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CLIMATE REPORT  
NATIONAL WEATHER SERVICE DETROIT/PONTIAC MI  
141 PM EST SAT FEB 18 2012

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...THE FLINT CLIMATE SUMMARY FOR THE YEAR OF 2011...

CLIMATE NORMAL PERIOD 1981 TO 2010  
CLIMATE RECORD PERIOD 1921 TO 2012

WEATHER	OBSERVED VALUE	DATE (S)	NORMAL VALUE	DEPART FROM NORMAL
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TEMPERATURE (F)

RECORD

HIGH	108	07/13/1936 07/08/1936		
LOW	-25	01/18/1976		
HIGHEST	99	07/21	MM	MM
LOWEST	-10	02/23 01/24	MM	MM
AVG. MAXIMUM	58.3		57.1	1.2
AVG. MINIMUM	39.4		37.7	1.7
MEAN	48.8		47.4	1.4
DAYS MAX >= 90	22		6.3	15.7
DAYS MAX <= 32	56		52.5	3.5
DAYS MIN <= 32	136		142.4	-6.4
DAYS MIN <= 0	9		9.0	0.0

PRECIPITATION (INCHES)

RECORD

MAXIMUM	MM	MM		
MINIMUM	MM	MM		
TOTALS	40.95		31.37	9.58
DAILY AVG.	0.11		0.09	0.02
DAYS >= .01	152		135.7	16.3
DAYS >= .10	86		69.2	16.8
DAYS >= .50	23		18.5	4.5
DAYS >= 1.00	9		5.1	3.9
GREATEST				
24 HR. TOTAL	5.05	MM		
STORM TOTAL	MM			
(MM/DD(HH))		MM		

SNOWFALL (INCHES)

RECORDS

TOTAL	MM	5		
24 HR TOTAL	MM			
TOTALS	67.9		47.4	20.5

LIQUID EQUIV	6.79		MM	MM
SINCE 7/1	8.1		14.7	-6.6
LIQUID 7/1	0.81			
DAYS >= TRACE	71		45.0	26.0
DAYS >= 1.0	22		14.9	7.1
GREATEST				
SNOW DEPTH	14	02/08		
		02/03		
24 HR TOTAL	8.3	MM		
STORM TOTAL	MM			
(MM/DD(HH))		MM		

DEGREE_DAYS				
HEATING TOTAL	6584		6950	-366
SINCE 7/1	MM		2645	MM
COOLING TOTAL	819		532	287
SINCE 1/1	819		531	288

FREEZE DATES

RECORD

EARLIEST	MM		
LATEST	MM		
EARLIEST		MM	
LATEST		MM	

WIND (MPH)

AVERAGE WIND SPEED	8.3		
HIGHEST WIND SPEED/DIRECTION	40/180	DATE	05/29
HIGHEST GUST SPEED/DIRECTION	81/330	DATE	07/30

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.50
NUMBER OF DAYS FAIR	159
NUMBER OF DAYS PC	102
NUMBER OF DAYS CLOUDY	104

AVERAGE RH (PERCENT) 70

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	33	RAIN	57
LIGHT RAIN	136	FREEZING RAIN	3
LT FREEZING RAIN	5	HAIL	1
HEAVY SNOW	3	SNOW	16
LIGHT SNOW	66	SLEET	1
FOG	219	FOG W/VIS <= 1/4 MILE	30
HAZE	107		

- INDICATES NEGATIVE NUMBERS.  
R INDICATES RECORD WAS SET OR TIED.  
MM INDICATES DATA IS MISSING.  
T INDICATES TRACE AMOUNT.

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE DETROIT/PONTIAC MI  
 1237 PM EST TUE FEB 7 2012

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...THE TRI CITIES CLIMATE SUMMARY FOR THE YEAR OF 2011...

CLIMATE NORMAL PERIOD 1981 TO 2010  
 CLIMATE RECORD PERIOD 1898 TO 2012

WEATHER	OBSERVED VALUE	DATE (S)	NORMAL VALUE	DEPART FROM NORMAL
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TEMPERATURE (F)

RECORD

HIGH	111	07/13/1936 10/07/5881 10/07/5881		
LOW	-23	02/05/1918 10/07/5881 10/07/5881		
HIGHEST	97	07/21	0	97
LOWEST	-4	02/10 01/24 01/23	38	-42
AVG. MAXIMUM	57.0		56.5	0.5
AVG. MINIMUM	39.8		38.3	1.5
MEAN	48.4		47.4	1.0
DAYS MAX >= 90	11		7.2	3.8
DAYS MAX <= 32	58		54.7	3.3
DAYS MIN <= 32	133		138.9	-5.9
DAYS MIN <= 0	4		6.2	-2.2

PRECIPITATION (INCHES)

RECORD

MAXIMUM	MM	MM		
MINIMUM	MM	MM		
TOTALS	33.79		31.54	2.25
DAILY AVG.	0.09		0.09	0.00
DAYS >= .01	142		123.5	18.5
DAYS >= .10	76		65.7	10.3
DAYS >= .50	18		18.7	-0.7
DAYS >= 1.00	5		5.9	-0.9
GREATEST				
24 HR. TOTAL	3.11	MM		
STORM TOTAL	MM			
(MM/DD(HH))		MM		

SNOWFALL (INCHES)

RECORDS

TOTAL	MM	5		
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24 HR TOTAL           MM  
  10/07/5881 TO 10/07/5881  
TOTALS                   78.1                   41.5           36.6  
  LIQUID EQUIV       7.81                   MM           MM  
  SINCE 7/1           11.8                   12.9          -1.1  
  LIQUID 7/1         1.18  
  DAYS >= TRACE       76                   30.4          45.6  
  DAYS >= 1.0         19                   15.9          3.1  
GREATEST  
  SNOW DEPTH           19    02/02  
  24 HR TOTAL         10.1   MM  
  STORM TOTAL         MM  
  (MM/DD(HH))                   MM

DEGREE\_DAYS  
HEATING TOTAL       6688                   6968       -280  
  SINCE 7/1           MM                   2640       MM  
COOLING TOTAL       762                   558       204  
  SINCE 1/1           762                   557       205

FREEZE DATES

RECORD  
  EARLIEST           MM  
  LATEST             MM  
EARLIEST                           MM  
LATEST                           MM

WIND (MPH)

AVERAGE WIND SPEED                   9.2  
HIGHEST WIND SPEED/DIRECTION       44/030       DATE 10/19  
HIGHEST GUST SPEED/DIRECTION       56/030       DATE 10/19

SKY COVER

POSSIBLE SUNSHINE (PERCENT)       MM  
AVERAGE SKY COVER                   0.50  
NUMBER OF DAYS FAIR                   170  
NUMBER OF DAYS PC                   102  
NUMBER OF DAYS CLOUDY               93

AVERAGE RH (PERCENT)               73

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	30	RAIN	46
LIGHT RAIN	120	FREEZING RAIN	2
LT FREEZING RAIN	5	HAIL	0
HEAVY SNOW	5	SNOW	14
LIGHT SNOW	71	SLEET	0
FOG	196	FOG W/VIS <= 1/4 MILE	30
HAZE	84		

- INDICATES NEGATIVE NUMBERS.  
R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.  
T INDICATES TRACE AMOUNT.

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...2011 A YEAR FOR THE RECORD BOOKS IN SOUTHEAST MICHIGAN....

WITH 14 BILLION DOLLAR WEATHER DISASTERS, 2011 WILL BE REMEMBERED AS A YEAR OF EXTREMES FOR THE UNITED STATES. SOUTHEAST MICHIGAN WAS NO EXCEPTION TO THE EXTREME TRENDS OF 2011.

AFTER A PROLONGED COLD AND WET SPRING, THE 2ND HALF OF THE YEAR BEGAN WITH SURGING TEMPERATURES AND THE HOTTEST MONTH EVER RECORDED IN DETROIT. ABOVE NORMAL TEMPERATURES GENERALLY PERSISTED THROUGH THE REMAINDER OF THE YEAR, WITH NOVEMBER ALSO FINISHING MUCH ABOVE NORMAL (5TH WARMEST ON RECORD). ALTHOUGH THE YEAR TIED WITH FOUR OTHER YEARS FOR THE 19TH WARMEST ON RECORD, THE 2ND HALF OF THE YEAR (JULY 1ST THROUGH DECEMBER 31ST) HAD AN AVERAGE TEMPERATURE OF 58.9 DEGREES (3RD WARMEST) BEHIND 1881 AND 1931. IN FLINT AND THE TRI-CITIES, JULY, NOVEMBER, AND DECEMBER ALL RANKED AMONG THE TOP 10 WARMEST FOR EACH MONTH.

IT COULD BE EASILY ARGUED THAT WARMTH WAS NOT THE BIGGEST STORY OF THE YEAR AS A MEMORABLE WINTER TRANSITIONED TO A RECORD-BREAKING SPRING, ONLY TO BE FOLLOWED BY A RECORD-BREAKING AUTUMN FOR DETROIT. THE VERY ACTIVE END TO WINTER GAVE BOTH THE FLINT AREA AND THE TRI-CITIES THEIR SNOWIEST MONTH ON RECORD (FEBRUARY), AS WELL AS DETROIT'S 2ND SNOWIEST FEBRUARY. AS TEMPERATURES WARMED AND WINTER TURNED TO SPRING, FLINT AND DETROIT RECORDED THEIR WETTEST AND 2ND WETTEST SPRINGS ON RECORD, WHILE THE TRI-CITIES EXPERIENCED THEIR 10TH WETTEST. WHILE NEITHER FLINT NOR THE TRI-CITIES FINISHED INSIDE THE TOP 10 FOR WETTEST AUTUMN SEASONS, DETROIT STILL MANAGED TO RECORD ITS WETTEST FALL ON RECORD. BY THE END OF 2011, DETROIT HAD SEEN ITS WETTEST YEAR ON RECORD, FLINT HAD SEEN ITS 4TH WETTEST, AND THE TRI-CITIES SAW THEIR HIGHEST JANUARY-TO-DECEMBER SNOWFALL TOTAL IN THE HISTORICAL RECORD.

THE TOTAL PRECIPITATION FOR THE FLINT AREA IN 2011 WAS 40.95" (4TH WETTEST...THE RECORD IS 45.38" IN 1975), AND 9.58" ABOVE THE 31.37" ANNUAL AVERAGE. THAT INCLUDED 67.9 INCHES OF SNOW, THE 4TH HIGHEST ANNUAL TOTAL IN THE HISTORICAL RECORD (CURRENT RECORD, 88.7" IN 2008), AND 20.5" ABOVE THE 47.4" CALENDAR YEAR AVERAGE. THE TOTAL PRECIPITATION FOR THE TRI-CITIES IN 2011 WAS 33.79" (31ST WETTEST), WHICH WAS 2.25" ABOVE THE 31.54" ANNUAL AVERAGE. THAT INCLUDED 78.1" OF SNOW, AN ALL-TIME RECORD (PREVIOUSLY 77.0" IN 1947), AND 36.6" ABOVE THE 41.5" CALENDAR YEAR AVERAGE. THE AVERAGE HIGH TEMPERATURE FOR THE FLINT AREA FOR THE YEAR WAS 58.3 (TIED FOR 23RD WARMEST), +1.2 DEGREES ABOVE THE NORMAL VALUE OF 57.1. THE AVERAGE HIGH IN THE TRI-CITIES WAS 57.0 (TIED FOR 14TH WARMEST), +0.5 DEGREES ABOVE THE 56.7 DEGREE NORMAL. FLINT'S AVERAGE LOW FOR 2011 WAS 39.4 (TIED FOR 16TH WARMEST), OR +1.7 DEGREES ABOVE THE 37.7 DEGREE NORMAL. SIMILARLY, THE AVERAGE LOW IN THE TRI-CITIES IN 2011 WAS 39.8 (5TH

WARMEST...THE RECORD IS 41.8 IN 1998), +1.5 DEGREES ABOVE THE NORMAL OF 38.3 DEGREES. THE AVERAGE TEMPERATURE FOR THE ENTIRE YEAR OF 2011 IN FLINT WAS 48.8 (TIED FOR 19TH WARMEST, THE RECORD IS 50.9 IN 1998), A DEPARTURE OF +1.4 DEGREES FROM THE 47.4 DEGREE ANNUAL AVERAGE. FOR THE TRI-CITIES, IT WAS 48.4 (TIED FOR 8TH WARMEST...51.5 IN 1998), +1.0 DEGREES ABOVE THE 47.4 DEGREE ANNUAL AVERAGE.