

Ozone Planning Update

DRCOG – Board of Directors

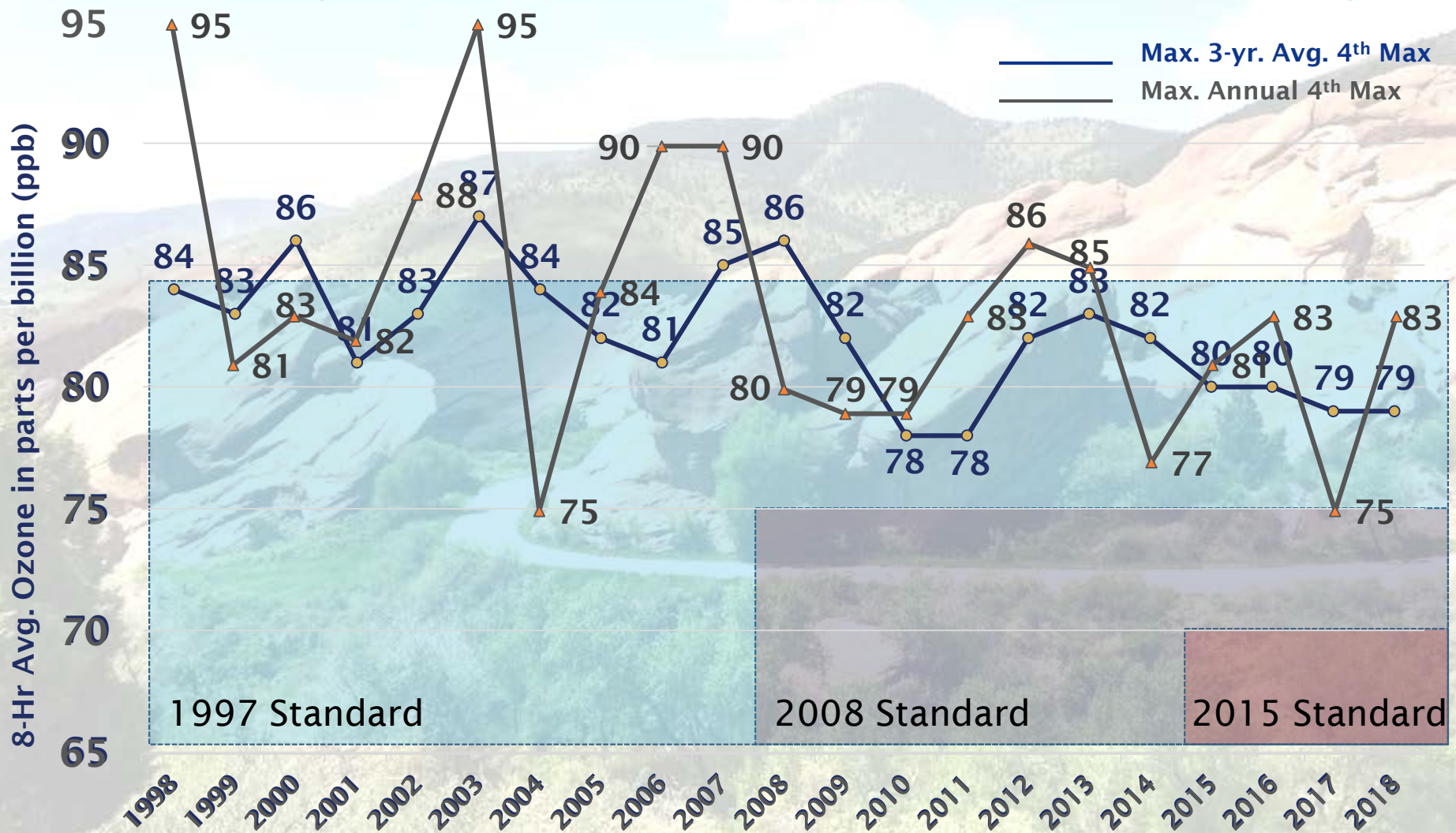
December 19, 2018

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Technical Program Manager**



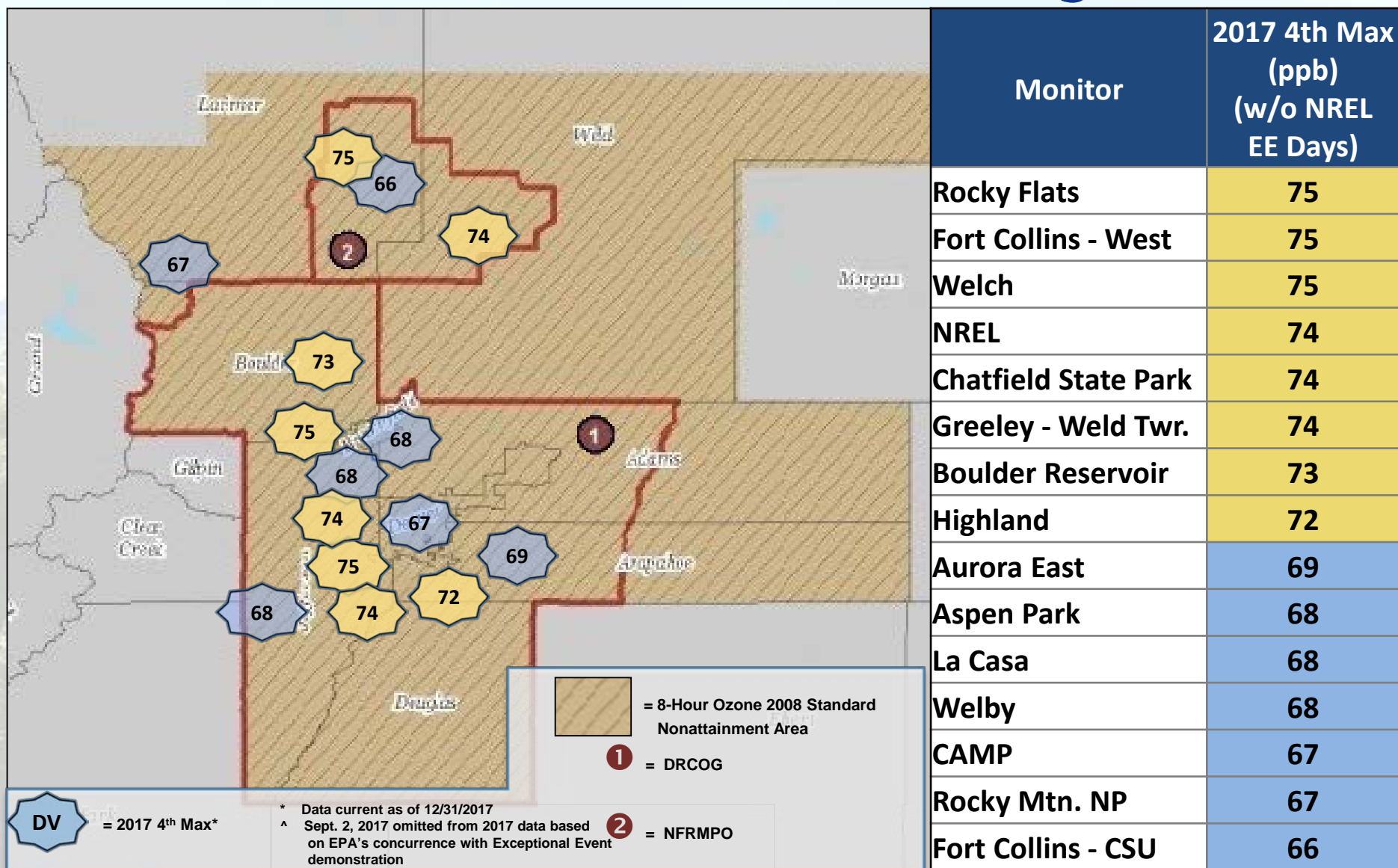
8-Hour Ozone Trends and Federal Standards

Annual Design Values in the Denver Metro/North Front Range

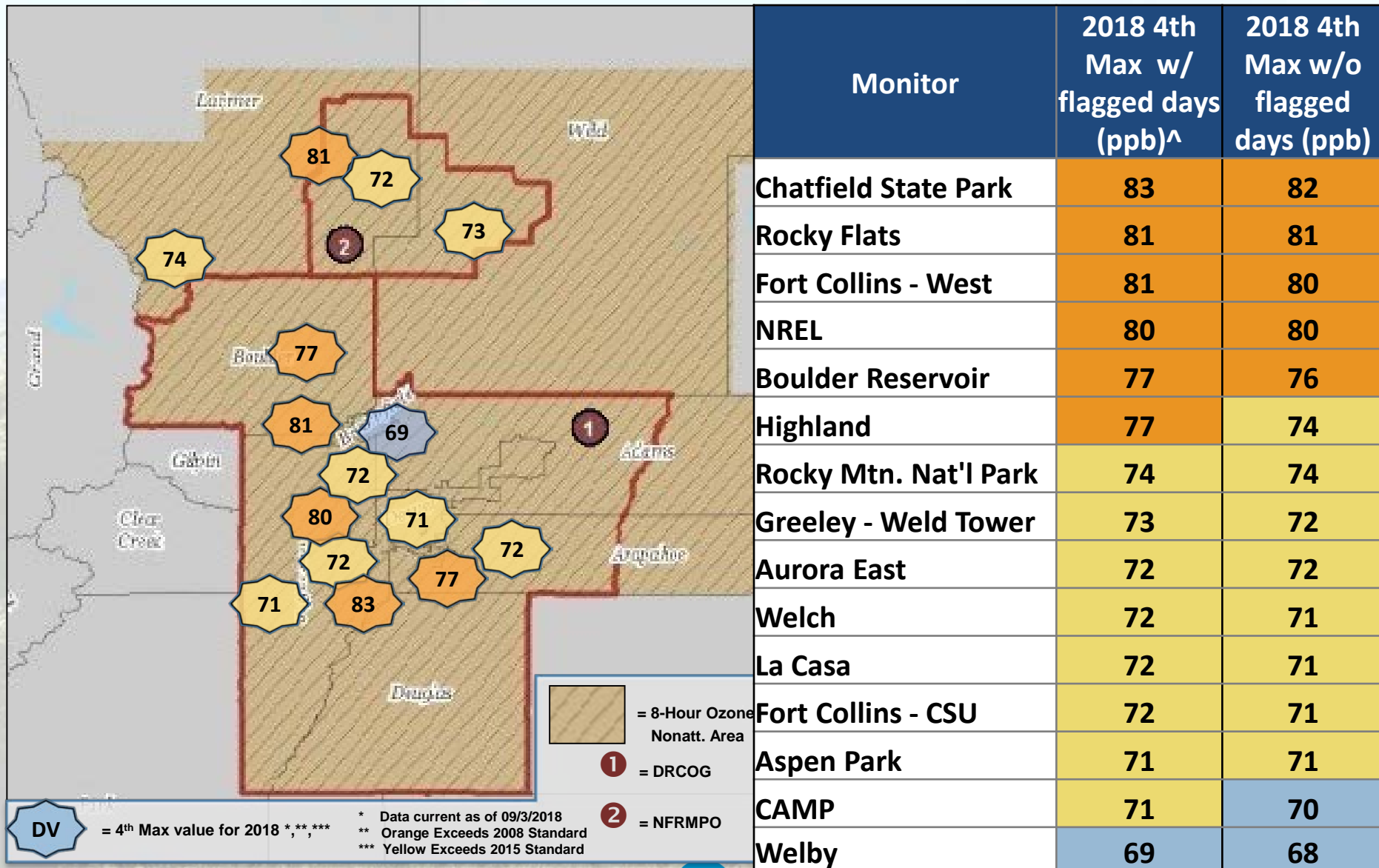


8-Hour Ozone Standard: Based on a three-year average of the annual fourth-highest daily 8-hour maximum ozone concentration. Current as of 9/4/18.










2017 4th Maximum 8-Hour Average Value



2018 4th-Maximum 8-Hour Ozone Values



Potential Paths for 2008 Ozone Standard (75 ppb) 2017 vs. 2018

		End of:	
		<u>2017</u>	<u>2018</u>
2008 NAAQS Planning	Exceptional Event Demonstration		
	Clean Data → 1-Year Extension		
	Revocation of 2008 NAAQS		
	179B Demonstration		
	Serious Area Reclassification		

Ozone Planning Timeline – 75 Standard

3-Year Average (Serious)

2018

Moderate
Att. Year*

2019

179B
Demo

&/or

Serious
Bump-Up

2020

Serious
SIP Due**

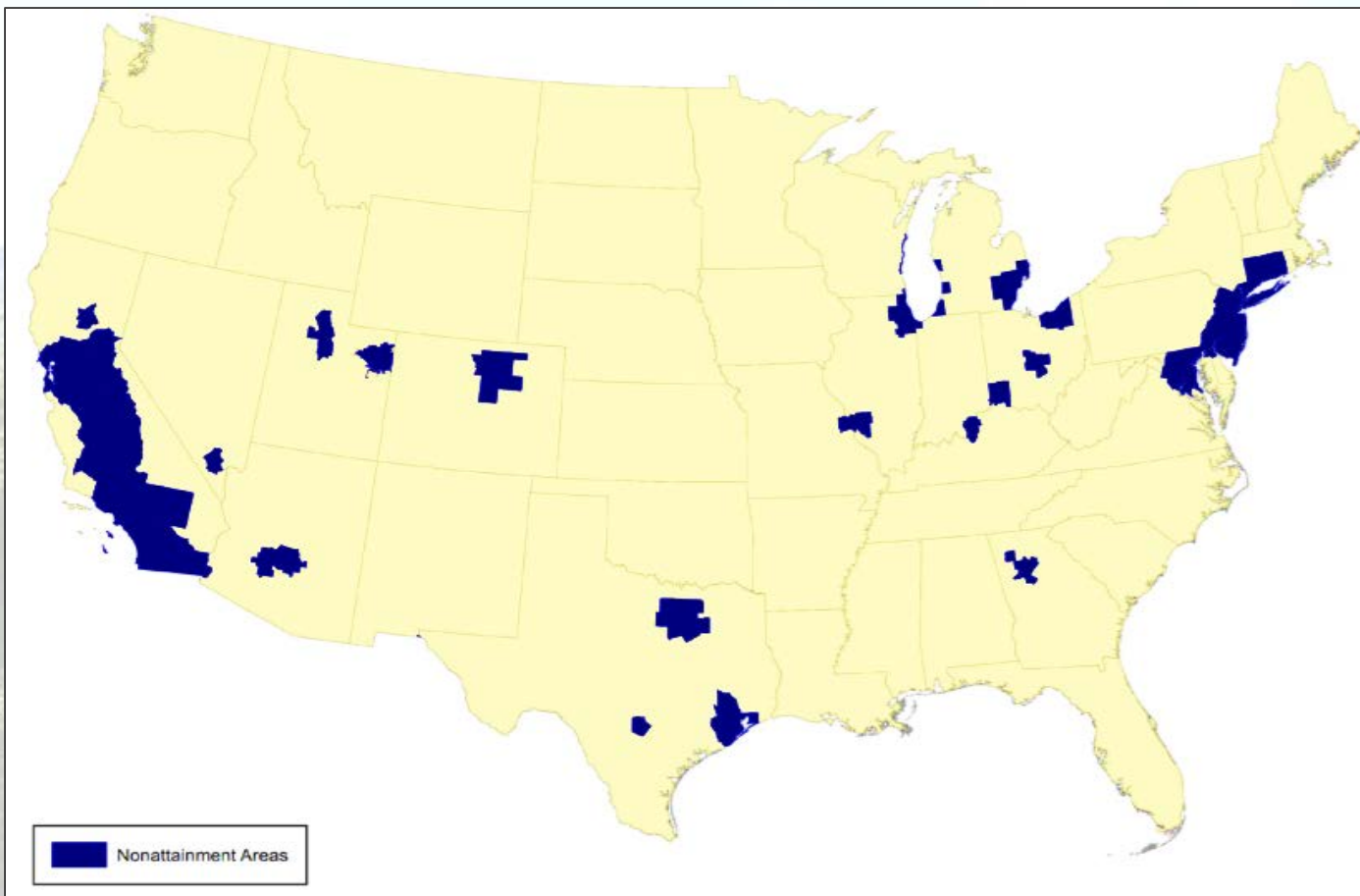
Serious
Att. Year

Strategy Evaluation and Implementation

* Assumes EPA approval of 1-year extension

** Assumes EPA sets SIP deadline in reclassification rule
as January of final attainment year (i.e. Jan. 2020)

2015 Ozone NAAQS (70 ppb)



Effective Date:
Aug. 3, 2018

52 Nonattainment Areas

41 Areas Classified as Marginal:
Includes Denver Metro/North Front Range Area

All but 1 area with a higher classification are in California

Marginal Attainment Date: Aug. 2021
(2018-2020 data)

Ozone Planning Timeline – 70 Standard 75 Standard



Strategy Evaluation and Implementation

* Assumes EPA approval of 1-year extension

** Assumes EPA sets SIP deadline in reclassification rule as January of final attainment year (i.e. Jan. 2020)

Next Steps – Ozone Planning

Modeling and Emissions Inventory Development

- Base and future year emissions inventory development for 2015 standard
- New base year modeling platform and future year modeling for 2015 standard
- Potential Serious Area SIP development including 2020 Attainment Demonstration modeling on 2011 platform
- “What if” photochemical modeling scenarios to evaluate strategies
- Analysis of impact of international emissions

Strategy Analyses

- Low Reid Vapor Pressure (RVP) gasoline fuels study
- Low Emission Vehicles (LEV)/Zero Emission Vehicles (ZEV) standards
- Commercial lawn and garden equipment
- Low-volatile organic compounds (VOC) architectural and industrial maintenance (AIM) coatings and consumer products
- Additional oil and gas and stationary source control options

Funding Needs

	DRCOG (FY16-19)	DRCOG (FY20-23)	NFRMPO (FY22)	CDPHE (FY20-22)	RAQC	TOTAL
Current Funding Available	\$263,000	\$0	\$0	\$25,000	\$19,000	\$307,000
Anticipated Funding	\$0	\$215,000	\$25,000	\$118,000	\$0	\$358,000
TOTALS	\$263,000	\$215,000	\$25,000	\$143,000	\$19,000	\$665,000

	DRCOG (FY16-19)	DRCOG (FY20-23)	NFRMPO (FY22)	CDPHE (FY20-22)	RAQC	TOTAL
75 ppb Standard	\$28,000	\$53,000	\$0	\$75,000	\$19,000	\$175,000
70 ppb Standard	\$235,000	\$162,000	\$25,000	\$68,000	\$0	\$490,000
TOTALS	\$263,000	\$215,000	\$25,000	\$143,000	\$19,000	\$665,000

	DRCOG (FY16-19)	DRCOG (FY20-23)	NFRMPO (FY22)	CDPHE (FY20-22)	RAQC	TOTAL
75 ppb-by end of 2019	\$28,000	\$53,000	\$0	\$75,000	\$19,000	\$175,000
70 ppb-by end of 2019	\$235,000	\$72,000	\$0	\$0	\$0	\$307,000
Subtotal	\$263,000	\$125,000	\$0	\$75,000	\$19,000	\$482,000
70 ppb- in 2020+	\$0	\$90,000	\$25,000	\$68,000	\$0	\$183,000
TOTALS	\$263,000	\$215,000	\$25,000	\$143,000	\$19,000	\$665,000

Requesting \$125K advanced to 2019; FY20-23 funds reduced to \$475K.

Contact Information

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