

Central Ohio End of Ozone Season Report

CAC/TAC

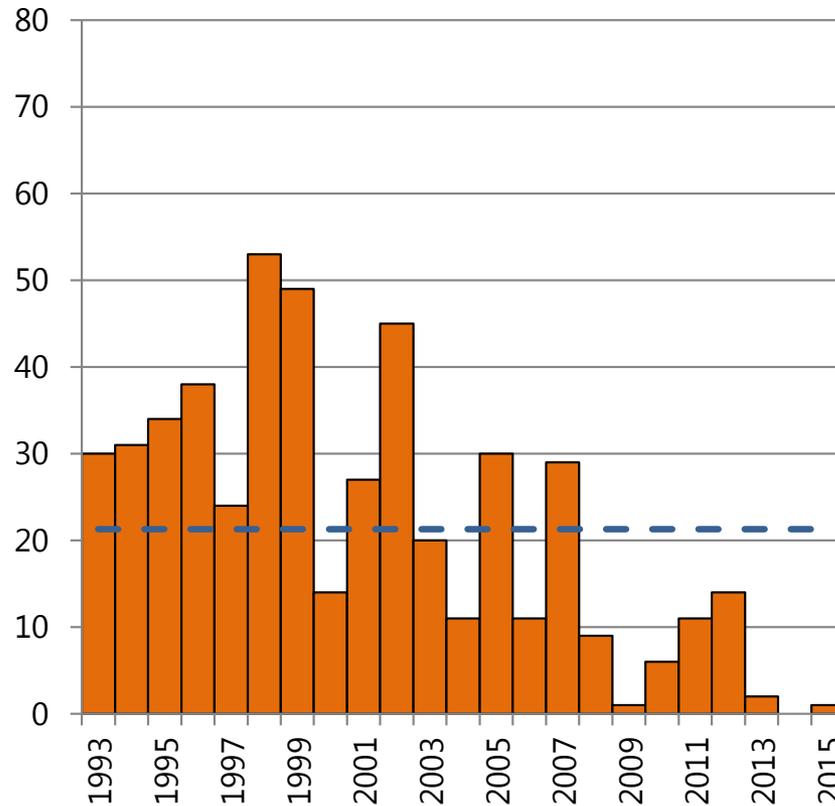
Nov. 30/Dec. 2 , 2015



Mid-Ohio Regional
Planning Commission

Unhealthy for Sensitive Groups Days by Year

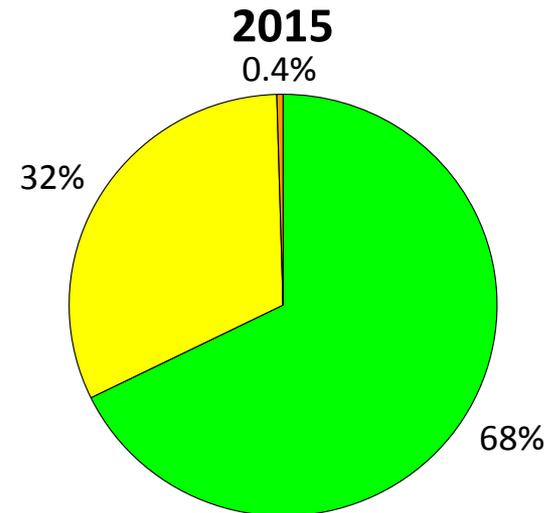
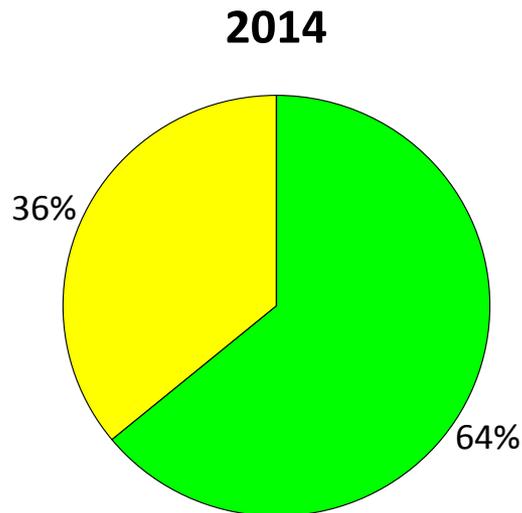
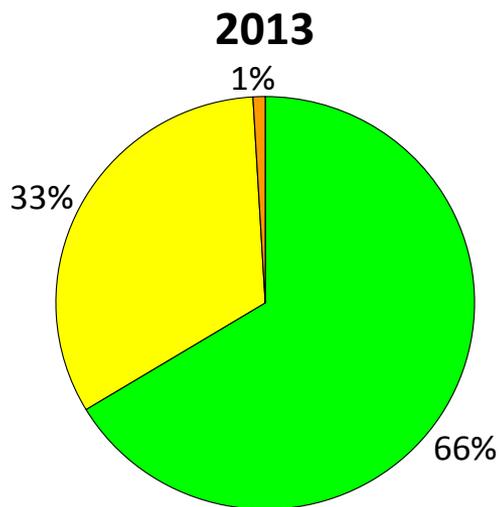
Columbus



Average: 21

Days at Each Air Quality Index (AQI) Level 2013-2015

April 1 through October 31 (ozone and PM_{2.5})

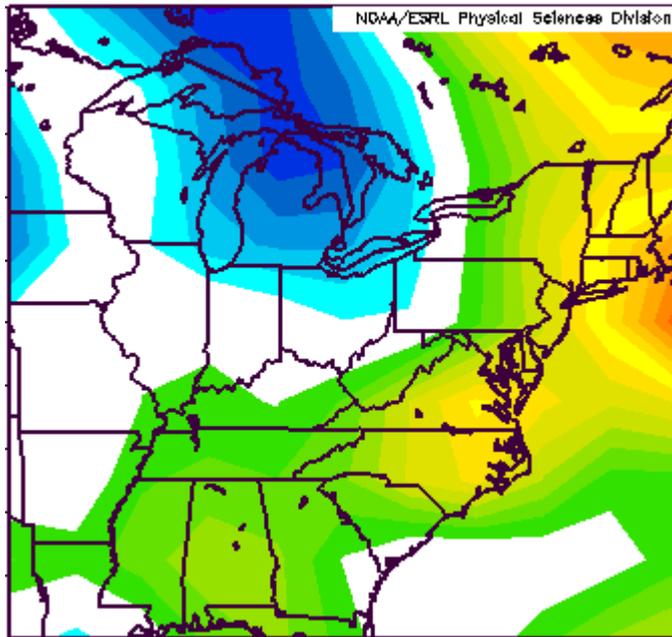


Overall, air quality conditions were very similar to those observed during the past two summers.

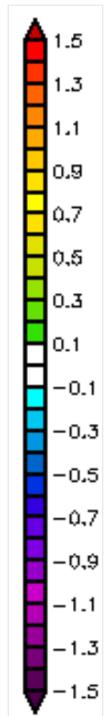
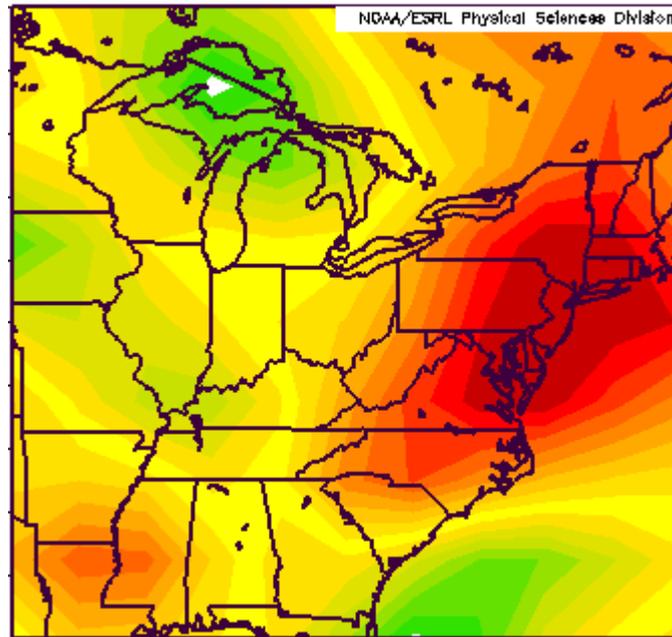
Comparing Air Quality and Weather Conditions in 2014 and 2015

Temperature Departure from Normal (°C)

May-Sept 2014



May-Sept 2015



Forecasted Air Quality Alert Days

Date	Next-Day Forecast	Same-Day Forecast	Observed AQI	Pollutant	Peak Monitor(s)
5/8/15	104	104	101	Ozone	Centerburg
7/29/15	104	104	87	Ozone	New Albany

May 8

- Weather conditions limited mixing in the atmosphere
- Record heat enhanced ozone formation
- Calm winds reduced pollutant dispersion

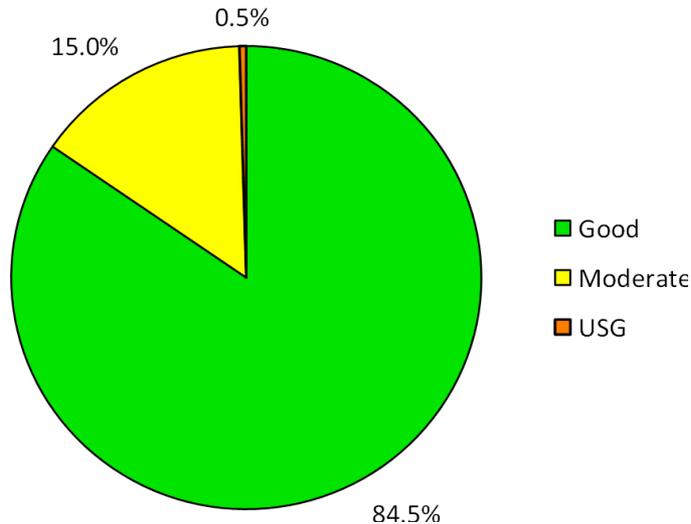
July 29

- Sunny skies and temperatures 10° F above-average aided ozone formation
- Light winds reduced dispersion
- Cold front arrived earlier than forecast, reducing ozone formation in the afternoon as winds strengthened and clouds increased

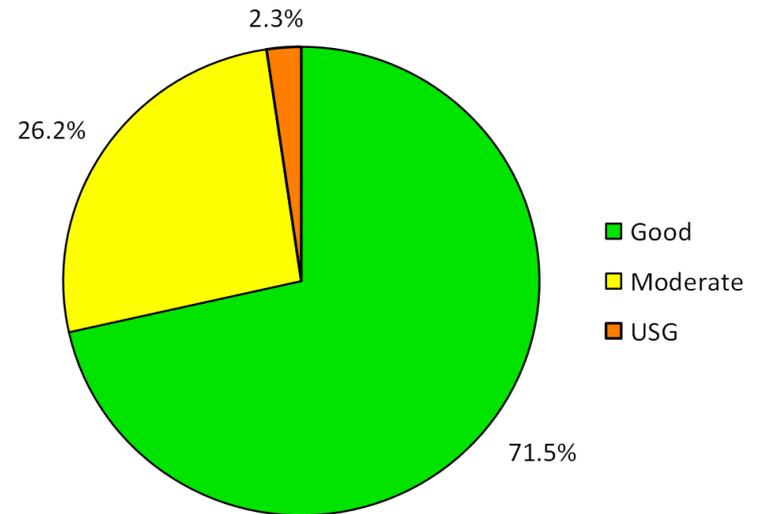
Impact of New Ozone Standard on AQI Distribution

- Locations will experience fewer Good AQI days and more Moderate and USG AQI days
- Air Quality Alert days may also become more common under the new thresholds

Ozone AQI Distribution, Summer 2015 (Existing Ozone Standard)



Ozone AQI Distribution, Summer 2015 (New Ozone Standard)





2015: High Ozone Days Using Current Standard - >75 ppb

April						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



2015: High Ozone Days Using New Standard - >70 ppb

April						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



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