

NORTH-CENTRAL PENNSYLVANIA 2004 ICE STORM

Amanda Reynolds

A series of several parallel white lines of varying lengths and positions, all slanted diagonally from the bottom-left towards the top-right, located in the right half of the slide.



Goal: Determine how much rain fell, and what the temperatures were between the hours of 10PM LST on January 4th and Noon on January 5th 2004 for areas in McKean, Elk and Cameron Counties.

Data from the KBFD Airport Observing Station

Note: No precipitation
measurements at the airport
during requested time frame

Date & Time	Average Temp (°F)	Precipitation (in)
1/4/2004 22:00	29.38	0
1/4/2004 23:00	28.52	
1/5/2004 0:00	28.57	
1/5/2004 1:00	28.57	
1/5/2004 2:00	29.38	
1/5/2004 3:00	30.38	
1/5/2004 4:00	30.55	
1/5/2004 5:00	30.43	
1/5/2004 6:00	30.55	
1/5/2004 7:00	32	
1/5/2004 8:00	32	
1/5/2004 9:00	32	
1/5/2004 10:00	33.1	
1/5/2004 11:00	33.1	
1/5/2004 12:00	33.87	

Precipitation measurements before and after

2004-01-04 17:00:00	32.00	0.02
2004-01-04 18:00:00	32.00	0.02
2004-01-04 19:00:00	30.82	0.01
2004-01-04 20:00:00	30.10	0.00
2004-01-04 21:00:00	28.57	0.00
2004-01-04 22:00:00	29.38	0.00
2004-01-04 23:00:00	28.52	
2004-01-05 00:00:00	28.57	
2004-01-05 01:00:00	28.57	
2004-01-05 02:00:00	29.38	
2004-01-05 03:00:00	30.38	

2004-01-05 10:00:00	33.10	
2004-01-05 11:00:00	33.10	
2004-01-05 12:00:00	33.87	
2004-01-05 13:00:00	34.45	
2004-01-05 14:00:00	33.90	0.07
2004-01-05 15:00:00	33.45	0.03
2004-01-05 16:00:00	32.00	0.03
2004-01-05 17:00:00	31.45	0.02
2004-01-05 18:00:00	30.10	0.00
2004-01-05 19:00:00	28.90	0.00
2004-01-05 20:00:00	28.27	0.00

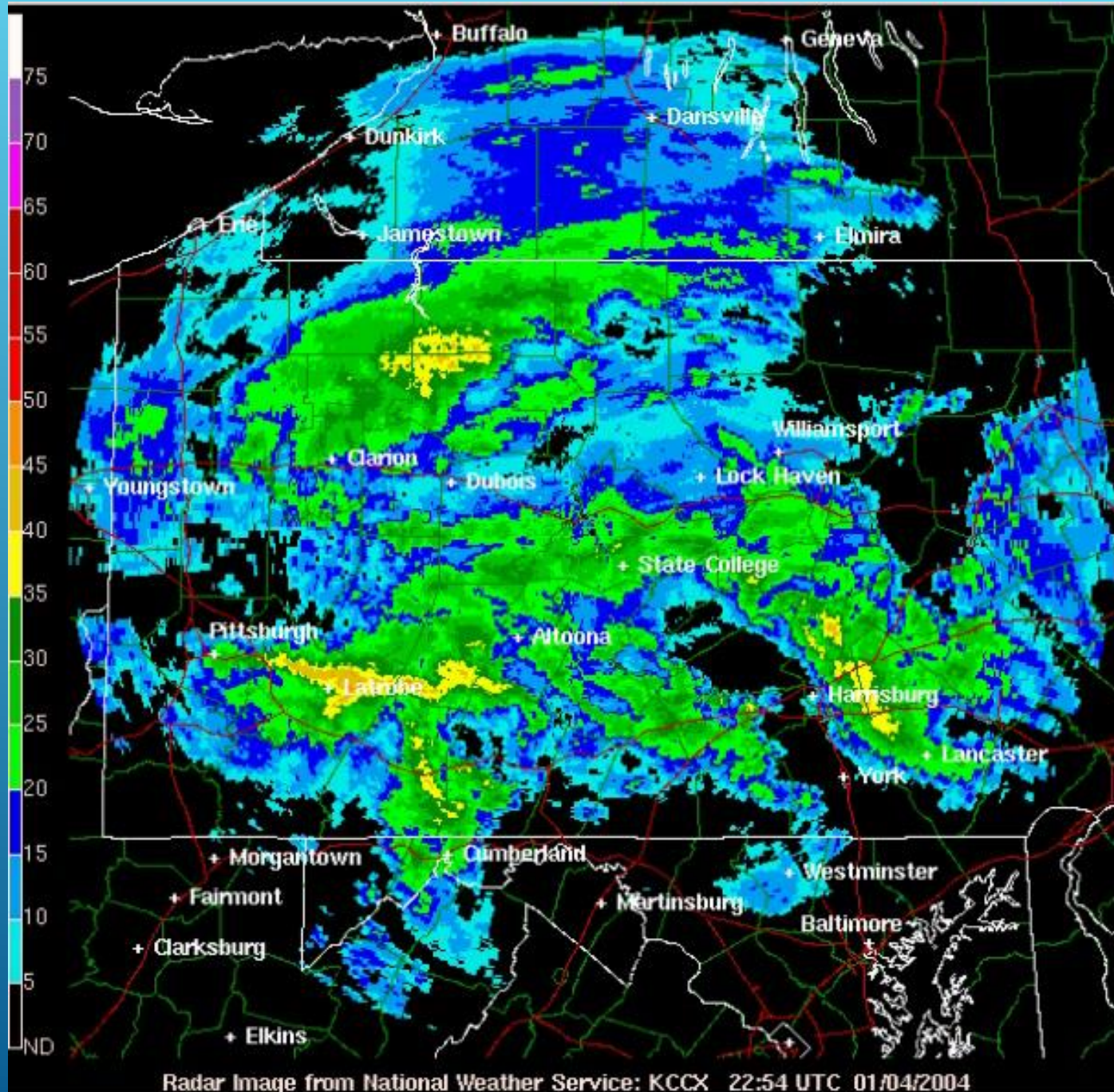
From PA Climate Events Database: Ice

Date & Time	lat	lon	comments	state
1/4/2004 21:00	41.331	-78.1251		PA
1/4/2004 21:00	41.2513	-78.4344		PA
1/4/2004 21:00	41.5721	-78.3845		PA
1/4/2004 23:00	40.5111	-75.4255		PA
1/4/2004 23:00	40.5915	-75.1102		PA
1/4/2004 23:00	41.0317	-74.4514	0.5	NJ
1/5/2004 6:00	41.2715	-79.1025	0.25	PA
1/5/2004 6:00	41.144	-79.03	0.25	PA

Slightly South of
Given Area



Radar from KCCX



Radar Image from National Weather Service: KCCX 22:54 UTC 01/04/2004

Daily Observations from Local COOP Stations

Date	Max Temp (F)	Min Temp (F)	Rainfall (in)
1/4/2004	59	35	0.25
1/4/2004	56	36	0.35
1/4/2004	54	33	0.27
1/4/2004	56	39	0.44
1/4/2004	57	36	0.29

Date	Max Temp (F)	Min Temp (F)	Rainfall (in)
1/5/2004	35	28	0.81
1/5/2004	36	29	1.08
1/5/2004	33	27	0.68
1/5/2004	40	33	1.25
1/5/2004	37	30	1.15

CONCLUSION

- ▶ Rain did occur between the hours of 10pm and Noon from January 4-5 2004
 - ▶ Based on Radar imagery and COOP Observation Sites
 - ▶ Temperatures were below freezing for much of that time
 - ▶ Based on hourly observations at Kbfd Airport
 - ▶ Approximately 1-1.5 inches of rain fell during the time frame
 - ▶ Based on COOP Observation Sites
 - ▶ Ice likely accumulated significantly on power lines
 - ▶ Based on ice reports from nearby stations.
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