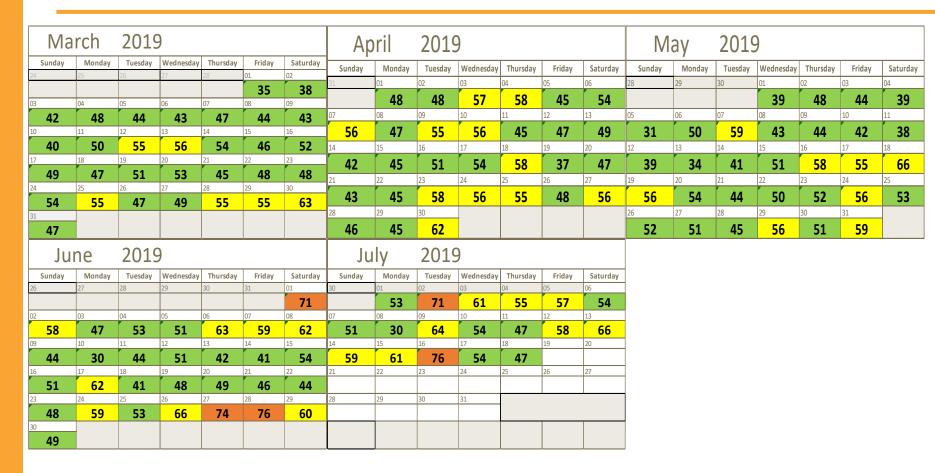
OZONE SEASON SUMMARY 2019

Glenna Tinney

ACPAC July 22, 2019



Peak 8-Hour Average Ozone Levels (ppb)



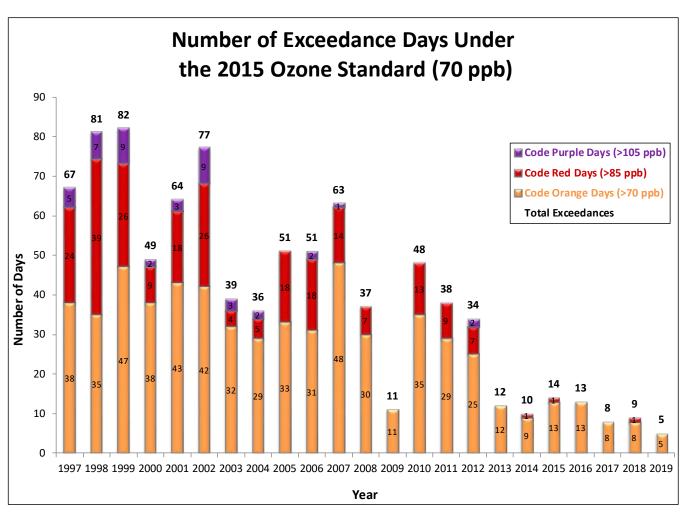
5 Code Orange Day, 41 Code Yellow Days, 94 Code Green Days



2019 Ozone Exceedances

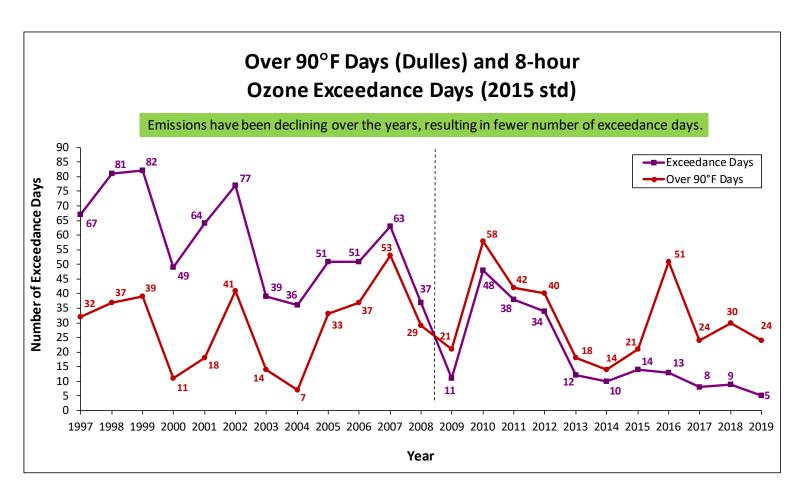
| Date | Monitors Exceeding | Highest Monitor | 8-Hr Max (ppb) |
|------|-----------------------|--------------------|-------------------|
| 6/1 | 1 | Franconia | 71 |
| 6/27 | 2 | Arlington | 74 |
| 6/28 | 2 | Beltsville | 76 |
| 7/2 | 1 | Beltsville | 71 |
| 7/16 | 4 | Beltsville | 76 |

Ozone Exceedance Trend



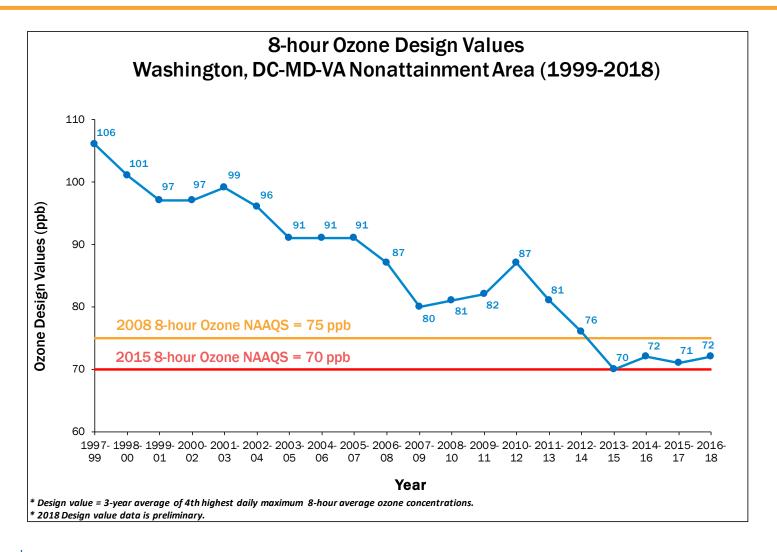


Ozone & Temperature Trend





Ozone Design Value Trend





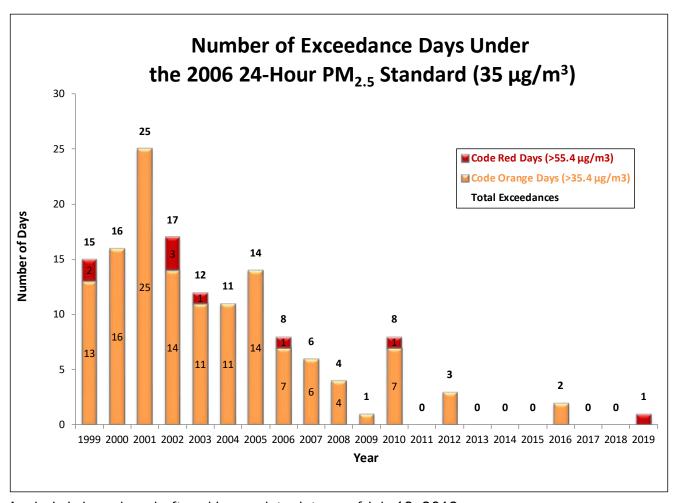
24-Hour Average PM2.5 Levels (µg/m³)

| | | | | | | | | | | | | | | 1 | | | | | | |
|---------------------------------------|---------------------------------------|---|--|--|--------------------------------------|---|--------------------------------|------------------------------------|---|--------------------------------------|----------------------------------|--------------------|--------------------------|--------|--------|---------|-----------|----------|--------|----------|
| M | arch | 2019 | 9 | | | | Ар | ril | 2019 | 9 | | | | M | ay | 2019 | 9 | | | |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| 24 | 25 | 26 | 27 | 28 | 01 | 02 | 31 | 01 | 02 | 03 | 04 | 05 | 06 | 28 | 29 | 30 | 01 | 02 | 03 | 04 |
| 02 | 04 | 05 | 06 | 07 | 11.3 | 12.2 | | 5.7 | 8.9 | 8.8 | 12.1 | 9.4 | 12.8 | | | | 10.6 | 14.2 | 13.7 | 23.0 |
| 12.0 | 0.1 | 7 | 9.4 | | 15.6 | | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| 12.9 | 9.5 | 7.4 | 13 | 10.2 | 15.0 | 16.1 | 11.5 | 9.4 | 7.0 | 7.9 | 5.0 | 8.1 | 7.3 | 8.7 | 3.8 | 7.6 | 10.5 | 6.7 | 6.6 | 7.0 |
| 9.9 | 4.3 | 8.0 | 12.4 | 9.0 | 8.9 | 4.4 | 11.5 | 15 | 16 | 17 | 18 | 19 | 20 | 12 | 13 | 14 | 15 | | 17 | 18 |
| 17 | 18 | 19 | | | 22 | 23 | 7 1 | | | | V | | 7 | 7 | V | 7 | _ | | , | |
| 5.2 | 9.0 | 9.0 | 12.6 | 4.7 | 5.0 | 4.6 | 7.1 | 3.5 | 4.8 | 6.2 | 10.0 | 9.5 | 4.6 | 2.4 | 3.0 | 3.8 | 6.9 | 16.1 | 13.0 | 15.8 |
| 24 | 25 | 26 | | 28 | 29 | 30 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 6.0 | 11.0 | 4.2 | 6.3 | 9.0 | 10.9 | 15.0 | 3.7 | 5.4 | 9.2 | 7.0 | 10.3 | 8.4 | 4.8 | 15.1 | 10.8 | 4.9 | 6.5 | 12.0 | 19.1 | 9.5 |
| 31 | | | | | | | 28 | 29 | 30 | | | | | 26 | 27 | 28 | 29 | | 31 | |
| 10.2 | | | | | | | 5.7 | 5.2 | 13.0 | | | | | 15.8 | 13.0 | 13.3 | 13.5 | 8.1 | 7.6 | |
| | | | | | | | | | • | | | | | | | | | | | |
| _ | ıne | 2019 |) | ļ | | | Ju | | 2019 |) | | | | | | | | | | |
| _ | Ine | | Wednesday | Thursday | Friday | Saturday | | | | Wednesday | Thursday | Friday | Saturday | | | | | | | |
| Ju | | Tuesday | | | Friday | 01 | Ju | Monday | 2019 Tuesday | Wednesday 03 | 04 | 05 | 06 | | | | | | | |
| Ju | Monday 27 | Tuesday | Wednesday 29 | 30 | 31 | | Ju | ly | 2019 Tuesday 02 16.0 | Wednesday 03 10.8 | 67.5 | - | 20.2 | | | | | | | |
| Sunday 26 | Monday 27 03 | Tuesday 28 | Wednesday 29 05 | 30 | 07 | 12.0 08 | Sunday 30 07 | Monday 01 6.7 08 | 2019 Tuesday 02 16.0 | 03 10.8 10 | 67.5 11 | 27.0 | 20.2 | | | | | | | |
| Ju | Monday 27 03 5.8 | Tuesday 28 04 6.6 | 29 05 28.9 | 30 06 30.6 | 07 14.9 | 12.0 08 9.5 | Ju | Monday | 2019 Tuesday 02 16.0 09 | Wednesday 03 10.8 | 67.5 11 11.0 | 05 | 20.2 13 14.0 | | | | 1 | | | |
| Sunday 26 02 15.1 | Monday 27 03 5.8 | Tuesday 28 04 6.6 | Wednesday 29 05 28.9 | 30 06 30.6 | 07 14.9 | 12.0 08 9.5 | Sunday 30 07 11.1 | Wonday 01 6.7 08 14.2 15 | 2019 Tuesday 02 16.0 09 17.4 | Wednesday 03 10.8 10 17.2 | 67.5 11 11.0 | 27.0 | 20.2 | | , | | | | | |
| Sunday 26 | Monday 27 03 5.8 | Tuesday 28 04 6.6 | 05 28.9 12 7.1 | 30 06 30.6 13 4.9 | 07 14.9 | 12.0 08 9.5 15 7.7 | Sunday 30 07 11.1 | Monday 01 6.7 08 14.2 | 2019 Tuesday 02 16.0 09 | Wednesday 03 10.8 10 17.2 17 17.7 | 67.5 11 11.0 | 27.0 | 20.2 13 14.0 | | | | | | | |
| Sunday 26 02 15.1 09 7.7 | 03 5.8 10 6.2 | 7uesday 28 04 6.6 11 4.6 18 | 29 05 28.9 12 7.1 | 30.6 30.6 13 4.9 | 07 14.9 14 4.9 | 9.5 15 7.7 | Sunday 07 11.1 14 15.2 | Monday 01 6.7 08 14.2 15 13.6 | Tuesday 02 16.0 09 17.4 16 18.3 | Wednesday 03 10.8 10 17.2 17 17.7 | 67.5 11 11.0 18 13.0 | 27.0 12 10.6 | 20.2 13 14.0 20 | | | | | | | |
| Sunday 26 02 15.1 | Monday 27 03 5.8 10 6.2 | 7uesday 28 04 6.6 11 4.6 | 05 28.9 12 7.1 | 30 06 30.6 13 4.9 | 07 14.9 14 4.9 | 12.0 08 9.5 15 7.7 | Sunday 07 11.1 14 15.2 | Monday 01 6.7 08 14.2 15 13.6 | Tuesday 02 16.0 09 17.4 16 18.3 | Wednesday 03 10.8 10 17.2 17 17.7 | 67.5 11 11.0 18 13.0 | 27.0 12 10.6 | 20.2 13 14.0 20 | | | | | | | |
| Sunday 26 02 15.1 09 7.7 | 03 5.8 10 6.2 | 7uesday 28 04 6.6 11 4.6 18 9.2 | 05 28.9 12 7.1 19 | 30.6 30.6 13 4.9 20 | 07 14.9 14 4.9 21 5.7 | 9.5 15 7.7 | Sunday 00 11.1 14 15.2 21 | Monday 01 6.7 08 14.2 15 13.6 22 | 2019 Tuesday 02 16.0 09 17.4 16 18.3 23 | Wednesday 03 10.8 10 17.2 17 17.7 24 | 67.5 11 11.0 18 13.0 | 27.0 12 10.6 | 20.2 13 14.0 20 | | | | | | | |
| Sunday 26 15.1 09 7.7 16 13.1 23 7.4 | Monday 27 03 5.8 10 6.2 17 10.9 | 7uesday 28 04 6.6 11 4.6 18 9.2 | 05 28.9 12 7.1 19 8.6 26 | 30.6 30.6 13 4.9 20 9.5 | 07 14.9 14 4.9 21 5.7 | 01 12.0 08 9.5 15 7.7 22 5.5 | Sunday 00 11.1 14 15.2 21 | Monday 01 6.7 08 14.2 15 13.6 22 | 2019 Tuesday 02 16.0 09 17.4 16 18.3 23 | Wednesday 03 10.8 10 17.2 17 17.7 24 | 67.5 11 11.0 18 13.0 | 27.0 12 10.6 | 20.2 13 14.0 20 | | | | | | | |
| Sunday 26 15.1 09 7.7 16 13.1 23 7.4 | Monday 27 03 5.8 10 6.2 17 10.9 | 7uesday 28 04 6.6 11 4.6 18 9.2 | 05 28.9 12 7.1 19 8.6 26 | 30.6 30.6 13 4.9 20 9.5 | 07 14.9 14 4.9 21 5.7 | 01 12.0 08 9.5 15 7.7 22 5.5 | Sunday 00 11.1 14 15.2 21 | Monday 01 6.7 08 14.2 15 13.6 22 | 2019 Tuesday 02 16.0 09 17.4 16 18.3 23 | Wednesday 03 10.8 10 17.2 17 17.7 24 | 67.5 11 11.0 18 13.0 | 27.0 12 10.6 | 20.2 13 14.0 20 | | | | | | | |

1 Code Red, 41 Code Yellow Days, 98 Code Green Days

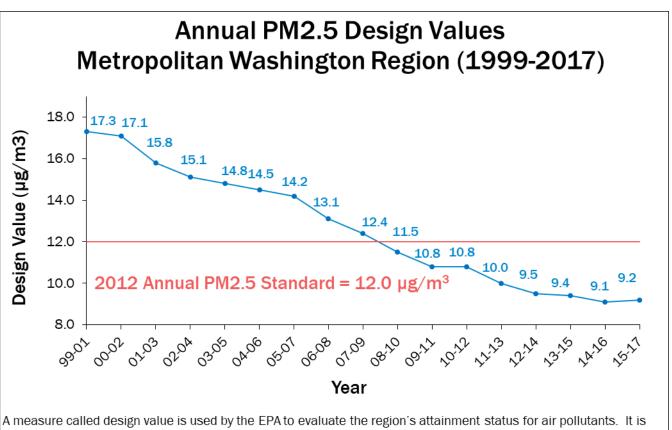


PM2.5 Exceedance Trend





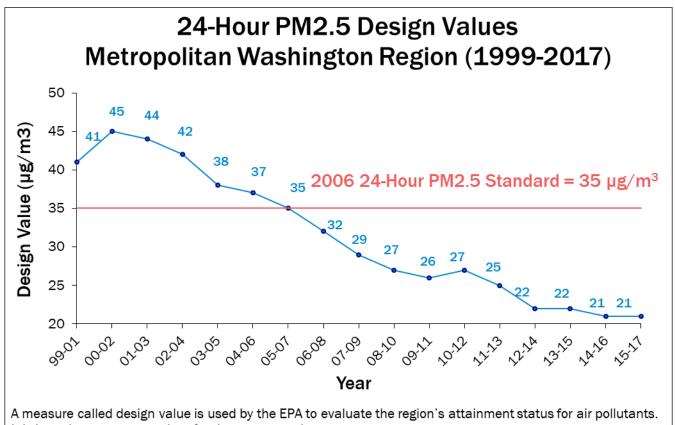
Annual PM2.5 Design Value Trend



based on an average data for three consecutive years.



24-Hour PM2.5 Design Value Trend



It is based on an average data for three consecutive years.

