

City of Alexandria, Virginia

Winter Weather Preparation- Update

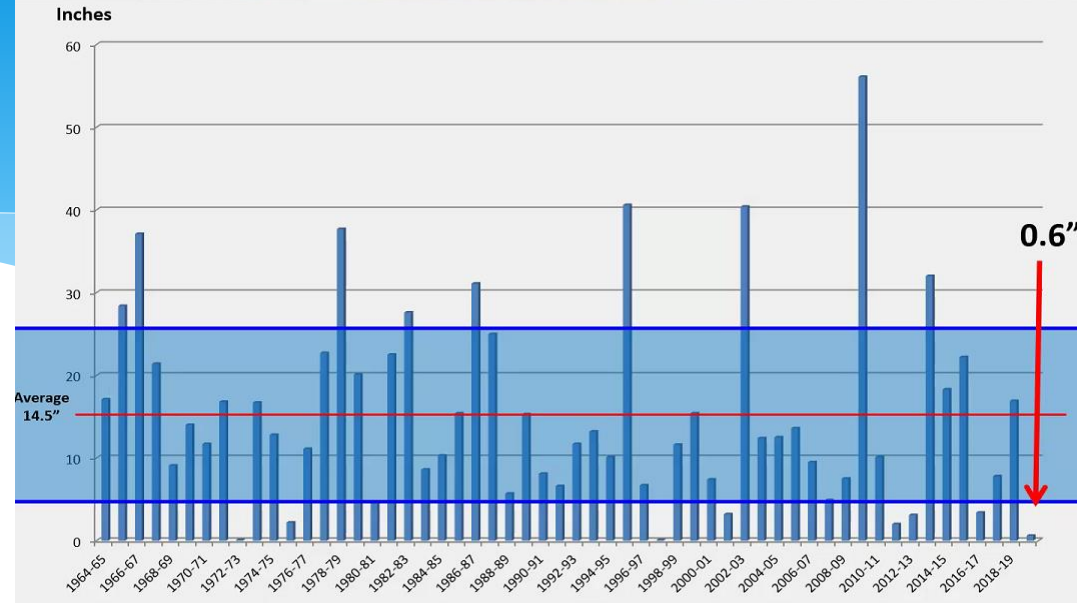
12/8/2020



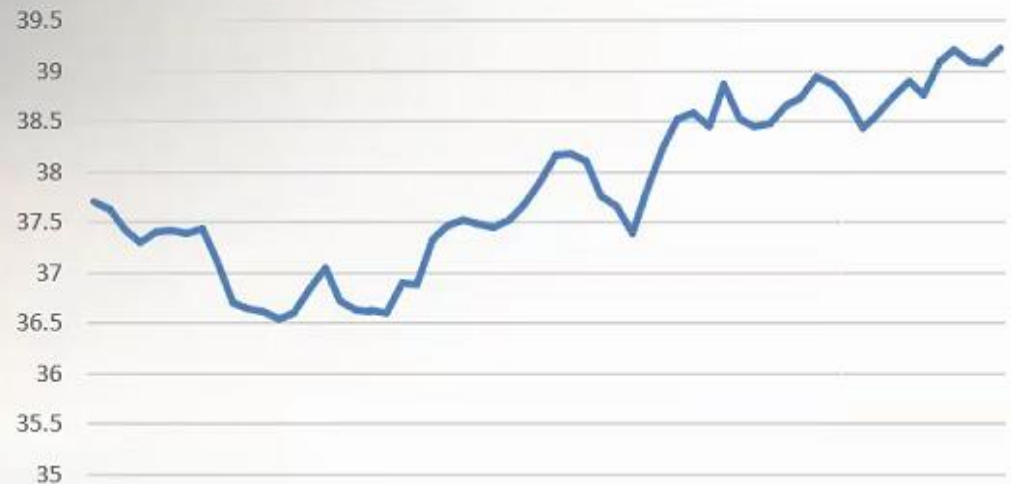
Historical Winter Conditions

- Average Winter Precipitation 14.5 inches
- Average Winter Temperature of 39.3 degrees
- Typically mobilize snow and ice control team 8 times in an average season
- Average Annual Snow and Ice response cost \$862,000

DCA Annual Winter Snowfall



DCA Winter Temperature 20-yr rolling average (1941-2020)

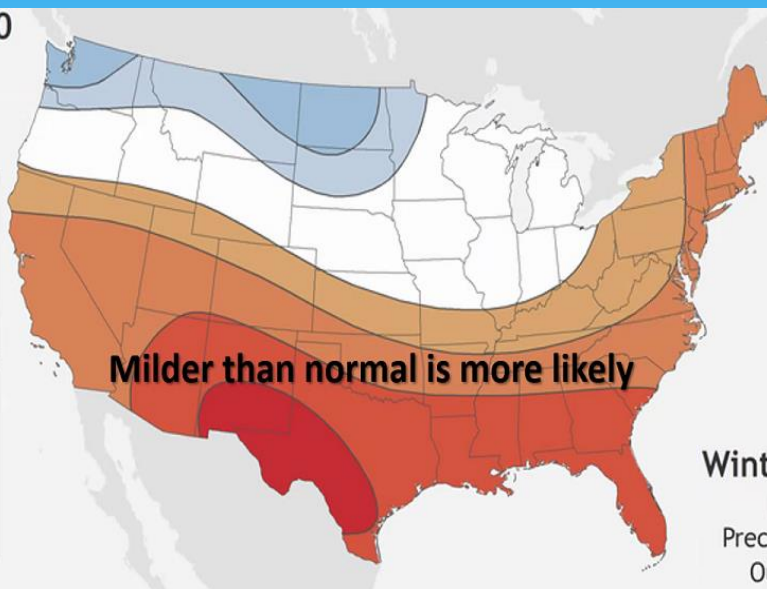




Anticipated Winter Conditions

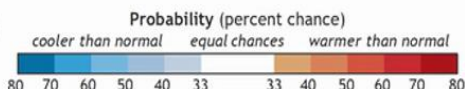
Winter 2020

U.S. Temperature Outlook



Milder than normal is more likely

Temperature Outlook
for December 2020 – February 2021
Issued 15 October 2020



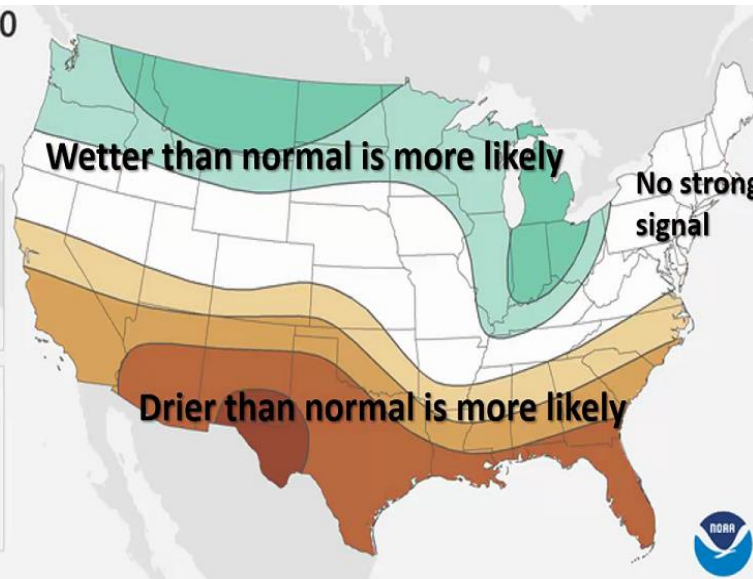
NWS Climate Prediction
Map by NOAA

- Anticipated Milder Temperatures
- Fewer Arctic Outbreaks
- Lesser chance of long-lasting cold

- No strong signals on Precipitation

Winter 2020

U.S. Precipitation Outlook

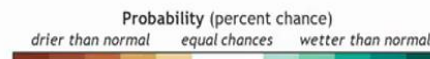


Wetter than normal is more likely

**No strong
signal**

Drier than normal is more likely

Precipitation Outlook
for December 2020 – February 2021
Issued 15 October 2020



NWS Climate Prediction Center
Map by NOAA Climate.gov

Unified, Objective Response



- 561 lane miles of roadway, 20 miles of publicly owned sidewalk and 44 acres of municipal parking lots/squares
- Approximately 60 City & contractor trucks
- Prioritized System
- Multiple departments with 100+ staff
 - T&ES
 - RPCA
 - General Services



Highlights of 2020/2021 Winter Preparation



- Citywide coordination meeting held in November
- ACPS coordination meeting held in November
- Equipment and technology updates completed
- Staff participated in regional COG Snow Coordination Meeting
 - NWS winter weather projection
- Mock snow event and staff training in November
- Enhancements to pre- treatment program
 - New dedicated large brine truck
 - New less corrosive brine system for concrete surfaces



Pretreatment Program

- Crews treat primary routes, bridges, overpasses, and hills 24+ Hours before storm
- Expanding to critical pedestrian routes this winter
- Great success..... when the weather cooperates!
- Very efficient and economical- crews can treat all primary routes, bridges, overpasses, and hills for less than \$3,000 per event.
- Friday treatment will occur as long as no rain is forecasted for the weekend
- Pre- wetting of salt



Updates for 2020/2021 Winter Season



- Contingency planning for COVID impacts to internal and contractor personnel
- Continued improvements in management of external resources
- Extended use of brine in advance of storms
- Upgraded AVL system and internal dashboard tool
- Regional task force- salt usage best practices in advance of upcoming DEQ regulations

A photograph of a residential street completely covered in snow. Bare trees line both sides of the road, their branches heavily laden with snow. Several cars are parked along the street, also covered in a thick layer of snow. The scene is quiet and wintry.

Questions