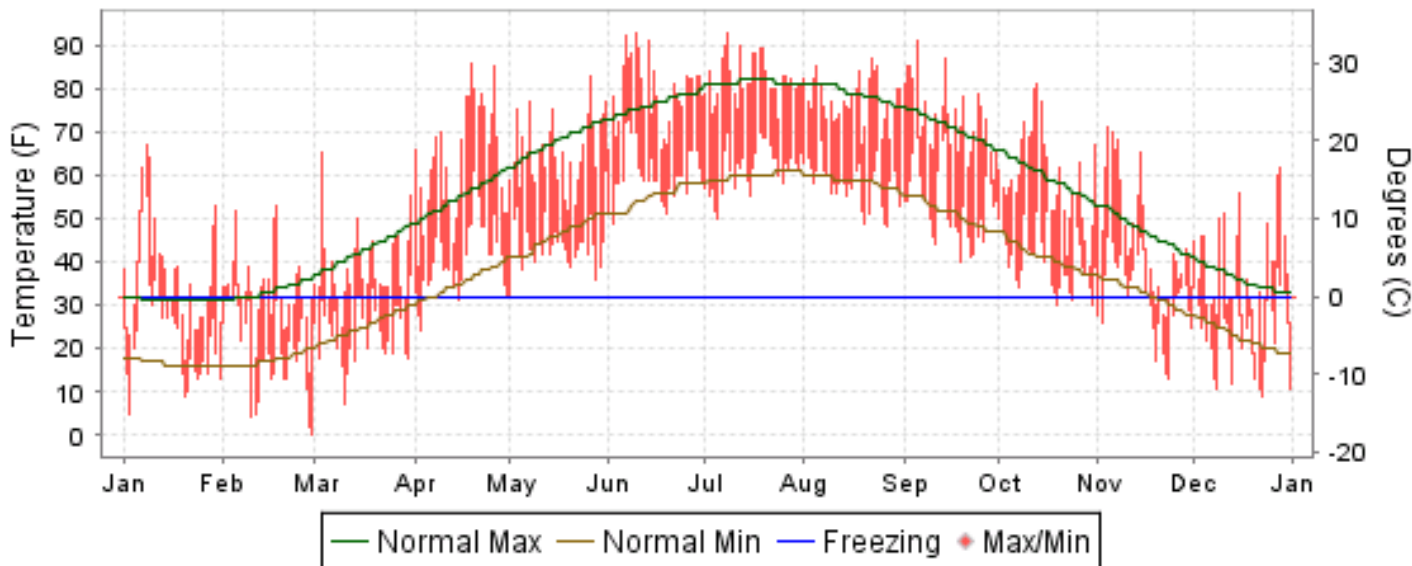


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

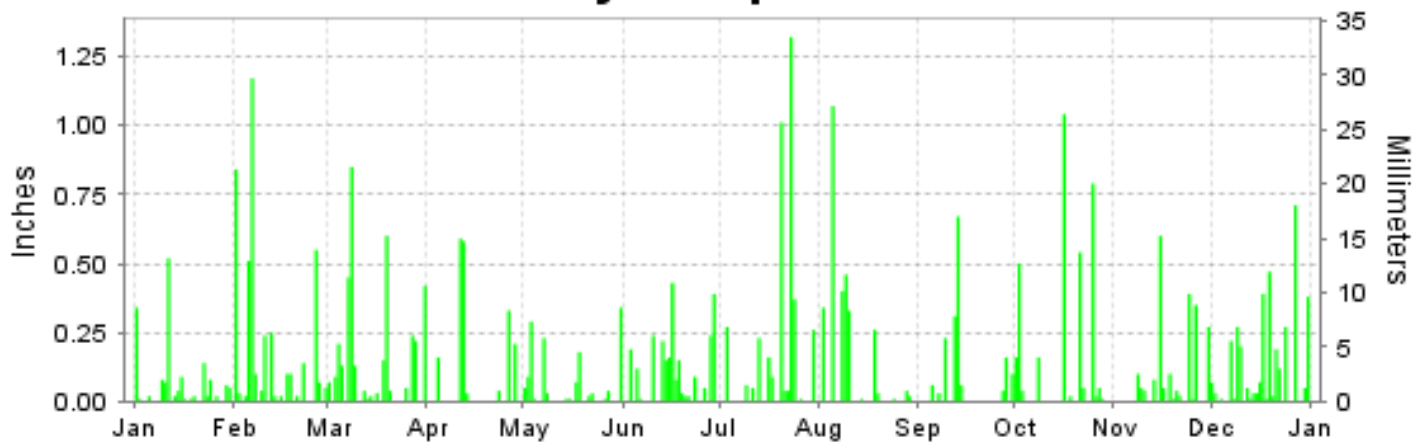
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ROCHESTER, NEW YORK (KROC)

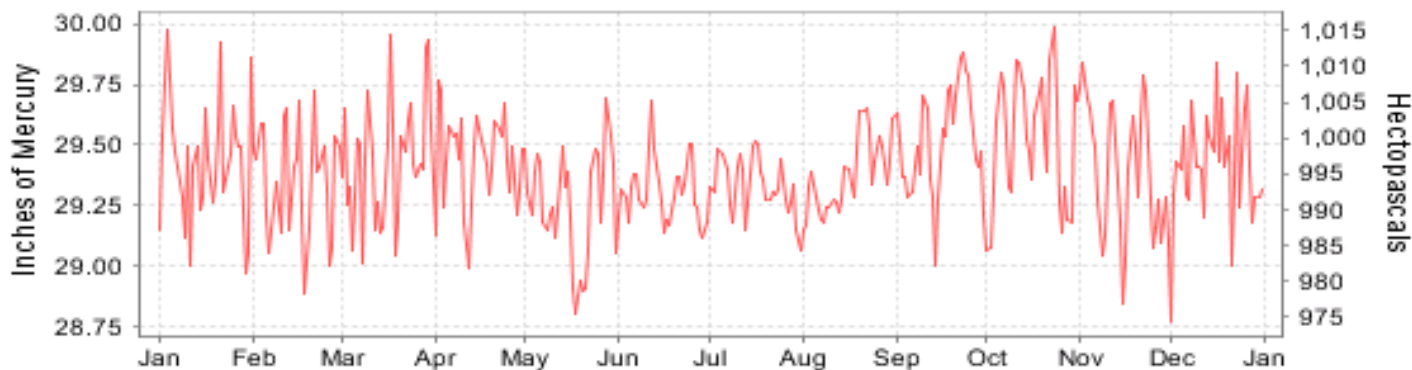
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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METEOROLOGICAL DATA FOR 2008

ROCHESTER (KROC)

LATITUDE: 43 ° 7 'N LONGITUDE: -77 ° 40'W ELEVATION (FT): GRND: 538 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.1	33.5	39.1	63.9	65.6	79.4	82.4	77.3	73.2	59.4	46.3	37.9	57.9	
	HIGHEST DAILY MAXIMUM	67	53	65	86	83	93	93	87	91	81	71	62	93	
	DATE OF OCCURRENCE	08	18	03	19	26	09	08	22	05	13	04	28	JUL 08	
	MEAN DAILY MINIMUM	23.8	19.2	23.9	40.6	43.9	60.2	61.6	57.9	53.0	39.9	32.3	23.2	40.0	
	LOWEST DAILY MINIMUM	5	0	7	24	32	49	50	48	40	30	13	9	0	
	DATE OF OCCURRENCE	03	29	10	03	01	02	05	27	19	30+	23	22	FEB 29	
	AVERAGE DRY BULB	30.5	26.4	31.5	52.3	54.8	69.8	72.0	67.6	63.1	49.7	39.3	30.6	49.0	
	MEAN WET BULB	27.5	23.9	28.8	44.1	48.1	62.4	64.5	61.1	57.6	44.4	35.9	27.7	43.8	
	MEAN DEW POINT	21.1	18.2	21.8	34.5	40.4	57.7	59.8	56.6	53.6	38.9	30.6	20.9	37.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	3	3	0	1	0	0	0	0	7
MAXIMUM <= 32°	14	13	4	0	0	0	0	0	0	0	4	14	49		
MINIMUM <= 32°	26	28	29	4	1	0	0	0	0	3	14	27	132		
MINIMUM <= 0°	0	1	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1065	1113	1030	386	317	23	1	21	115	471	761	1060	6363	
	COOLING DEGREE DAYS	0	0	0	13	6	175	226	113	66	2	0	0	601	
RH	MEAN (PERCENT)	68	72	67	55	60	68	68	71	73	69	72	67	68	
	HOUR 01 LST	71	74	75	66	74	81	83	85	85	80	76	70	77	
	HOUR 07 LST	73	78	72	60	62	69	72	77	80	78	78	71	73	
	HOUR 13 LST	62	65	56	42	47	53	53	52	58	51	60	61	55	
	HOUR 19 LST	68	72	65	50	56	68	64	70	74	72	72	65	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	3	2	3	0	0	1	1	1	1	1	3	20	
	THUNDERSTORMS	1	1	0	4	2	12	9	9	1	0	0	0	39	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.44	29.36	29.44	29.44	29.26	29.31	29.33	29.37	29.51	29.53	29.39	29.42	29.40	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	29.98	30.07	30.05	29.85	29.89	29.92	29.96	30.11	30.14	30.00	30.04	30.01	
WINDS	RESULTANT SPEED (MPH)	7.5	5.8	4.0	2.0	4.3	6.1	4.6	3.5	1.7	4.2	4.0	6.6	4.4	
	RES. DIR. (TENS OF DEGS.)	23	24	27	23	25	24	24	26	24	26	23	24	25	
	MEAN SPEED (MPH)	11.1	11.3	10.2	9.3	8.9	8.8	7.3	7.1	6.6	8.0	7.6	11.5	9.0	
	PREVAIL.DIR.(TENS OF DEGS.)	25	25	29	20	24	22	21	22	22	23	25	20	25	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	60	36	35	45	30	30	26	26	48	30	33	47	60	
	DIR. (TENS OF DEGS.)	23	24	03	24	24	25	34	23	23	30	23	26	23	
	DATE OF OCCURRENCE	09	09	08	01	26	10	24	18	14	28	15	28	JAN 09	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	75	45	41	55	38	39	41	31	58	40	41	63	75	
DIR. (TENS OF DEGS.)	25	24	25	24	24	25	31	30	23	29	24	27	25		
DATE OF OCCURRENCE	09	19	09	01	26	13	24	18	14	28	15	28	JAN 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.60	4.27	3.75	1.94	1.41	2.59	3.91	2.97	1.66	3.38	2.11	3.61	33.20	
	GREATEST 24-HOUR (IN.)	0.57	1.17	0.85	1.10	0.36	0.59	1.35	1.07	0.73	1.04	0.62	0.71	1.35	
	DATE OF OCCURRENCE	10-11	06	08	11-12	02-03	15-16	22-23	05	13-14	16	15-16	27	JUL 22-23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	18	18	18	7	15	17	13	11	9	12	14	22	174	
PRECIPITATION 0.10	3	10	10	5	4	10	7	6	5	6	6	10	82		
PRECIPITATION 1.00	0	1	0	0	0	0	2	1	0	1	0	0	5		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	15.2	23.7	23.6	T	0.0	0.0	0.0	0.0	0.0	0.1	11.0	46.2	119.8	
	GREATEST 24-HOUR (IN.)	3.4	6.6	7.6	T	0.0	0.0	0.0	0.0	0.0	0.1	2.4	11.7	11.7	
	DATE OF OCCURRENCE	01	26	08	26+						29	18	31	DEC 31	
	MAXIMUM SNOW DEPTH (IN.)	3	6	12	0	0	0	0	0	0	T	2	13	13	
	DATE OF OCCURRENCE	02	27	09							29	22+	21	DEC 21	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	4	8	6	0	0	0	0	0	0	0	6	10	34		

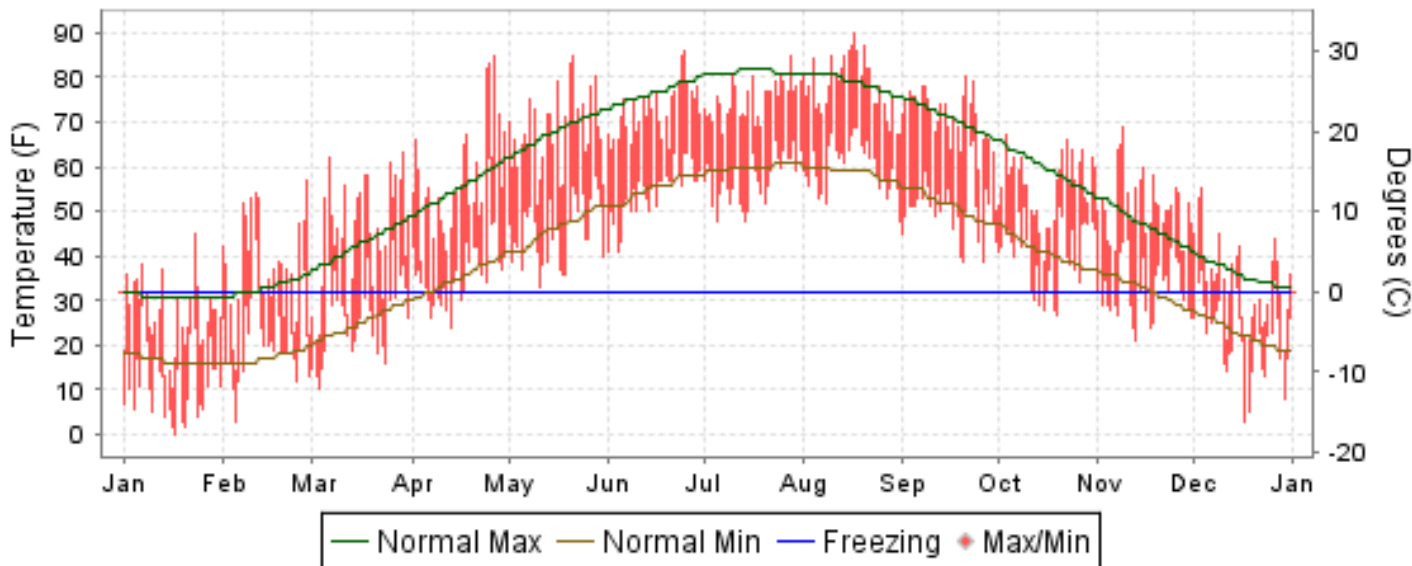


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

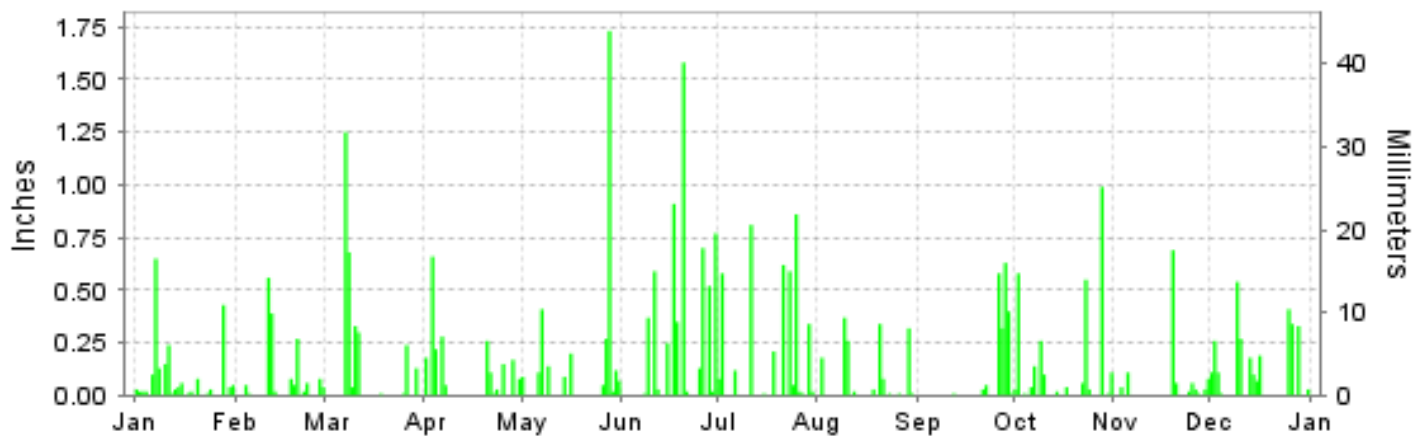
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ROCHESTER, NEW YORK (KROC)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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METEOROLOGICAL DATA FOR 2009

ROCHESTER (KROC)

LATITUDE: 43 ° 7 'N LONGITUDE: -77 ° 40'W ELEVATION (FT): GRND: 538 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	26.7	37.1	45.3	56.8	67.8	72.7	75.1	78.4	70.9	55.9	51.3	34.0	56.0	
	HIGHEST DAILY MAXIMUM	45	57	63	85	85	86	85	90	80	67	69	55	90	
	DATE OF OCCURRENCE	23	27	29	27	21	25	28	17	21	03	09	03	AUG 17	
	MEAN DAILY MINIMUM	11.5	20.9	26.3	36.4	45.7	54.2	57.3	60.2	50.5	40.5	32.5	21.7	38.1	
	LOWEST DAILY MINIMUM	0	3	10	24	33	41	48	48	39	27	21	3	0	
	DATE OF OCCURRENCE	17	05	03	13	11	04+	14+	31	26+	19	13	17	JAN 17	
	AVERAGE DRY BULB	19.1	29.0	35.8	46.6	56.8	63.5	66.2	69.3	60.7	48.2	41.9	27.9	47.1	
	MEAN WET BULB	17.5	26.0	31.4	40.8	50.1	57.8	61.4	64.0	56.2	44.8	39.4	26.1	43.0	
	MEAN DEW POINT	11.3	18.8	23.0	32.8	42.5	54.0	58.0	61.0	53.0	41.1	35.6	21.3	37.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	MAXIMUM <= 32°	24	3	5	1	0	0	0	0	0	0	0	11	44	
MINIMUM <= 32°	31	25	24	9	0	0	0	0	0	7	18	27	141		
MINIMUM <= 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1414	1001	896	556	259	81	32	22	139	514	686	1141	6741	
	COOLING DEGREE DAYS	0	0	0	10	12	44	78	162	19	0	0	0	325	
RH	MEAN (PERCENT)	69	66	62	62	62	75	77	78	79	78	78	76	72	
	HOUR 01 LST	72	69	71	72	78	89	91	92	92	86	86	79	81	
	HOUR 07 LST	76	71	71	66	65	78	80	85	87	84	87	79	77	
	HOUR 13 LST	61	58	51	50	45	61	62	59	60	64	62	69	59	
	HOUR 19 LST	69	66	61	59	55	70	74	77	81	81	78	79	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	0	3	0	0	0	2	2	1	1	2	4	18	
	THUNDERSTORMS	0	0	1	1	3	6	11	5	1	0	0	0	28	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.36	29.41	29.54	29.35	29.41	29.28	29.32	29.40	29.50	29.41	29.51	29.43	29.41	
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.04	30.16	29.95	30.01	29.87	29.91	30.00	30.10	30.01	30.12	30.05	30.02	
WINDS	RESULTANT SPEED (MPH)	6.5	6.3	2.2	2.9	4.1	1.3	4.1	3.5	1.0	2.7	2.1	4.7	3.4	
	RES. DIR. (TENS OF DEGS.)	24	25	28	26	25	31	25	24	26	24	25	25	26	
	MEAN SPEED (MPH)	9.9	10.3	8.7	11.1	8.8	6.2	6.9	6.2	6.2	7.8	5.8	9.6	8.1	
	PREVAIL.DIR.(TENS OF DEGS.)	25	26	25	26	22	22	21	22	23	26	27	26	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	36	41	40	44	29	31	35	37	37	29	37	44	
	DIR. (TENS OF DEGS.)	25	26	24	24	24	28	24	23	27	26	25	23	24	
	DATE OF OCCURRENCE	23	12	11	03	09	25	25	18	28	07	20	10	MAY 09	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	49	54	52	56	41	40	45	53	49	37	49	56	
DIR. (TENS OF DEGS.)	27	26	23	23	25	27	23	24	28	27	24	22	25		
DATE OF OCCURRENCE	23	12	11	03	09	25	25	18	28	07	20	10	MAY 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.17	1.63	2.99	2.20	3.30	6.25	4.32	1.63	2.03	2.97	1.13	2.95	33.57	
	GREATEST 24-HOUR (IN.)	0.75	0.82	1.34	0.66	1.93	1.60	0.88	0.58	0.98	0.99	0.75	0.62	1.93	
	DATE OF OCCURRENCE	06-07	11-12	07-08	03	27-28	20-21	25-26	09-10	28-29	28	19-20	25-26	MAY 27-28	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	21	12	9	12	12	14	14	11	8	15	10	14	152		
PRECIPITATION 0.10	6	2	6	8	7	10	8	5	4	7	2	9	74		
PRECIPITATION 1.00	0	0	1	0	1	1	0	0	0	0	0	0	3		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	29.3	13.9	1.4	1.8	0.0	0.0	0.0	0.0	T	T	T	25.3	71.7	
	GREATEST 24-HOUR (IN.)	7.5	5.3	0.5	1.0	0.0	0.0	0.0	0.0	T	T	T	6.2	7.5	
	DATE OF OCCURRENCE	28	20	12	07					28	16+	30+	16	JAN 28	
	MAXIMUM SNOW DEPTH (IN.)	10	9	T	1	0	0	0	0	0	0	0	5	10	
	DATE OF OCCURRENCE	11+	01	20+	07								17	JAN 11+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	9	5	0	1	0	0	0	0	0	0	0	6	21		

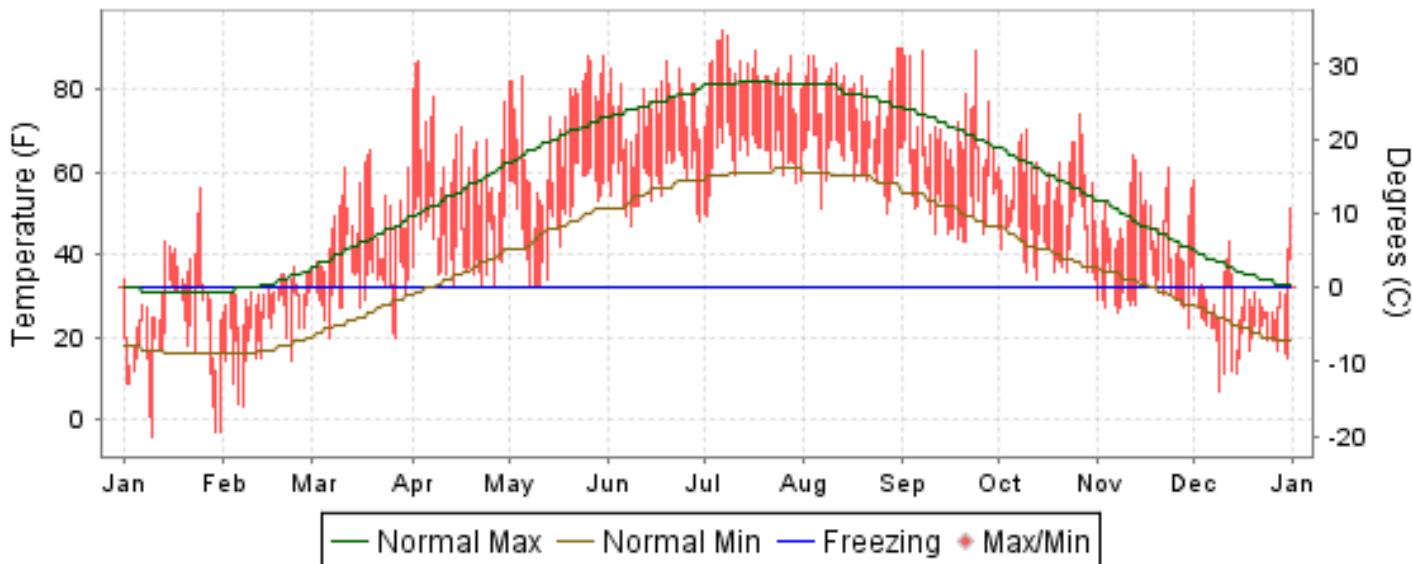


2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

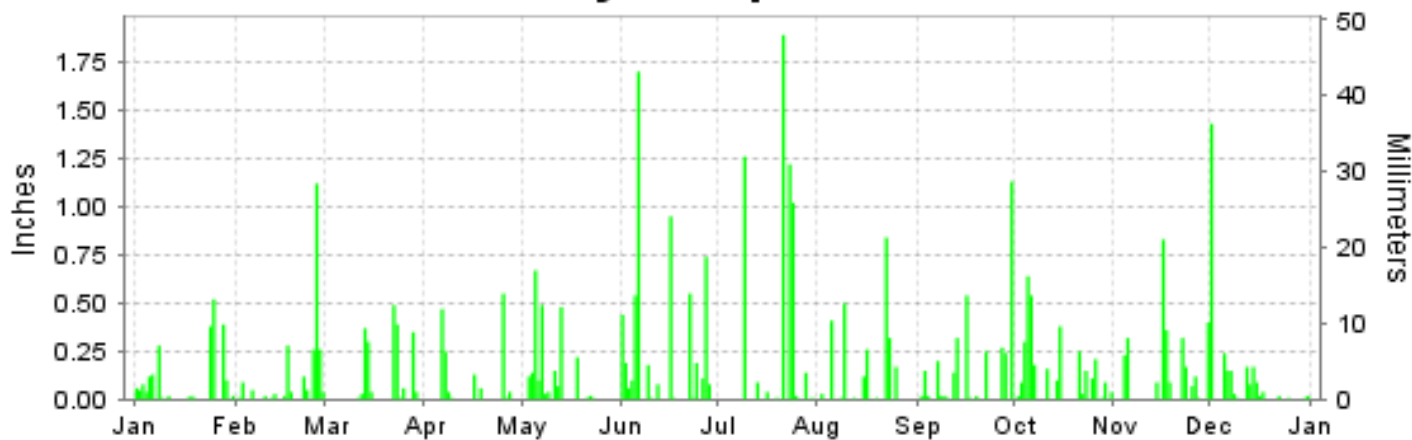
ISSN 0198-3652

ROCHESTER, NEW YORK (KROC)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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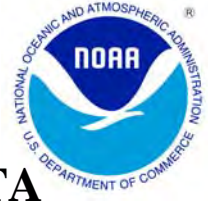
Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2010

ROCHESTER (KROC)

LATITUDE: 43 ° 7 'N LONGITUDE: -77 ° 40'W ELEVATION (FT): GRND: 538 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.3	30.5	47.9	63.6	71.5	76.0	83.7	80.1	71.1	58.8	48.4	31.1	57.8	
	HIGHEST DAILY MAXIMUM	56	37	65	87	88	87	94	90	90	74	64	58	94	
	DATE OF OCCURRENCE	25	23	19	03	31+	19	07	31+	01	26	12	01	JUL 07	
	MEAN DAILY MINIMUM	18.0	20.5	31.9	41.1	49.4	57.6	63.5	61.9	52.7	42.5	31.4	21.2	41.0	
	LOWEST DAILY MINIMUM	-4	3	20	32	32	47	49	50	43	34	22	7	-4	
	DATE OF OCCURRENCE	10	07	27+	14	10	08	02	27	21+	31+	29	09	JAN 10	
	AVERAGE DRY BULB	24.2	25.5	39.9	52.4	60.5	66.8	73.6	71.0	61.9	50.7	39.9	26.2	49.4	
	MEAN WET BULB	22.5	24.4	35.1	44.8	54.2	61.3	66.7	64.9	56.9	46.4	36.7	24.3	44.9	
	MEAN DEW POINT	18.7	20.4	27.8	35.7	48.4	57.3	62.6	61.5	53.1	41.5	32.1	20.0	39.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	4	2	1	0	0	0	7
	MAXIMUM <= 32°	17	19	0	0	0	0	0	0	0	0	0	23	59	
MINIMUM <= 32°	29	28	15	1	1	0	0	0	0	0	20	29	123		
MINIMUM <= 0°	3	0	0	0	0	0	0	0	0	0	0	0	3		
H/C	HEATING DEGREE DAYS	1259	1098	770	382	204	46	6	9	150	435	742	1198	6299	
	COOLING DEGREE DAYS	0	0	0	10	69	106	280	203	64	0	0	0	732	
RH	MEAN (PERCENT)	79	79	66	58	67	74	71	74	75	73	75	78	72	
	HOUR 01 LST	82	83	75	70	85	87	87	86	84	85	82	80	82	
	HOUR 07 LST	84	85	74	63	68	79	75	79	79	81	81	80	77	
	HOUR 13 LST	70	73	54	42	51	60	55	58	60	55	59	72	59	
	HOUR 19 LST	81	79	62	54	62	69	66	76	80	74	78	78	72	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	3	0	3	2	2	0	1	0	2	1	4	21	
	THUNDERSTORMS	0	0	0	2	5	6	7	3	3	0	1	0	27	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.39	29.25	29.36	29.33	29.40	29.30	29.37	29.38	29.35	29.31	29.47	29.32	29.35	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	29.87	29.97	29.93	30.00	29.90	29.96	29.97	29.95	29.92	30.08	29.93	29.96	
WINDS	RESULTANT SPEED (MPH)	6.5	6.1	2.5	4.4	2.7	4.0	4.6	2.9	5.2	4.1	3.0	6.6	4.1	
	RES. DIR. (TENS OF DEGS.)	26	28	35	27	27	28	25	24	24	27	25	27	27	
	MEAN SPEED (MPH)	9.6	9.4	9.4	8.5	7.5	7.6	6.9	6.9	7.9	8.3	7.4	10.0	8.3	
	PREVAIL.DIR.(TENS OF DEGS.)	25	26	25	26	23	26	23	22	21	23	25	26	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	25	29	35	45	31	38	32	33	36	37	29	45	
	DIR. (TENS OF DEGS.)	25	31	07	27	25	25	30	22	23	25	26	27	25	
	DATE OF OCCURRENCE	25	26	13	03	08	24	21	16	24	28	23	28	MAY 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	43	36	39	48	55	41	61	59	41	45	48	39	61	
DIR. (TENS OF DEGS.)	26	29	07	27	26	25	30	23	26	25	27	25	30		
DATE OF OCCURRENCE	28	18	13	03	08	16	21	16	04	28	17	13	JUL 21		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.24	2.40	2.09	1.56	2.55	5.94	5.70	2.68	3.36	3.30	3.01	2.64	37.47	
	GREATEST 24-HOUR (IN.)	0.90	1.12	0.70	0.55	0.77	1.70	1.89	0.85	1.13	0.72	1.19	1.43	1.89	
	DATE OF OCCURRENCE	24-25	26	22-23	25	05-06	06	21	22-23	30	05-06	16-17	01	JUL 21	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	17	15	11	9	14	17	10	11	16	17	12	16	165		
PRECIPITATION 0.10	7	5	5	4	8	11	5	7	9	11	8	6	86		
PRECIPITATION 1.00	0	1	0	0	0	1	4	0	1	0	0	1	8		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	33.8	30.4	T	0.2	0.4	0.0	0.0	0.0	0.0	T	0.4	46.5	111.7	
	GREATEST 24-HOUR (IN.)	6.7	11.8	T	0.2	0.4	0.0	0.0	0.0	0.0	T	0.3	8.3	11.8	
	DATE OF OCCURRENCE	28	26	23+	27	09					31+	27	05	FEB 26	
	MAXIMUM SNOW DEPTH (IN.)	10	14	10	T	T	0	0	0	0	0	0	10	14	
	DATE OF OCCURRENCE	09	28	01	27	09							15+	FEB 28	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	10	7	0	0	0	0	0	0	0	0	0	8	25		

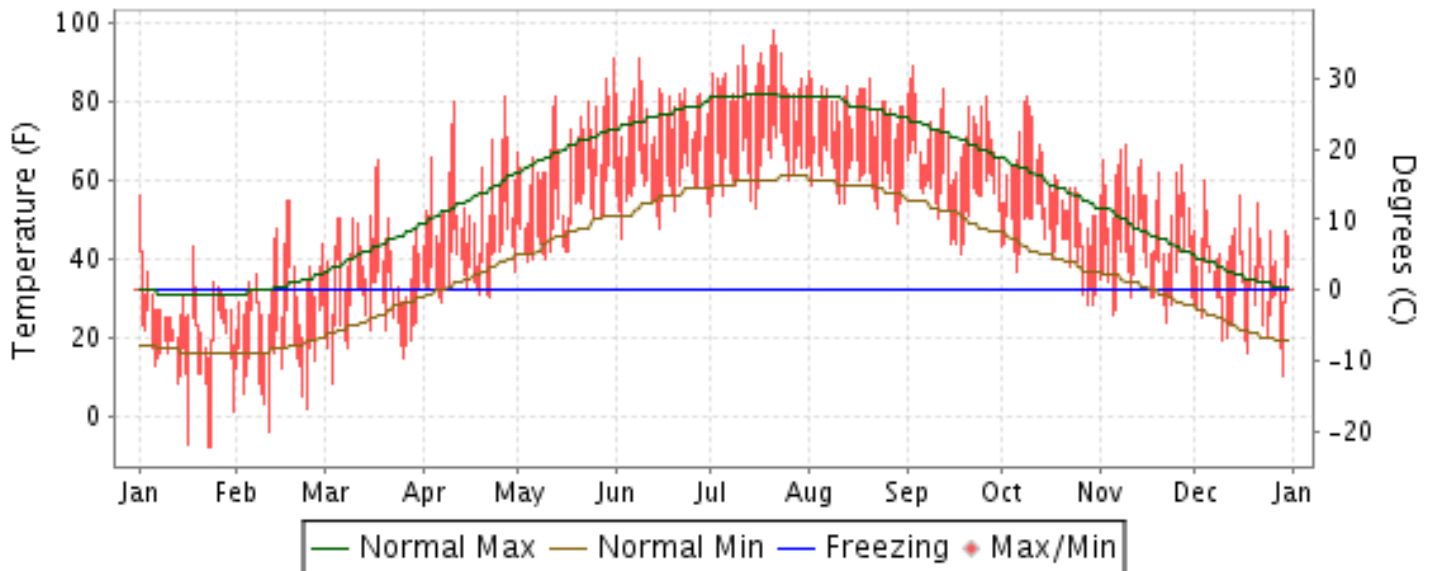


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

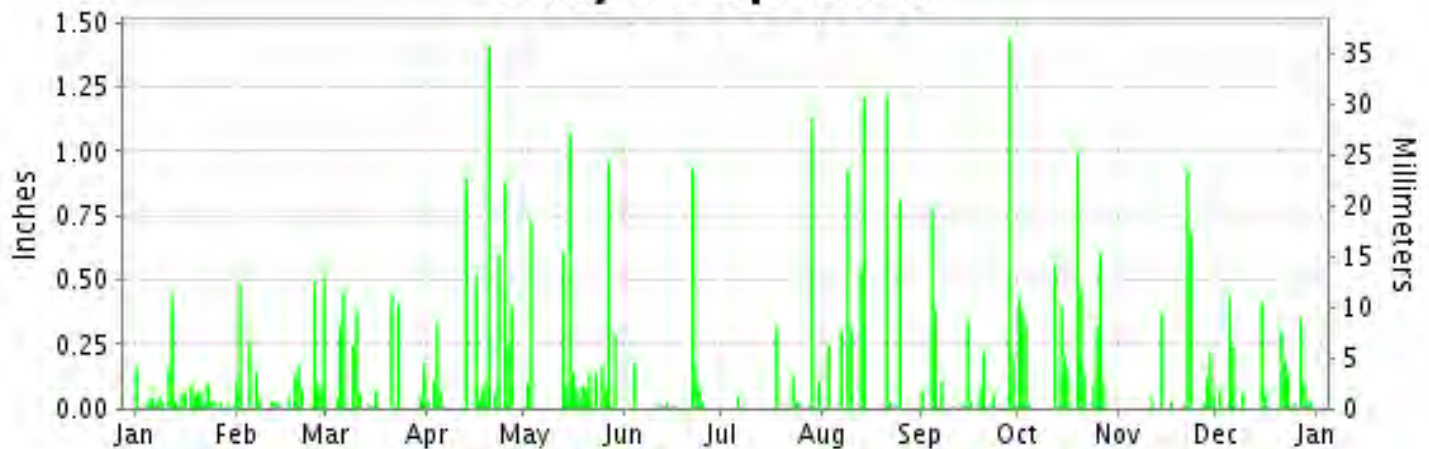
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ROCHESTER, NEW YORK (KROC)

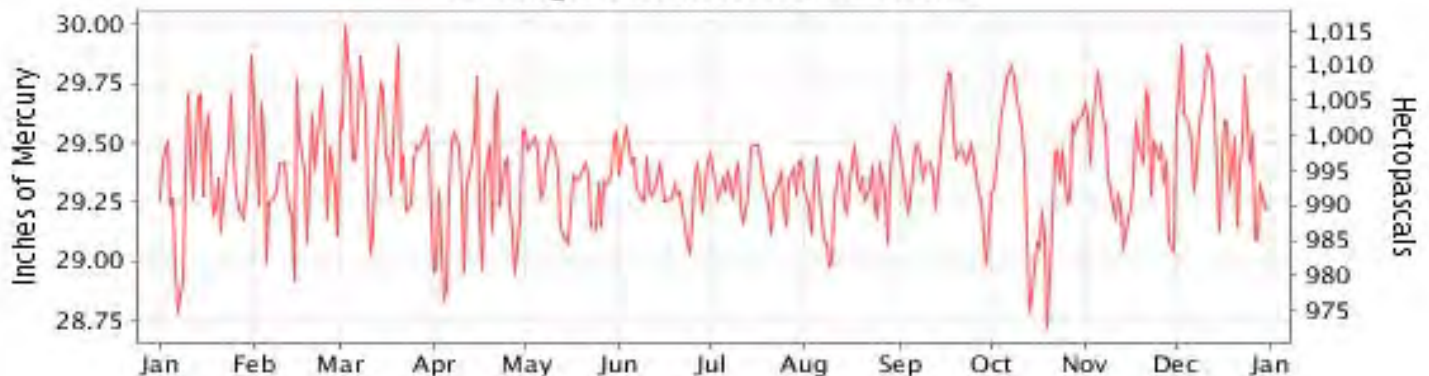
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

ROCHESTER (KROC)

LATITUDE: 43° 7'N LONGITUDE: -77° 40'W ELEVATION (FT): GRND: 533 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	28.2	33.5	41.6	55.5	67.9	76.6	85.9	79.0	72.7	59.8	54.8	42.2	58.1	
	HIGHEST DAILY MAXIMUM	56	55	65	81	91	91	98	88	89	81	69	60	98	
	DATE OF OCCURRENCE	01	18+	18	27	31	08	21	01	03	09	09	04	JUL 21	
	MEAN DAILY MINIMUM	15.5	15.6	25.9	37.3	49.7	57.8	63.4	60.3	55.9	43.2	36.9	28.3	40.8	
	LOWEST DAILY MINIMUM	-8	-4	8	29	39	45	51	49	41	28	24	10	-8	
	DATE OF OCCURRENCE	24+	11	03	07	04	03	01	29	18	30+	22	29	JAN 24+	
	AVERAGE DRY BULB	21.9	24.6	33.8	46.4	58.8	67.2	74.7	69.7	64.3	51.5	45.9	35.3	49.5	
	MEAN WET BULB	20.4	22.4	30.2	42.0	54.1	60.6	65.6	64.2	59.8	47.4	40.9	32.3	45.0	
	MEAN DEW POINT	15.7	16.3	23.4	36.5	50.1	55.5	59.9	60.6	56.7	43.5	34.3	26.9	40.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	1	7	0	0	0	0	0	9	
MAXIMUM <= 32°	24	16	6	0	0	0	0	0	0	0	0	3	49		
MINIMUM <= 32°	30	27	23	11	0	0	0	0	0	4	10	22	127		
MINIMUM <= 0°	3	1	0	0	0	0	0	0	0	0	0	0	4		
H/C	HEATING DEGREE DAYS	1331	1125	960	556	232	30	0	9	86	411	565	914	6219	
	COOLING DEGREE DAYS	0	0	0	3	45	104	305	161	76	1	0	0	695	
RH	MEAN (PERCENT)	76	70	67	71	75	68	63	75	78	77	67	72	72	
	HOUR 01 LST	80	71	74	81	86	82	81	89	89	85	74	76	81	
	HOUR 07 LST	82	77	75	73	77	74	68	79	86	82	72	79	77	
	HOUR 13 LST	70	65	58	62	64	53	45	62	63	62	55	62	60	
	HOUR 19 LST	75	68	67	69	75	63	55	75	80	81	70	74	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	2	2	1	4	1	0	2	2	0	2	0	18	
	THUNDERSTORMS	0	0	0	3	5	4	2	8	5	3	1	1	32	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.36	29.37	29.50	29.29	29.35	29.32	29.33	29.28	29.41	29.38	29.43	29.50	29.38	
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.00	30.12	29.89	29.95	29.91	29.92	29.87	30.00	29.98	30.03	30.11	29.98	
WINDS	RESULTANT SPEED (MPH)	4.9	4.9	3.2	3.3	1.4	3.4	4.0	2.3	1.5	2.1	4.9	5.2	3.2	
	RES. DIR. (TENS OF DEGS.)	26	27	26	24	01	28	27	23	23	25	24	25	26	
	MEAN SPEED (MPH)	8.3	10.3	10.1	10.5	7.7	7.7	7.1	6.4	6.2	7.9	9.0	8.4	8.3	
	PREVAIL.DIR.(TENS OF DEGS.)	26	25	31	26	04	25	22	22	22	23	22	22	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	40	32	51	33	37	29	30	31	33	30	35	51	
	DIR. (TENS OF DEGS.)	26	28	26	23	27	26	26	03	25	26	26	28	23	
	DATE OF OCCURRENCE	21	18	18	28	29	01	21	28	13	17	20	15	APR 28	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	58	44	66	43	52	40	44	44	45	40	46	66	
DIR. (TENS OF DEGS.)	25	28	26	24	27	26	09	27	25	27	26	26	24		
DATE OF OCCURRENCE	21	18	18	11	29	01	13	10	13	17	20	16	APR 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.64	2.76	2.67	5.81	4.80	1.45	1.81	5.61	3.76	5.20	2.46	2.48	40.45	
	GREATEST 24-HOUR (IN.)	0.60	0.53	0.65	1.52	1.10	0.94	1.13	1.75	1.44	1.27	1.60	0.68	1.75	
	DATE OF OCCURRENCE	11-12	01-02	05-06	19-20	15-16	22	29	13-14	28	19-20	22-23	05-06	AUG 13-14	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	24	17	13	16	16	9	8	10	15	16	10	16	170	
PRECIPITATION 0.10	5	9	7	10	10	3	4	8	7	14	5	8	90		
PRECIPITATION 1.00	0	0	0	1	1	0	1	2	1	0	0	0	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	31.7	33.7	15.1	T	0.0	0.0	0.0	0.0	0.0	T	0.3	4.9	85.7	
	GREATEST 24-HOUR (IN.)	7.9	7.5	6.3	T	0.0	0.0	0.0	0.0	0.0	T	0.3	1.8	7.9	
	DATE OF OCCURRENCE	12	25	23	21+						29+	17	28+	JAN 12	
	MAXIMUM SNOW DEPTH (IN.)	10	10	5	0	0	0	0	0	0	0	0	1	10	
	DATE OF OCCURRENCE	13	27+	24+									30+	FEB 27+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	11	11	3	0	0	0	0	0	0	0	0	2	27		

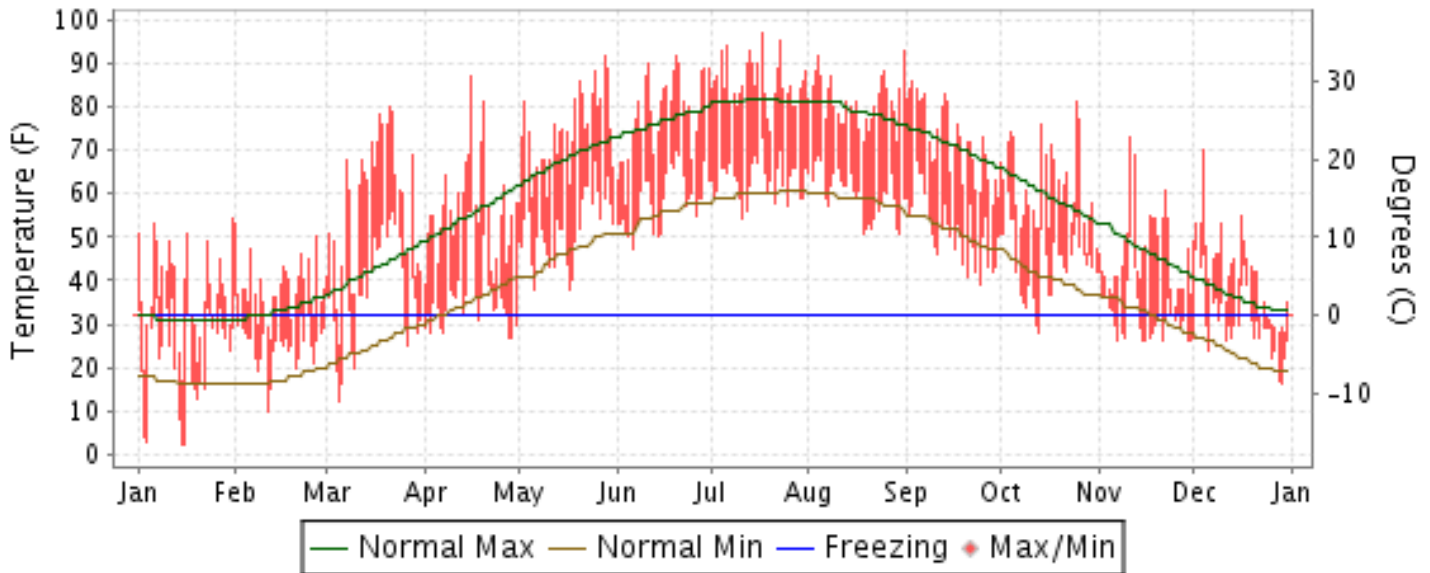


2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

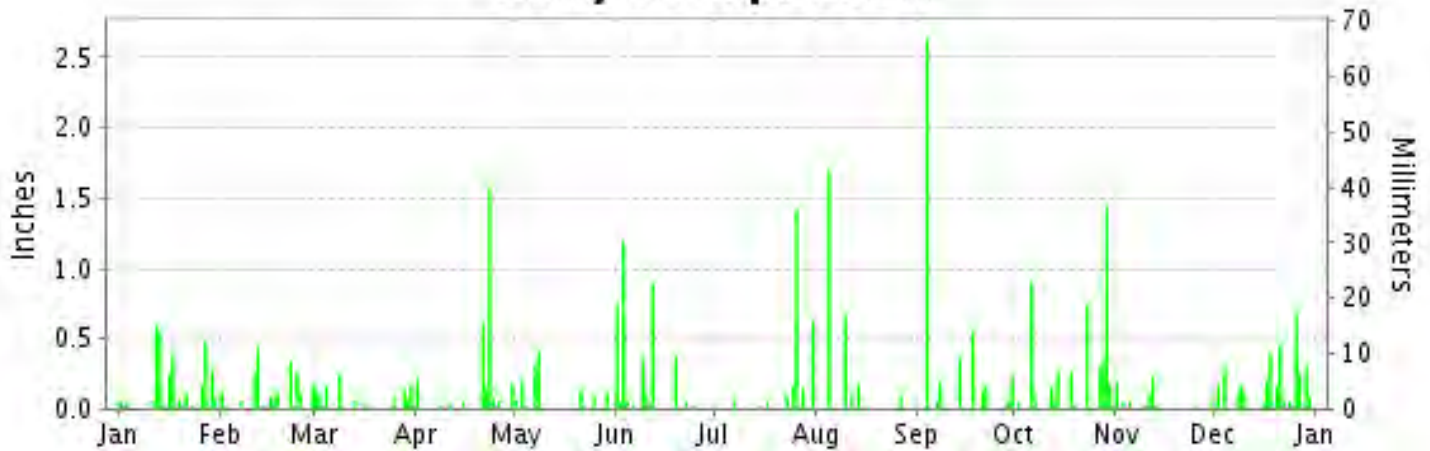
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ROCHESTER, NEW YORK (KROC)

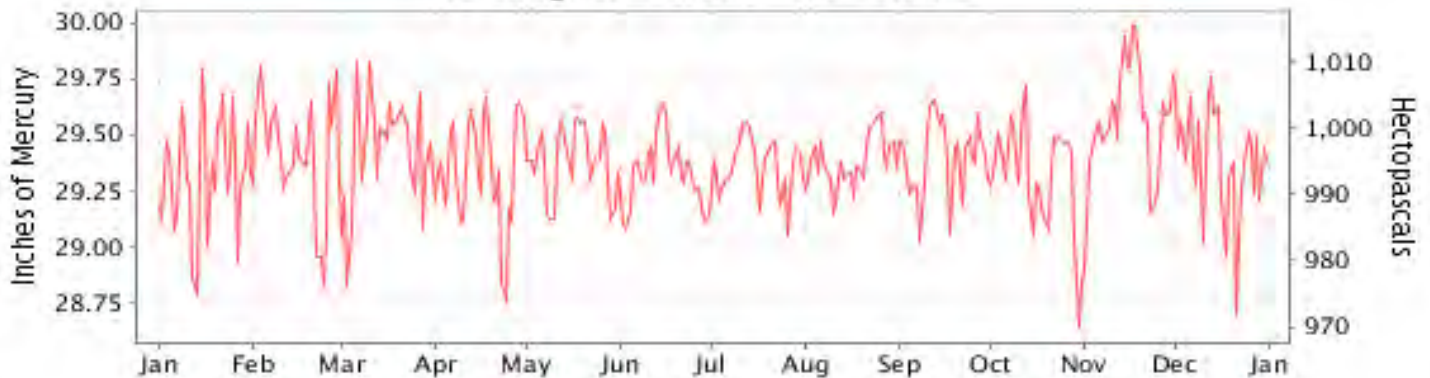
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
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METEOROLOGICAL DATA FOR 2012

ROCHESTER (KROC)

LATITUDE: 43° 7'N LONGITUDE: 77° 40'W ELEVATION (FT): GRND: 539 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.6	38.3	57.3	56.2	74.1	78.5	85.7	81.2	72.4	61.4	46.7	41.7	60.9	
	HIGHEST DAILY MAXIMUM	54	53	80	87	92	92	97	93	86	81	73	70	97	
	DATE OF OCCURRENCE	31	01	21	16	28	20	17	31	03	25	11	04	JUL 17	
	MEAN DAILY MINIMUM	22.7	25.2	37.4	35.5	52.0	58.3	63.3	59.9	51.5	44.2	32.0	30.6	42.7	
	LOWEST DAILY MINIMUM	2	10	12	27	38	47	54	51	39	28	26	16	2	
	DATE OF OCCURRENCE	16+	11	05	29+	17+	06	11	30+	24	13	30+	29	JAN 16+	
	AVERAGE DRY BULB	30.2	31.8	47.4	45.9	63.1	68.4	74.5	70.6	62.0	52.8	39.4	36.2	51.9	
	MEAN WET BULB	27.5	29.4	41.5	39.7	56.3	61.2	65.9	63.8	56.5	48.8	34.9	33.4	46.6	
	MEAN DEW POINT	21.9	24.3	34.5	31.6	50.4	56.2	60.6	59.6	52.6	44.8	29.2	29.3	41.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	3	8	2	0	0	0	0	0	14
	MAXIMUM <= 32°	10	5	1	0	0	0	0	0	0	0	0	8	24	
	MINIMUM <= 32°	25	28	10	11	0	0	0	0	0	2	20	22	118	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1071	956	545	576	127	46	0	7	145	374	763	887	5497	
	COOLING DEGREE DAYS	0	0	5	8	75	155	303	189	62	5	0	0	802	
RH	MEAN (PERCENT)	72	74	65	62	66	67	65	71	75	77	70	77	70	
	HOUR 01 LST	76	77	71	76	83	82	85	87	86	86	75	81	80	
	HOUR 07 LST	78	78	71	66	68	72	70	78	82	84	75	81	75	
	HOUR 13 LST	64	67	53	48	53	51	45	53	57	63	59	71	57	
	HOUR 19 LST	72	75	65	57	60	60	58	70	77	77	71	78	68	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	5	2	0	1	0	1	1	1	0	1	2	17	
	THUNDERSTORMS	0	0	2	0	5	4	6	5	6	0	1	0	29	
PR	MEAN STATION PRESS. (IN.)	29.34	29.41	29.45	29.34	29.39	29.33	29.36	29.38	29.40	29.33	29.55	29.37	29.39	
	MEAN SEA-LEVEL PRESS. (IN.)	29.95	30.04	30.05	29.95	29.99	29.92	29.94	29.97	30.00	29.93	30.17	29.99	29.99	
WINDS	RESULTANT SPEED (MPH)	6.3	5.8	4.1	5.4	2.1	4.1	2.4	3.9	3.2	3.0	4.0	3.1	3.8	
	RES. DIR. (TENS OF DEGS.)	24	26	26	28	28	25	27	23	23	25	26	25	26	
	MEAN SPEED (MPH)	10.2	9.6	9.6	9.7	6.9	8.5	6.9	6.3	6.4	8.4	7.5	8.8	8.2	
	PREVAIL.DIR.(TENS OF DEGS.)	26	25	21	25	21	22	22	22	21	21	25	25	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	52	40	44	37	30	28	31	33	26	41	30	32	52	
	DIR. (TENS OF DEGS.)	25	25	25	28	24	36	23	25	32	02	26	30	25	
	DATE OF OCCURRENCE	17	24	03	09	25	07	31	05	14	29	23	22	JAN 17	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	72	53	66	51	43	37	40	43	38	55	40	43	72		
DIR. (TENS OF DEGS.)	25	26	25	29	27	31	23	25	33	02	27	30	25		
DATE OF OCCURRENCE	17	24	03	09	25	27	31	05	14	29	23	22	JAN 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.32	2.13	1.28	3.05	1.38	3.97	2.62	2.73	4.46	4.93	0.71	3.57	34.15	
	GREATEST 24-HOUR (IN.)	0.65	0.44	0.24	1.65	0.72	1.21	1.48	1.70	2.65	1.54	0.25	0.92	2.65	
	DATE OF OCCURRENCE	11-12	12	08	22-23	07-08	03	25-26	05	04-05	29-30	12-13	26-27	SEP 04-05	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	21	14	15	13	10	13	11	6	12	18	10	17	160		
PRECIPITATION 0.10	8	8	5	5	5	6	4	3	7	9	2	11	73		
PRECIPITATION 1.00	0	0	0	1	0	1	1	1	1	1	0	0	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	19.9	27.3	4.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	22.6	78.1	
	GREATEST 24-HOUR (IN.)	5.5	10.3	2.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	8.5	10.3	
	DATE OF OCCURRENCE	13	12	04	23							30	26	FEB 12	
	MAXIMUM SNOW DEPTH (IN.)	6	7	1	2	0	0	0	0	0	0	T	11	11	
	DATE OF OCCURRENCE	15+	12	06+	23							26	30	DEC 30	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	7	6	2	1	0	0	0	0	0	0	0	6	22		

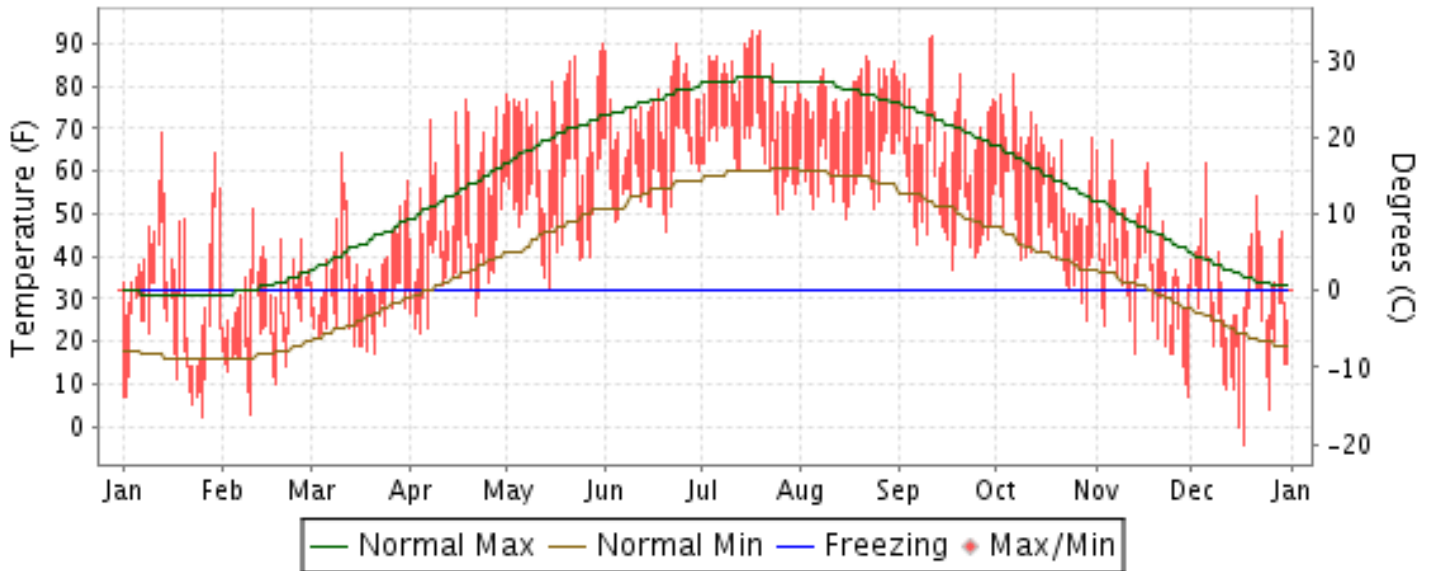


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

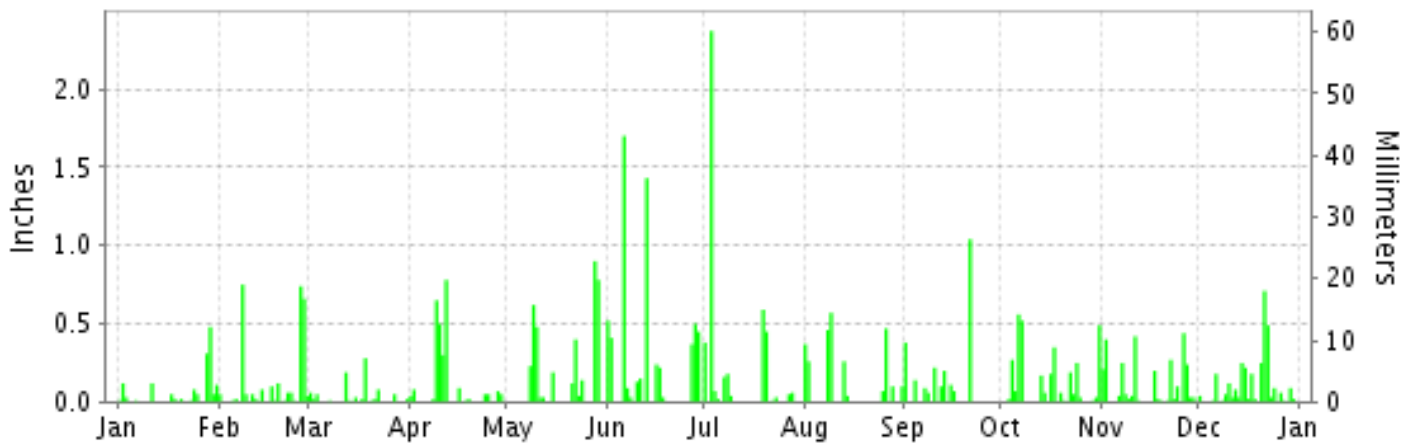
ISSN 0198-3652

ROCHESTER, NEW YORK (KROC)

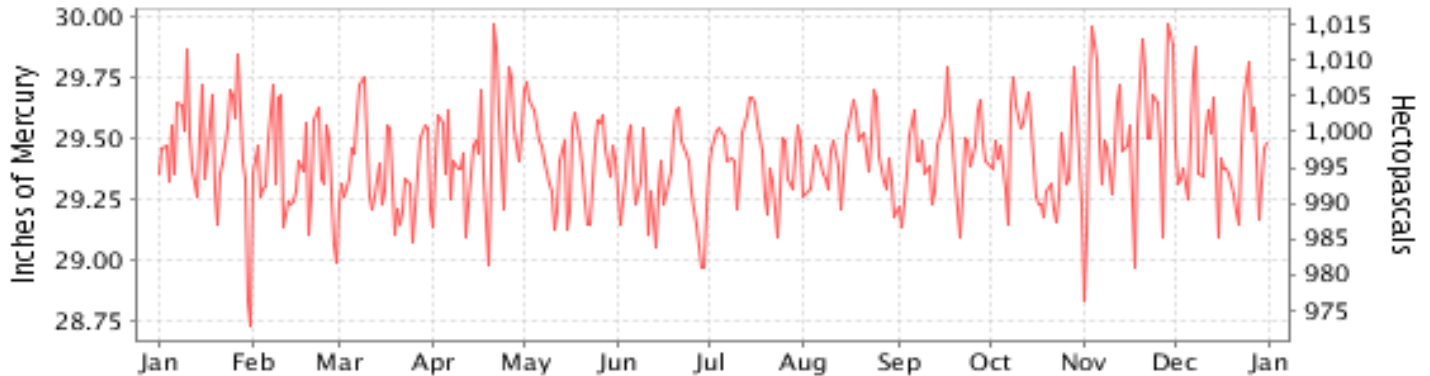
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

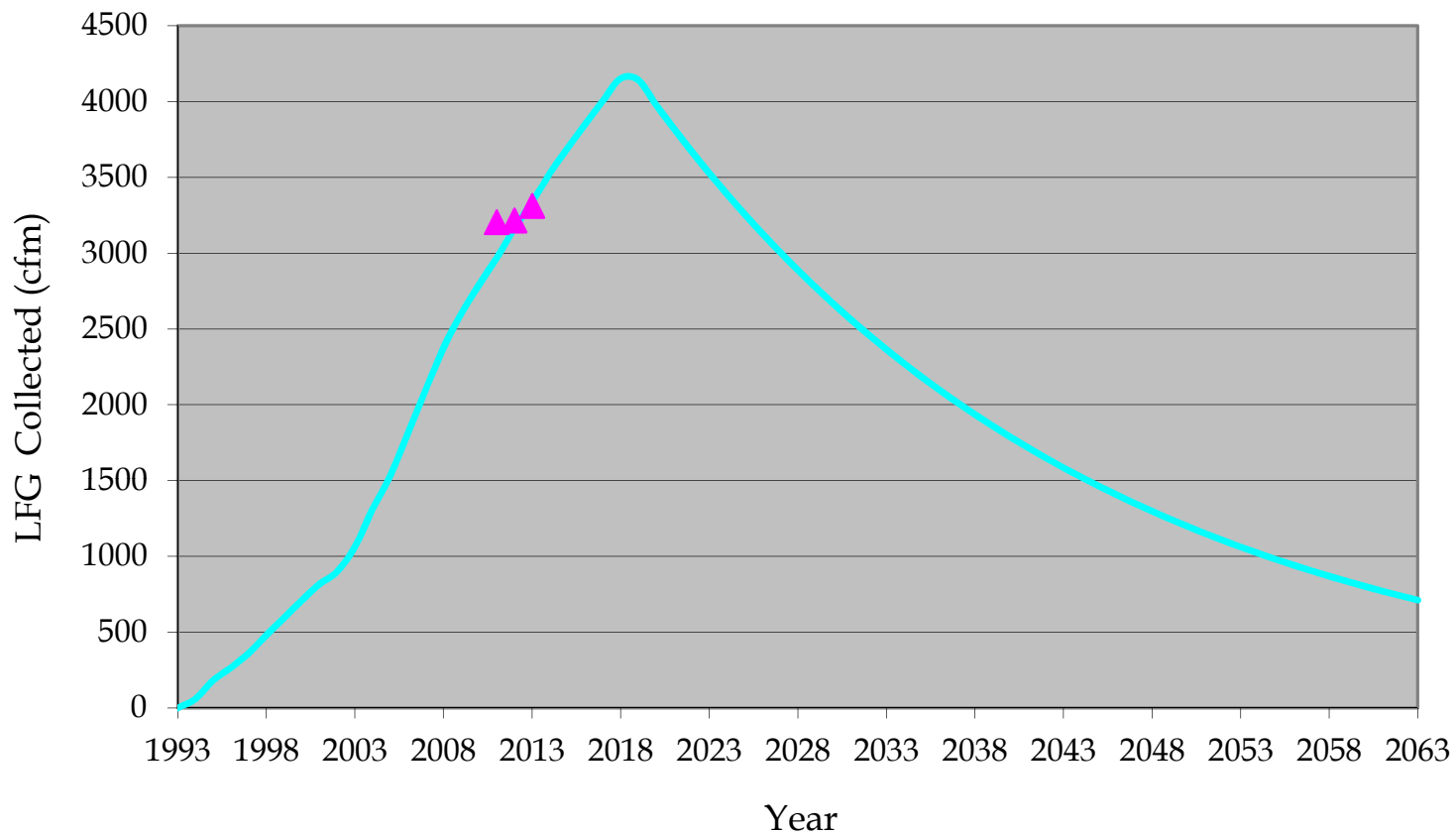
ROCHESTER (KROC)

LATITUDE: 43° 7'N LONGITUDE: 77° 40'W ELEVATION (FT): GRND: 539 BARO: 588 TIME ZONE: EASTERN (UTC -5) WBAN: 14768

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	38.0	32.7	40.3	56.9	72.5	74.8	81.9	79.2	71.4	62.9	45.0	35.6	57.6	
	HIGHEST DAILY MAXIMUM	69	51	64	77	90	90	93	87	92	83	67	62	93	
	DATE OF OCCURRENCE	13	11	10	18	31	23	19+	21	11	06	06	05	JUL 19+	
	MEAN DAILY MINIMUM	22.3	20.8	26.6	36.4	50.4	58.0	64.1	59.3	50.5	43.7	30.0	21.5	40.3	
	LOWEST DAILY MINIMUM	2	3	17	22	32	46	50	49	37	25	7	-4	-4	
	DATE OF OCCURRENCE	26	10	21	04	14	20	25	15	17	29	30	17	DEC 17	
	AVERAGE DRY BULB	30.1	26.8	33.5	46.6	61.4	66.4	73.0	69.3	61.0	53.3	37.5	28.5	49.0	
	MEAN WET BULB	27.1	24.4	29.8	40.5	54.0	60.8	67.0	63.1	56.1	49.1	33.8	26.4	44.3	
	MEAN DEW POINT	21.4	19.0	23.4	32.4	47.1	56.6	63.7	59.2	52.2	44.7	27.0	21.6	39.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	1	5	0	2	0	0	0	0	9
	MAXIMUM <= 32°	10	13	8	0	0	0	0	0	0	0	3	14	48	
	MINIMUM <= 32°	26	25	27	9	1	0	0	0	0	3	15	28	134	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	2	2		
H/C	HEATING DEGREE DAYS	1069	1063	971	545	174	58	8	10	172	365	817	1125	6377	
	COOLING DEGREE DAYS	0	0	0	1	70	107	261	152	59	10	0	0	660	
RH	MEAN (PERCENT)	71	73	68	60	62	73	75	73	75	75	66	75	71	
	HOUR 01 LST	74	76	76	67	75	85	88	88	88	84	71	76	79	
	HOUR 07 LST	73	76	73	65	65	76	80	82	82	83	73	76	75	
	HOUR 13 LST	64	65	57	49	47	62	59	56	57	57	58	71	59	
	HOUR 19 LST	74	74	67	61	60	68	71	70	79	78	66	78	71	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	5	0	1	0	0	1	2	0	2	0	2	16	
	THUNDERSTORMS	0	0	0	5	7	4	5	6	4	2	0	0	33	
PR	MEAN STATION PRESS. (IN.)	29.45	29.37	29.36	29.47	29.43	29.32	29.44	29.42	29.43	29.42	29.52	29.44	29.42	
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	29.99	29.98	30.08	30.03	29.92	30.03	30.02	30.04	30.04	30.15	30.08	30.04	
WINDS	RESULTANT SPEED (MPH)	7.3	4.9	5.3	4.0	2.7	2.2	2.5	3.5	3.5	4.0	6.9	5.1	4.2	
	RES. DIR. (TENS OF DEGS.)	25	25	28	23	26	27	26	26	26	23	25	25	26	
	MEAN SPEED (MPH)	10.4	10.0	10.3	11.1	8.0	7.4	6.1	6.2	6.6	6.9	10.5	8.9	8.5	
	PREVAIL.DIR.(TENS OF DEGS.)	26	26	26	26	26	22	23	23	22	24	21	27	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	45	40	32	38	35	32	39	22	25	32	44	35	45	
	DIR. (TENS OF DEGS.)	27	25	29	26	26	27	30	28	30	24	25	26	27	
	DATE OF OCCURRENCE	20	11	14	19	15	01	03	26	12	26	18	31	JAN 20	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	59	49	44	55	51	41	58	31	32	41	63	46	63	
DIR. (TENS OF DEGS.)	24	26	30	25	27	25	30	27	31	24	23	27	23		
DATE OF OCCURRENCE	31	11	14	19	15	02	03	26	12	26	18	31	NOV 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.47	2.84	0.85	2.71	3.96	6.27	4.41	2.70	2.41	3.32	2.81	2.99	36.74	
	GREATEST 24-HOUR (IN.)	0.50	2.24	0.28	1.11	1.68	1.72	2.44	0.90	1.04	0.80	0.66	1.16	2.44	
	DATE OF OCCURRENCE	29-30	08-09	18	09-10	28-29	06-07	03-04	08-09	21	06-07	26-27	21-22	JUL 03-04	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	15	18	14	14	12	14	13	10	10	18	20	23	181		
PRECIPITATION 0.10	5	5	2	4	9	11	6	8	7	9	9	8	83		
PRECIPITATION 1.00	0	0	0	0	0	2	1	0	1	0	0	0	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	11.7	28.8	11.9	2.3	T	0.0	0.0	0.0	0.0	0.0	13.5	22.5	90.7	
	GREATEST 24-HOUR (IN.)	2.6	10.1	1.9	1.9	T	0.0	0.0	0.0	0.0	0.0	3.7	4.5	10.1	
	DATE OF OCCURRENCE	24	08	03	02	13+						27	14	FEB 08	
	MAXIMUM SNOW DEPTH (IN.)	9	10	4	1	0	0	0	0	0	0	7	8	10	
	DATE OF OCCURRENCE	03+	10+	05+	02							28+	15	FEB 10+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	3	7	6	1	0	0	0	0	0	0	5	7	29		

Mill Seat Landfill

LandGEM - Modeled LFG Collection from Existing Landfill Areas

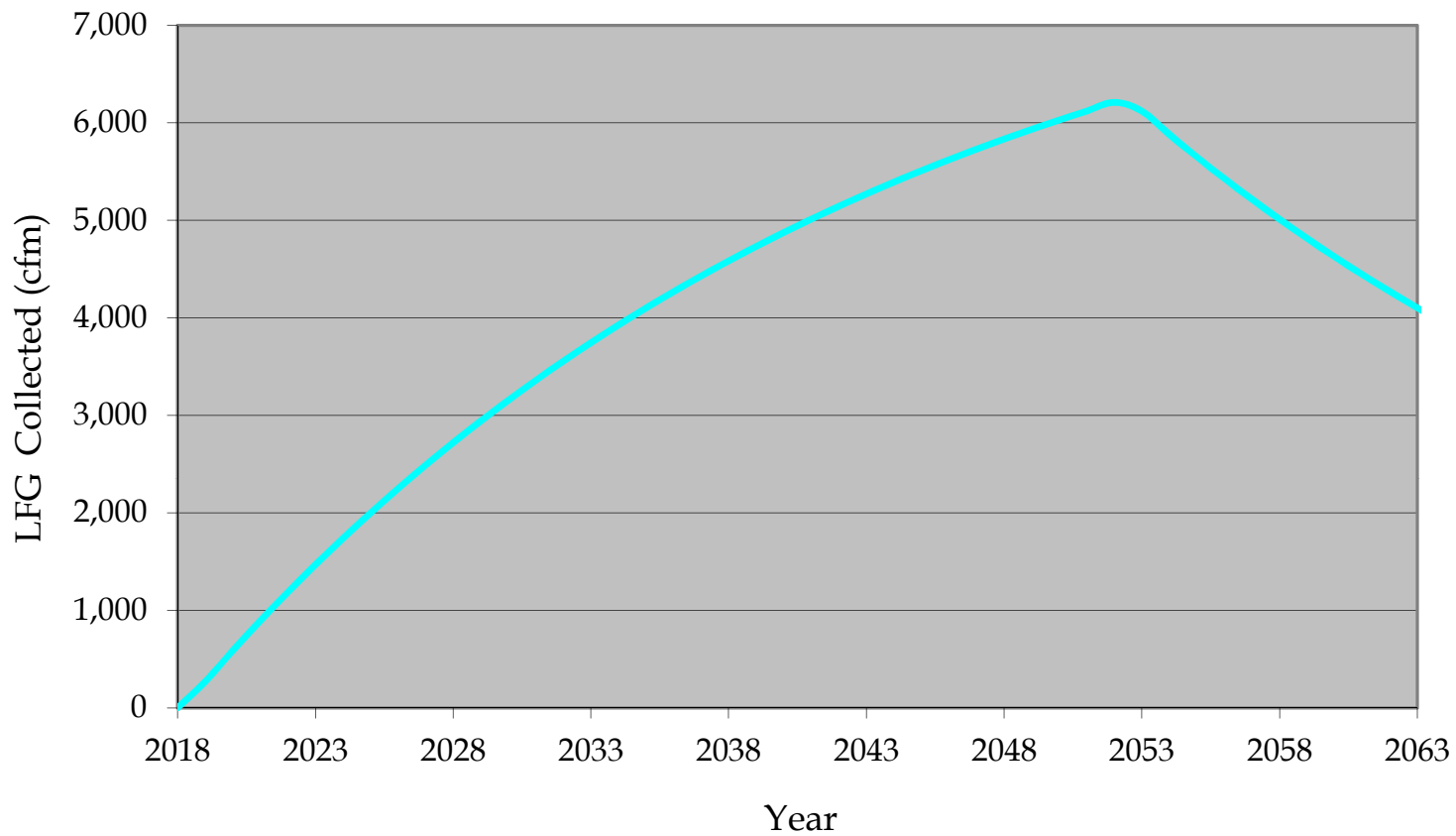


▲ LFG Collected (Actual)

Assumed Collection Efficiency = 85%

Mill Seat Landfill

LandGEM - Modeled LFG Collection from Expansion Landfill Areas



Assumed Collection Efficiency = 85%

**ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY**

SUMMARY OF FACILITY FUGITIVE EMISSIONS

<i>Process</i>	Fugitive PM_{2.5} Emissions		Fugitive PM₁₀ Emissions	
	Existing (TPY)	Expansion (TPY)	Existing (TPY)	Expansion (TPY)
<i>Control of LFG</i>				
Flaring of Expansion Landfill Gas	---	2.77	---	2.77
Flaring Totals		2.77		2.77
<i>Landfill Operation</i>				
Waste Unloading	0.01	0.01	0.09	0.09
Daily Cover Unloading	0.00	0.00	0.01	0.01
Waste/ Daily Cover Compaction	3.69	3.69	6.97	6.97
Paved Roads	0.53	0.58	2.16	2.20
Unpaved Roads	1.12	1.67	11.20	16.69
Operation Totals	5.35	5.95	20.42	25.96
<i>Landfill Construction</i>				
Material Loading/Unloading	0.03	0.03	0.18	0.17
Bulldozing/Compaction	3.73	3.42	6.00	5.42
Grading	0.03	0.02	2.45	1.59
Construction Totals	3.79	3.47	8.63	7.18
Facility Totals (TPY)	9.1	12.2	29.0	35.9
Change in Emissions (TPY)	3.1		6.9	

TABLE 2

**ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY**

SUMMARY OF 2013 EMISSIONS

<i>Emission Source</i>	<i>2013 Actual Emissions (tons/year)</i>									
	<i>NMOC</i>	<i>VOCs</i>	<i>HAPs</i>	<i>Hi-HAP¹</i>	<i>NO_x</i>	<i>CO</i>	<i>SO₂</i>	<i>PM₁₀</i>	<i>PM_{2.5}</i>	<i>Total GHG²</i>
Landfill Fugitive Emissions	4.45	1.73	1.71	---	---	---	---	29.05	9.14	170,095
CAT 3516 Engine Emissions	0.34	0.55	2.84	2.27	114.00	242.94	3.94	0.97	0.97	64,073
Landfill Gas Flare Emissions	0.17	0.07	1.19	1.13	12.88	32.20	1.96	2.46	2.46	31,866
Heating Unit Emissions	---	0.003	---	---	0.04	0.03	0.06	0.005	0.005	59
Portable Gasoline/Diesel Generators & Pumps	---	0.01	---	---	0.07	0.01	0.005	0.005	0.005	3
Parts Washer	---	0.11	---	---	---	---	---	---	---	---
Odor Neutralizers	---	1.33	---	---	---	---	---	---	---	---
Storage Tanks	---	0.06	---	---	---	---	---	---	---	---
Totals	4.95	3.85	5.75	3.40	126.99	275.19	5.97	32.49	12.58	266,096

Notes:

¹ - High HAP is HCl

² - Total greenhouse gas emissions are expressed as tons of carbon dioxide equivalents (tons CO₂ eq)

TABLE 3

ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY

PROJECT EMISSION POTENTIAL - LANDFILL EXPANSION

<i>Emission Source</i>	<i>Potential Emissions (tons/year)</i>								
	<i>NMOC</i>	<i>VOCs</i>	<i>HAPs</i>	<i>Hi-HAP¹</i>	<i>NO_x</i>	<i>CO</i>	<i>SO₂</i>	<i>PM₁₀</i>	<i>PM_{2.5}</i>
Landfill Fugitive Emissions	8.34	3.25	4.57	1.72	---	---	---	4.21	0.26
Future LFG Flare Combustion Emissions	0.95	0.37	1.95	0.19	54.54	181.81	30.68	2.77	2.77
Totals	9.29	3.62	6.52	1.91	54.54	181.81	30.68	6.99	3.04

Notes:

¹ - High HAP is Toluene

² - Total greenhouse gas emissions are expressed as tons of carbon dioxide equivalents (tons CO₂ eq)

**ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY**

SUMMARY OF OPERATION/CONSTRUCTION GREENHOUSE GAS EMISSIONS

<i>Process</i>	GHG Emissions	
	Existing (TPY CO₂E)	Expansion (TPY CO₂E)
<i>Direct Emissions From Non-Stationary Sources</i>		
Work at On-Site Borrow Area	899.9	0.0
Transport of Off-Site Daily Cover Soils to On-Site Stockpile	0.0	823.5
Transport of Off-Site Construction Materials to On-Site Stockpile	1,324.2	1,324.2
Landfill Operations	2,415.0	2,415.0
Landfill Construction	926.6	926.6
<i>Indirect Emissions From Mobile Sources</i>		
Light-Duty Vehicles Traveling to Site	145.7	145.7
Totals (TPY)	5,711.4	5,635.0
Change in Emissions (TPY)	-76.4	

**ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY**

SUMMARY OF MODELED RESULTS WITH DAR-1 VALUES

		AERMOD GLC		SGC (ug/m3)	AGC (ug/m3)	Percent of SGC (%)	Percent of AGC (%)
		1-Hour (ug/m3)	Annual (ug/m3)				
71-55-6	1,1,1-Trichloroethane	0.11434	0.00081	9000	5000	0.0%	0.0%
79-34-5	1,1,2,2-Tetrachloroethane	0.05994	0.00042	NA	16	NA	0.0%
75-34-3	1,1-Dichloroethane	0.37413	0.00264	NA	0.63	NA	0.4%
75-35-4	1,1-Dichloroethene	0.0455	0.00032	NA	200	NA	0.0%
107-06-2	1,2-Dichloroethane	0.06058	0.00043	NA	0.038	NA	1.1%
78-87-5	1,2-Dichloropropane	0.01326	0.00009	NA	4	NA	0.0%
67-63-0	2-Propanol	2.42499	0.01712	98000	7000	0.0%	0.0%
67-64-1	Acetone	1.81513	0.01281	180000	30000	0.0%	0.0%
107-13-1	Acrylonitrile	0.00974	0.00007	NA	0.015	NA	0.5%
71-43-2	Benzene	0.38732	0.00273	1300	0.13	0.0%	2.1%
75-27-4	Bromodichloromethane	0.25992	0.00183	NA	70	NA	0.0%
106-97-8	Butane	1.4914	0.01053	238000	NA	0.0%	NA
75-15-0	Carbon disulfide	0.12428	0.00088	6200	700	0.0%	0.0%
56-23-5	Carbon tetrachloride	0.00549	0.00004	1900	0.17	0.0%	0.0%
463-58-1	Carbonyl sulfide	0.05608	0.0004	250	28	0.0%	0.0%
108-90-7	Chlorobenzene	0.13035	0.00092	NA	60	NA	0.0%
75-45-6	Chlorodifluoromethane	0.1566	0.00111	NA	50000	NA	0.0%
75-00-3	Chloroethane	0.07867	0.00056	NA	10000	NA	0.0%
67-66-3	Chloroform	0.01279	0.00009	150	14.7	0.0%	0.0%
74-87-3	Chloromethane	0.06414	0.00045	22000	90	0.0%	0.0%
106-46-7	Dichlorobenzene	1.20513	0.00851	NA	0.09	NA	9.5%
75-71-8	Dichlorodifluoromethane	1.08006	0.00762	NA	12000	NA	0.0%
75-43-4	Dichlorofluoromethane	1.37563	0.00971	NA	100	NA	0.0%
75-09-2	Dichloromethane	1.47114	0.01038	14000	60	0.0%	0.0%
75-18-3	Dimethyl Sulfide	2.15815	0.01523	14	4.8	15.4%	0.3%
64-17-5	Ethanol	27.88528	0.19682	NA	45000	NA	0.0%
75-08-1	Ethyl mercaptan	0.42979	0.00303	NA	3.1	NA	0.1%
100-41-4	Ethylbenzene	3.67682	0.02595	NA	1000	NA	0.0%
106-93-4	Ethylene dibromide	0.04409	0.00031	NA	0.0017	NA	18.2%
75-69-4	Fluorotrichloromethane	0.22919	0.00162	9000	5000	0.0%	0.0%
110-54-3	Hexane	1.02175	0.00721	NA	700	NA	0.0%
7647-01-0	Hydrogen Chloride	8.63257	0.22989	2100	20	0.4%	1.1%
7783-06-4	Hydrogen Sulfide	4.09874	0.02893	14	2	29.3%	1.4%
7439-97-6	Mercury 3	0.00151	4.00E-05	0.6	0.3	0.3%	0.0%
78-93-3	Methyl ethyl ketone	3.8836	0.02741	13000	5000	0.0%	0.0%
108-10-1	Methyl isobutyl ketone	0.38232	0.0027	31000	3000	0.0%	0.0%
74-93-1	Methyl mercaptan	0.3171	0.00224	14	2.3	2.3%	0.1%
109-66-0	Pentane	1.21097	0.00855	NA	42000	NA	0.0%
127-18-4	Perchloroethylene	1.00927	0.00712	300	4	0.3%	0.2%
74-98-6	Propane	3.31923	0.02343	NA	43000	NA	0.0%
108-88-3	Toluene	11.9405	0.08428	37000	5000	0.0%	0.0%
79-01-6	Trichloroethene	0.45651	0.00322	14000	0.2	0.0%	1.6%
75-01-4	Vinyl chloride	0.3434	0.00242	180000	0.068	0.0%	3.6%
1330-20-7	Xylene (m-, o- & p- mixture)	8.98052	0.06339	22000	100	0.0%	0.1%

Notes:

SGC - 1-hour adverse acute exposure limit

AGC - annual adverse chronic exposure limit

TABLE 6

**ENVIRONMENTAL IMPACT STATEMENT
MILL SEAT LANDFILL
MONROE COUNTY, NY**

SUMMARY OF PSD SIGNIFICANT IMPACT LEVEL CONCENTRATIONS FOR PROPOSED PROJECT

<i>Pollutant</i>	<i>Averaging Time</i>	<i>SIL Level ($\mu\text{g}/\text{m}^3$)</i>	<i>Predicted Expansion Impacts Maximum GLC ($\mu\text{g}/\text{m}^3$)</i>	<i>Percentage of SIL (%)</i>
Carbon Monoxide	1-hour	2,000	59.55	3.0%
	8-hour	500	32.81	6.6%
Nitrogen Dioxide	1-hour	7.5 (1)	7.19 (2)	95.9%
	annual	1	0.20 (2)	20.3%

Notes:

- (1) Calculated from the EPA recommended interim 1-hour NO₂ SIL value of 4 ppb.
- (2) Tier II NO_x assumes 75% of nitrogen oxides is converted to nitrogen dioxide.