Ozone
National Ambient Air Quality Standard
USEPA Proposed Revision

November 26, 2014

Why did EPA Propose to Change the Standard?

- Clean Air Act mandates a 5-year review cycle with last review in 2008.

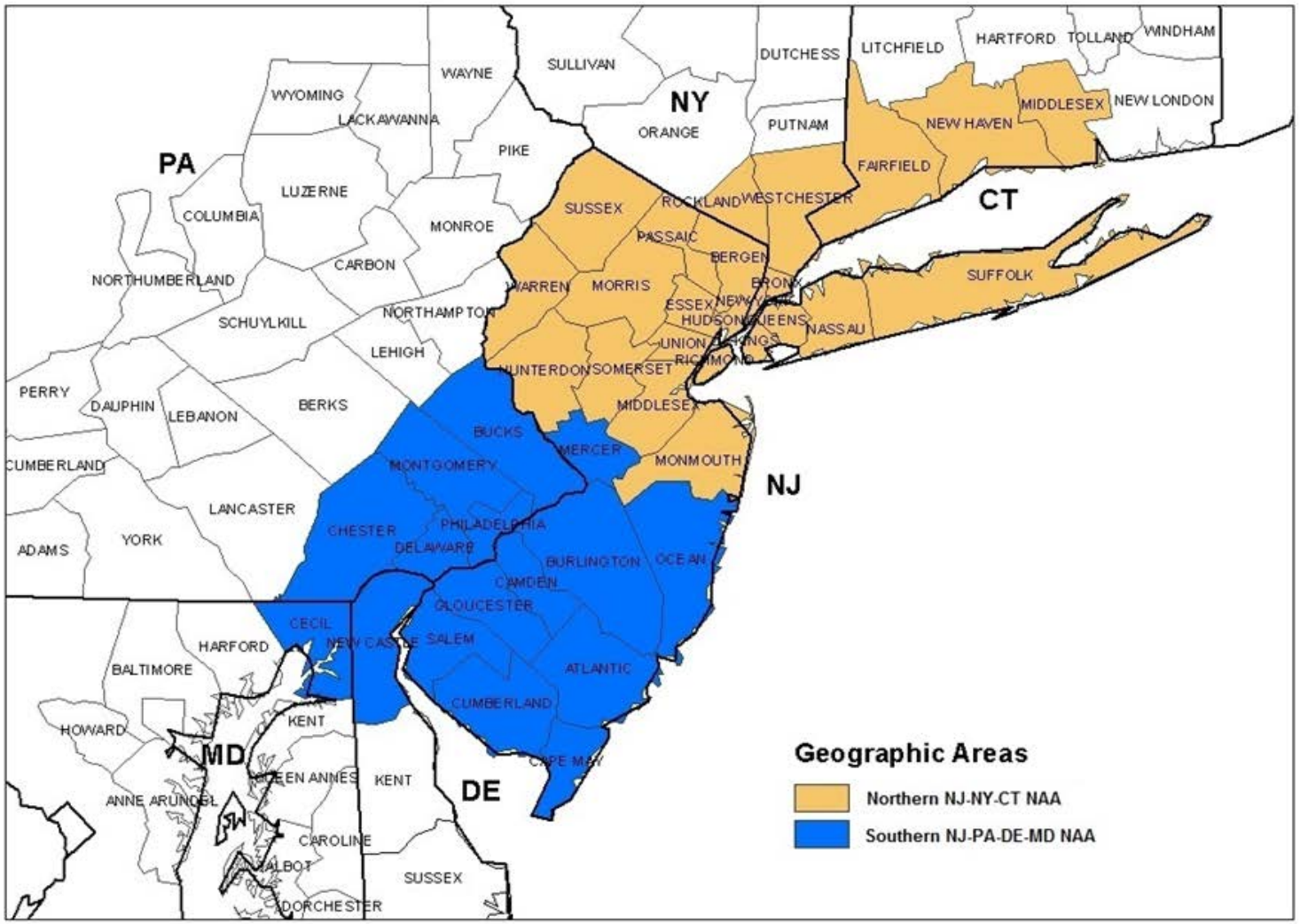
- Since the last review, more than 1,000 new studies show ozone's harmful effects on health and the environment including:

  - Respiratory system effects such as difficulty breathing and airway inflammation. For people with lung diseases such as asthma and COPD (chronic obstructive pulmonary disease), these effects can lead to emergency room visits and hospital admissions.
  - Ozone exposure likely causes premature death from lung or heart diseases.
  - Long-term exposure to ozone likely results in harmful respiratory effects, including respiratory symptoms and the development of asthma.

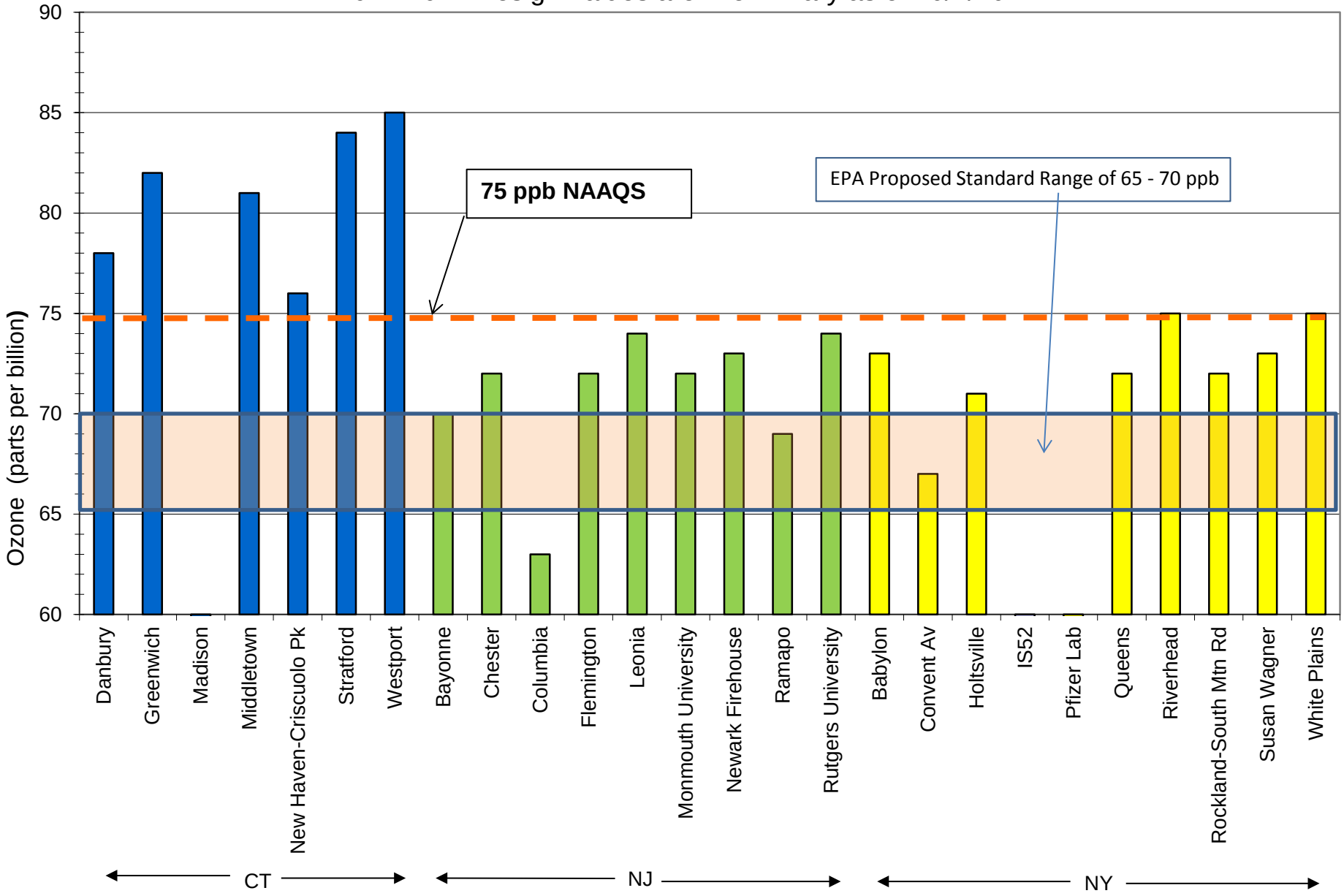
What Did EPA Propose?

- EPA proposing updates to both the primary ozone standard (public health) and the secondary standard (public welfare).
- Both standards would be 8-hour standards set within a range of 65 to 70 parts per billion (ppb).
- Current ozone primary standard is 75 ppb.
- EPA is seeking comment for primary standard as low as 60 ppb.

New Jersey's Multi-State Ozone Non-Attainment Areas for the 75 ppb NAAQS



Preliminary 8-hour Ozone Design Values 2012-2014
Northern New Jersey-CT-NY Nonattainment Area
2012-2014 Design Values are Preliminary as of 10/1/2014



Preliminary 8-hour Ozone Design Values 2012-2014
Southern New Jersey-DE-MD-PA Nonattainment Area
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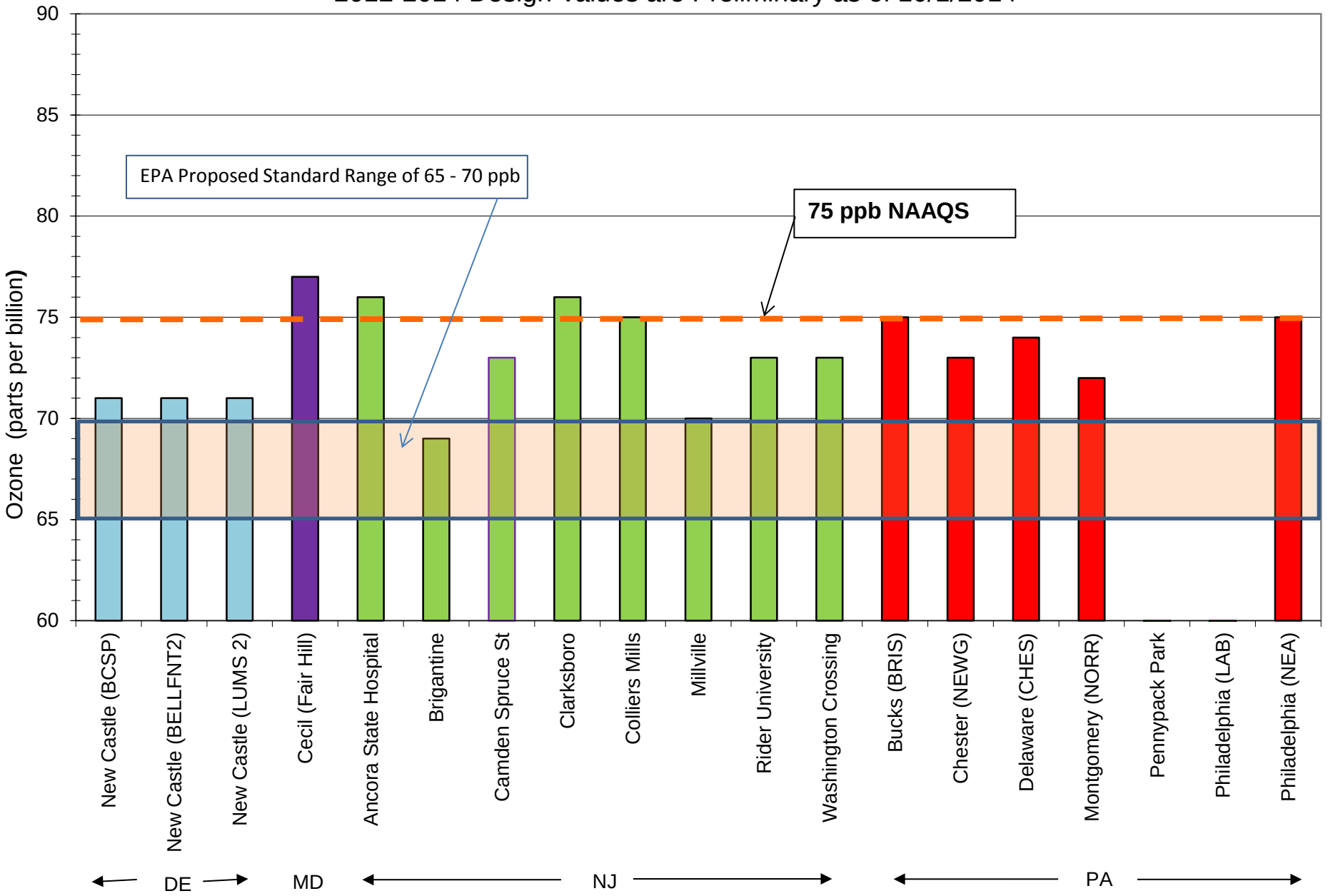
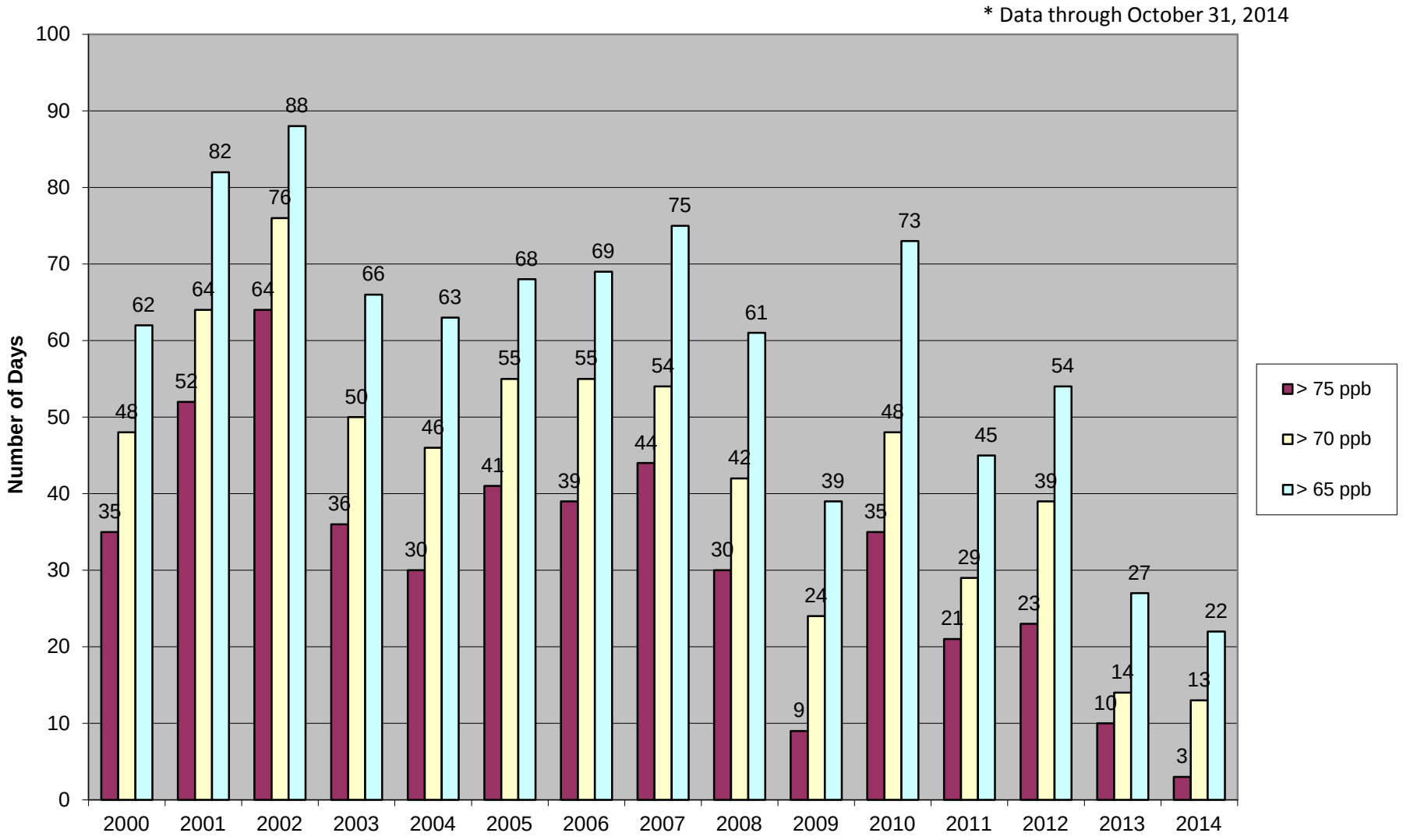


Comparison of Current and Proposed Ozone Standards
Number of Days Standard Exceeded in New Jersey
2000 - 2014*



Ozone Air Quality
Northern New Jersey – New York City – Long Island – Connecticut

		Air Quality Design Values			
State	Site Name	2013	Preliminary 2014		USEPA 2025 Projection
CT	Danbury	**81**	**78**		73
CT	Greenwich	**83**	**82**		
CT	Stratford	**89**	**84**		
CT	Westport	**87**	**85**		
CT	Madison	No Data	No Data		71
CT	New Haven-Criscuolo Pk	**78**	**76**		
CT	Middletown	**81**	**81**		65
NJ	Bayonne	72	70		63
NJ	Chester	**76**	72		NA
NJ	Columbia	66	63		NA
NJ	Flemington	**77**	72		62
NJ	Leonia	**77**	74		63
NJ	Ramapo	72	69		
NJ	Monmouth University	**78**	72		64
NJ	Newark Firehouse	**76**	73		63
NJ	Rutgers University	**79**	74		65
NY	Babylon	**81**	73		74
NY	Holtsville	**78**	71		
NY	Riverhead	**80**	75		
NY	Convent Av	72	67		63
NY	Pfizer Lab	74	No Data		63
NY	Queens	**79**	72		70
NY	Rockland-South Mtn Rd	74	72		61
NY	Susan Wagner	**78**	73		70
NY	White Plains	75	75		62

Ozone Air Quality
Southern New Jersey – Philadelphia – Delaware - Maryland

		Air Quality Design Values			
State	Site Name	2013	Preliminary 2014		USEPA 2025 Projection
DE	Kent (KILLENS)	74	72		NA
DE	New Castle (BCSP)	73	71		61
DE	New Castle (BELLFNT2)	**76**	71		
DE	New Castle (LUMS 2)	74	71		
DE	Sussex (LEWES)	**77**	74		63
DE	Sussex (SEAFORD)	75	70		
MD	Cecil (Fair Hill)	**82**	**77**		64
NJ	Ancora State Hospital	**81**	**76**		66
NJ	Camden Spruce St	No Data	73		
NJ	Brigantine	73	69		60
NJ	Clarksboro	**84**	**76**		67
NJ	Colliers Mills	**80**	75		66
NJ	Millville	70	70		NA
NJ	Rider University	**76**	73		63
NJ	Washington Crossing	**76**	73		
PA	Bucks (BRIS)	**78**	75		65
PA	Chester (NEWG)	**76**	73		NA
PA	Delaware (CHES)	**76**	74		60
PA	Montgomery (NORR)	74	72		61
PA	Pennypack Park	**81**	No Data		68
PA	Philadelphia (LAB)	61	57		
PA	Philadelphia (NEA)	**81**	75		

What measures are included in the 2025 analysis?

Existing and proposed federal rules, including:

- **Major Point Source Controls** including BART for RH, MATS, CAIR, Clean Power Rule (aka CSAPR), and Carbon Pollution Emission Guidelines for Existing Stationary Sources: EGU's,

- **Area Source Type rules** including Reciprocating Internal Combustion Engines (RICE) NESHAPs and Hospital/Medical/Infectious Waste Incinerators NSPS,

- **Mobile Source Controls** including Final Tier 3 Vehicle Emissions and Fuels Standards, C3 Oceangoing Vessels, Emissions Standards for Locomotives and Marine Compression-Ignition Engines, Control of Emissions for Non-road Spark Ignition Engines and Equipment , NOx Emission Standard for New Commercial Aircraft Engines, Clean Air Non-road Diesel Rule, Heavy Duty Diesel Rule, and the Light-Duty Vehicle Tier 2 Rule.

2015 Ozone NAAQS – DRAFT Regulatory Timeline

EPA Final Ozone NAAQS Promulgated

State Designation Recommendations due to EPA

EPA Final Designations And Classifications

110 (a) Infrastructure & Transport SIP

RACT SIP (OTR)

State Attainment Demonstration SIPs Due to EPA

Attainment Dates

Marginal: 2020

Moderate: 2023

Serious: 2026

Severe: 2032/34

Extreme: 2037