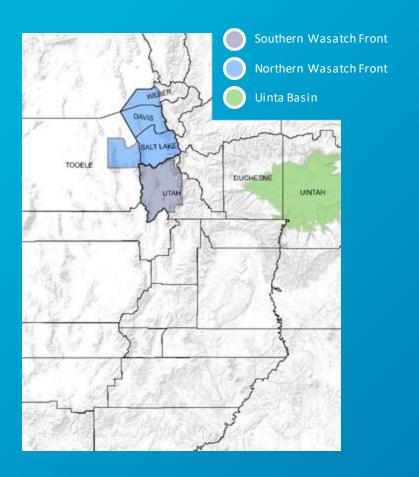


Sheila Vance



Ozone Nonattainment Areas



Ozone

3 NAA in Utah for 2015 NAAQS at 70 ppb

Status

NWF: Moderate

SWF: Marginal/Attained standard by

attainment date

UB: Marginal/Second 1-year extension

submitted

Uintah Basin

Regulatory Status

- Marginal Classification
- Did not attain by August 2021
- Met requirements for extension requests
- DAAD approved 1st year extension





Regulatory Status

- Orginally Marginal Classification
- Did not attain by August 2021
- DAAD bumped up to Moderate
 Classification



Unique Geography

Cold air inversion

Snow on ground reflects sunlight

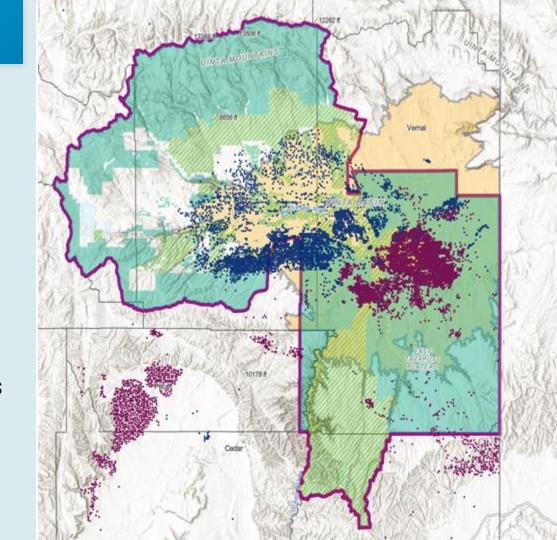
Rural area with dense oil and gas exploration & production

Uintah Basin

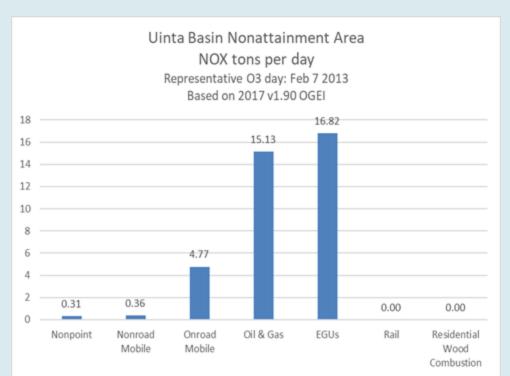
Complex Jurisdiction

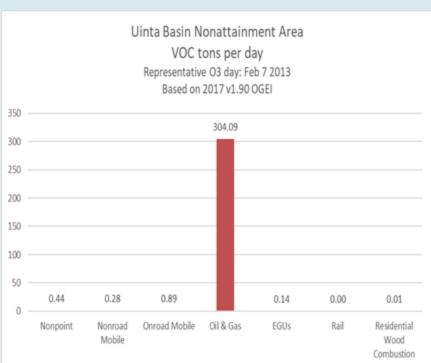
NAA shared between EPA, Ute Tribe and Utah Division Air Quality

Different regulatory requirements between agencies

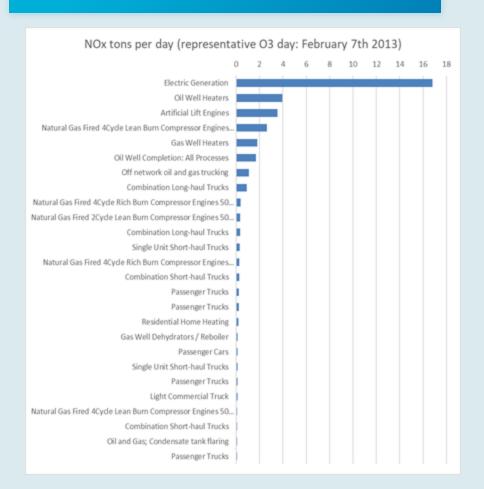


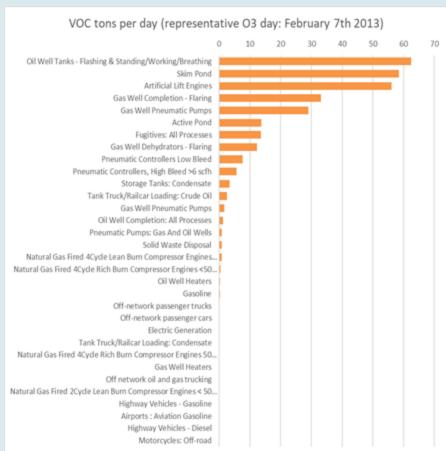
UB 2017 Inventory





UB 2017 Inventory



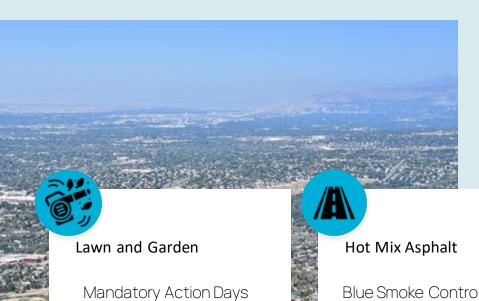


Uintah Basin



Oil and Gas Rules

- Proposed lower threshold for tank controls on oil tanks
- Equated throughput to 4 tpy BACT for tank controls, lowered from 8,000 bbls to 3,200 bbls
- Removed AO exclusions from PBR
- AQB did not approve for final rulemaking
- Working with Industry on pressurized liquid sampling protocol and reviewing recent sampling results and will re-propose rules
- Engines large source of reactive VOCs, evaluating better management and controls



2-stroke equipment only

NWF Proposed Rules



Boilers

2-5 MMBtu 5+ MMBtu

Blue Smoke Controls VOC Tank Controls

Lawn & Garden

- Only on Mandatory Action Days (Predicted $O_3 > 70$ ppb)
 - Average 41 Mandatory Action Days per O₃ season
- Only 2-stroke gas powered equipment
 - Leaf blowers, string trimmers, tillers, hedge trimmers, and chainsaws (<6hp)
 - Does not include lawn mowers or other 4-stroke equipment
 - Zero emission equipment is exempt
- Accounts for ~3 tpd of VOC emissions
- Only apply to NWF counties: Davis, Weber, Tooele and Salt Lake County
- Will not impact the sale of this equipment
- Hope to pair a large incentive program with this especially as it impacts small businesses

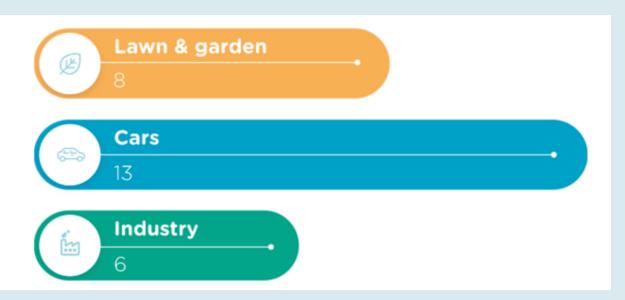


Lawn & Garden

VOC EMISSIONS

TONS PER DAY for the N. WASATCH FRONT

Lawn and garden equipment contribute a significant amount of pollution to our air.





Hot Mix Asphalt (HMA)

- Require HMA facilities to install:
 - Blue Smoke Controls on HMA plant:
 Drums, conveyors, silos and loading facilities
 - VOC Controls on stationary oil tanks
- ~0.55 tpd VOC emission reduction
- Will apply to stationary plants only
- NWF counties: Davis, Weber, Tooele and Salt Lake counties





Boilers

- Will be separated into two rules:
- 2 5 MMBtu natural gas boilers
 - New purchases and burner replacements only
 - Does not require replacements or retrofits for any existing equipment
 - Sets standard at 9 ppmv
 - 1,614 boilers in the NWF NAA account for 4.2 tpd NO_x emissions
 - Rule will result in a reduction of 3.7 tpd of NO_x from these boilers
- 5+ MMBtu natural gas boilers
 - New purchases and burner replacements only
 - Also sets the standard at 9 ppmv
 - 519 boilers in the NAA account for 4.3 tpd NO_x emissions
 - Rule will result in a reduction of 3.1 tpd of NO_x from these boilers
- Long implementation timeline since the life of equipment can be long
- NWF counties: Davis, Weber, Tooele and Salt Lake County



NWF Inventories

RFP for the NWF NAA is ~10.5 tpd of VOCs for this round of SIP planning

VOC emission reductions from planned rules is ~3.5 tpd

NWF 2017 vs 2023 VOC Emissions

