

2022 Delaware Highway Safety Updates

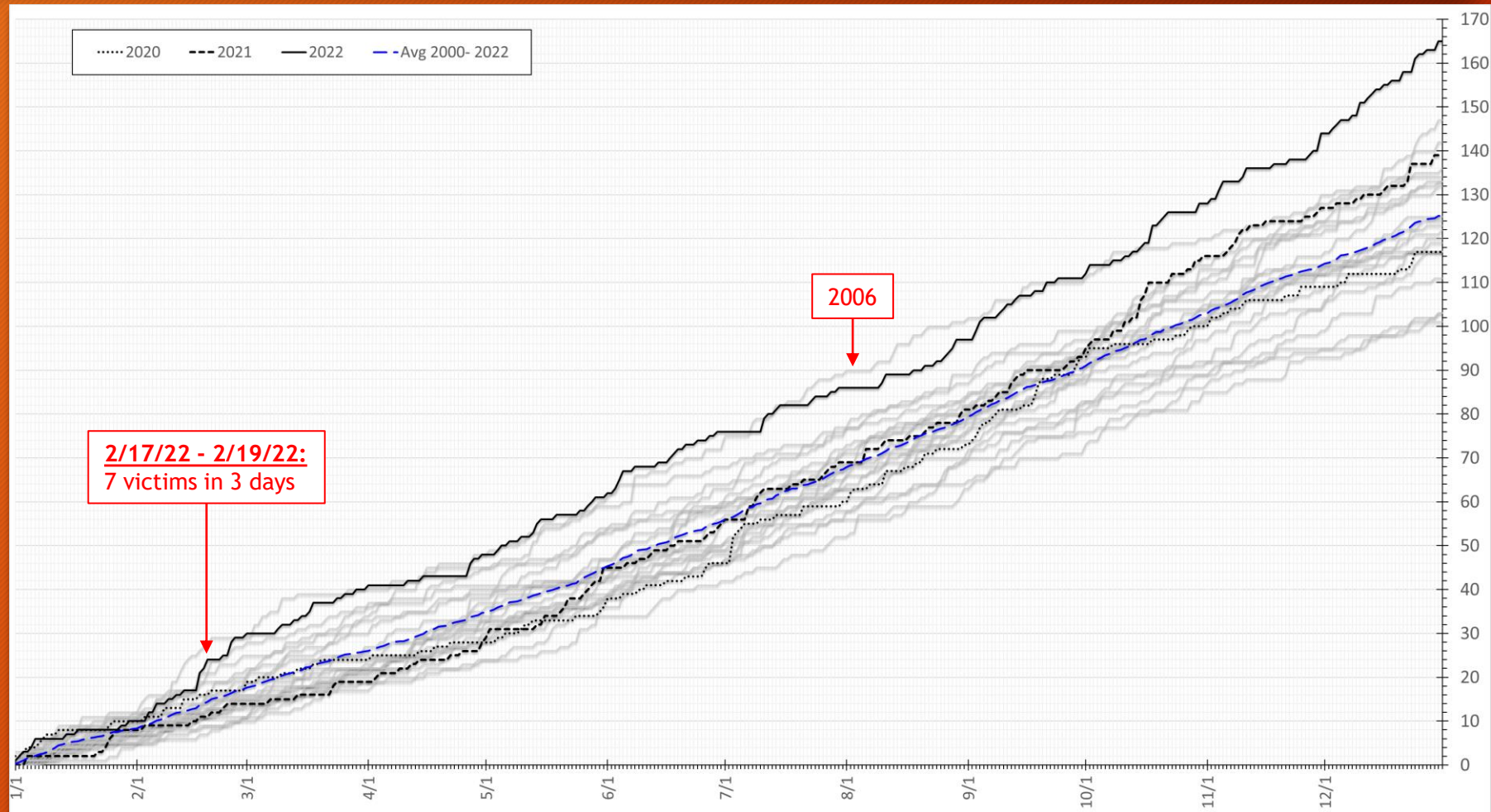
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2022 Fatal Crashes

	<u>2022</u>	<u>2021</u>		<u>2020</u>	
		Year-to-Date	Totals	Year-to-Date	Totals
Fatalities	165	139 ↑ 19%	139	117 ↑ 41%	117
Delaware Residents	120	114 ↑ 5%	119	93 ↑ 29%	96
Person Types					
Vehicle Occupant	103	83 ↑ 24%	83	75 ↑ 37%	75
Pedestrian	33	30 ↑ 10%	30	25 ↑ 32%	25
Bicyclist	7	2 ↑ 250%	2	3 ↑ 133%	3
Motorcyclist	22	24 ↓ -8%	24	14 ↑ 57%	14
Crash Types					
Curve Related	19	23 ↓ -17%	23	19 0%	19
Roadway Departure	57	59 ↓ -3%	59	47 ↑ 21%	47
Intersection Related	48	53 ↓ -9%	53	32 ↑ 50%	32
Median Crossover	8	7 ↑ 14%	7	3 ↑ 167%	3
Wrong Way	7	0 ↑ N/A	0	1 ↑ 600%	1
Work Zone	4	8 ↓ -50%	8	3 ↑ 33%	3

- ❖ 146 fatal crashes
- ❖ 165 fatalities (tied with 1988 for all-time highest)
- ❖ 14 crashes with >1 victim
 - ❖ (+250% from 2021)
- ❖ 7 “wrong way” crashes
 - ❖ 0 in 2021; 1 in 2020
 - ❖ Claimed 12 lives

Fatal Crash Trends

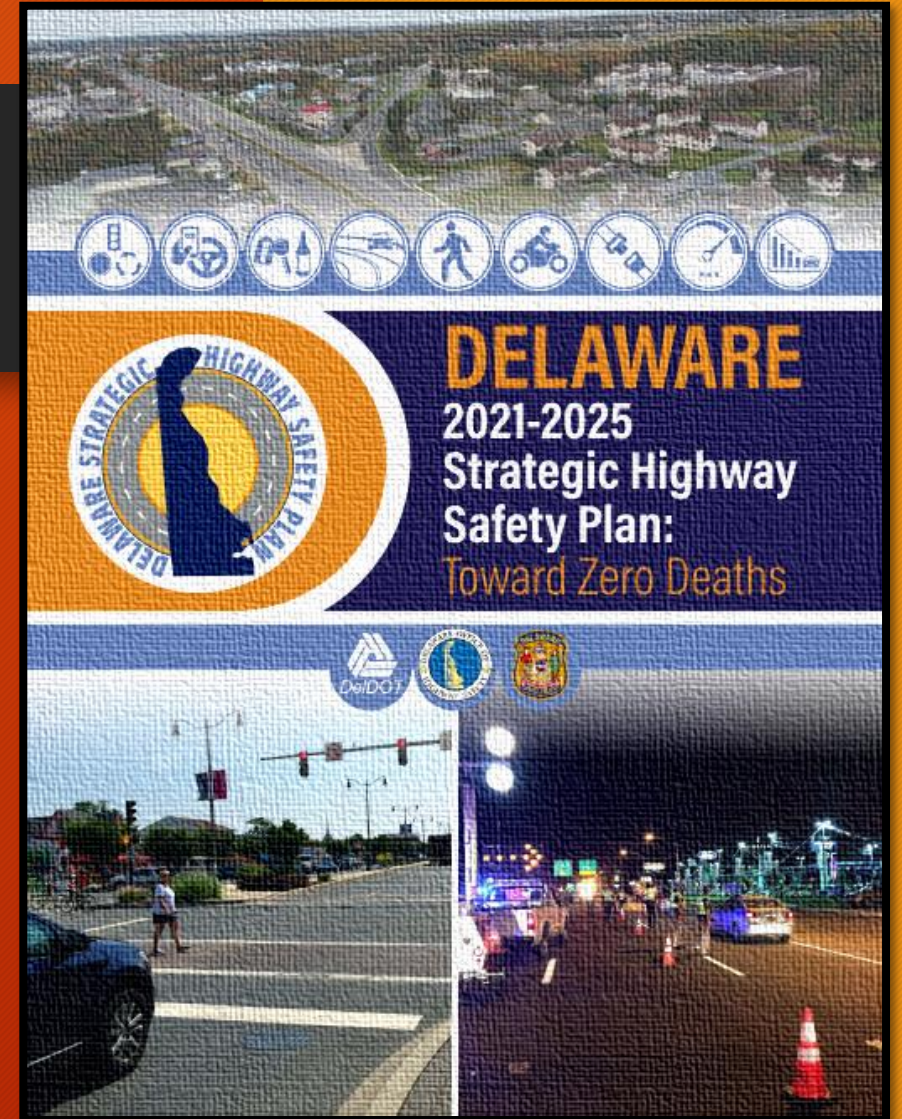


2021-2025

Delaware Strategic Highway Safety Plan

2021-2025 SHSP EMPHASIS AREAS

1. Intersections
2. Distracted Driving
3. Impaired Driving
4. Roadway Departure
5. Pedestrians
6. Motorcycles
7. Unrestrained Motorists
8. Speeding
9. Traffic Records



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ELECTRONIC SPEED SAFETY PROGRAM (ESSP)

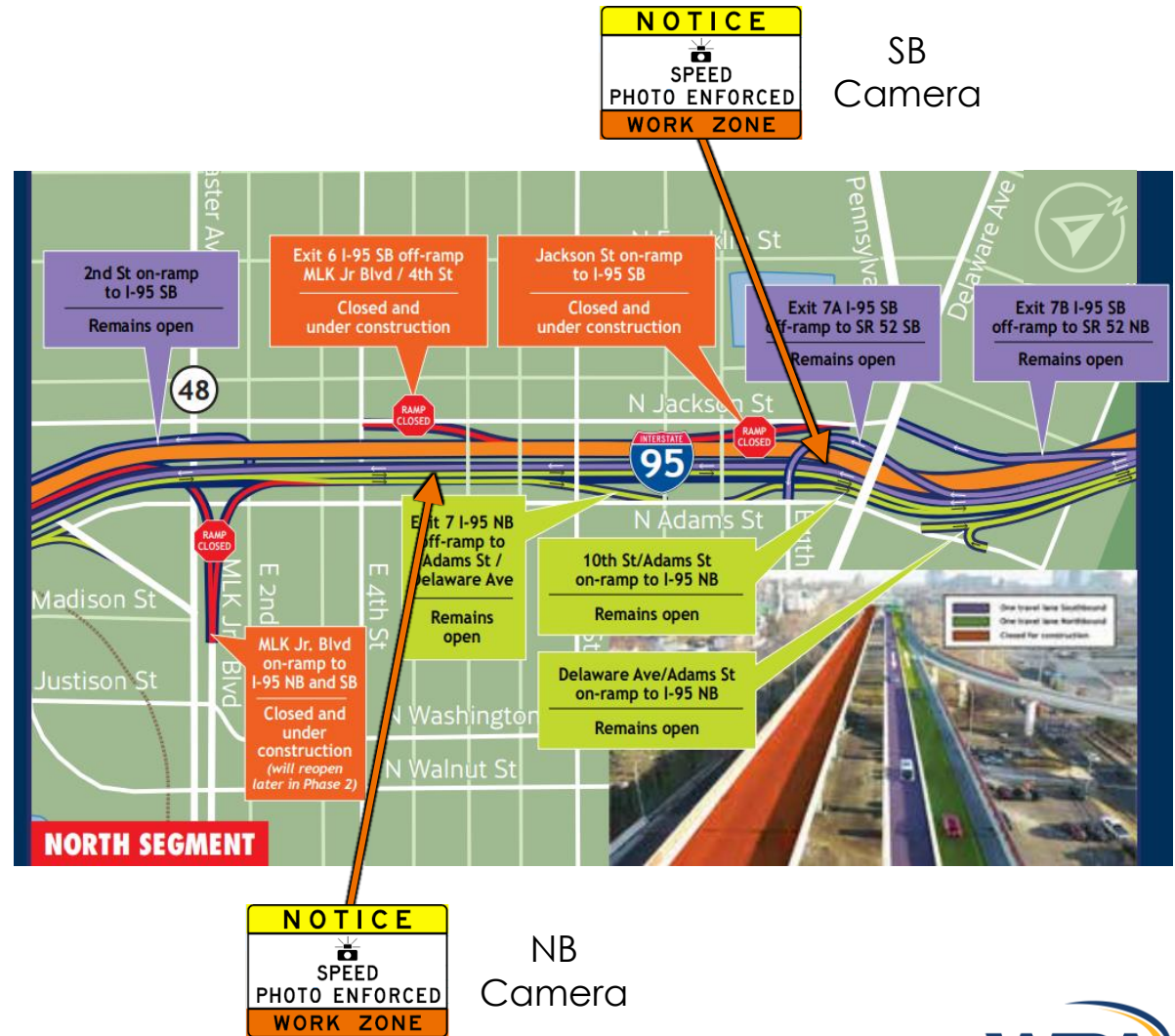
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BACKGROUND

- Section 142 of Senate Bill 200 of the 151st General Assembly
 - Authorized the installation of temporary mobile speed enforcement devices
 - Only within the work zone of the I-95 Restore the Corridor project
 - Goal: to reduce speeding and crashes and increase safety
- Entered agreement with Conduent, DeIDOT's ERLSP vendor
- Devices were first made operational on January 17, 2022

CAMERA LOCATIONS

- Critical Crash Areas
 - Installed in single-lane segment where a crash could close entire direction
- Centralized Location
 - Between Brandywine River Bridge and Viaduct
- Maintenance Practicality
 - Locations identified that were easily accessible to safely perform any required maintenance and repairs



MILESTONES

- Warning Period
 - First 3 months
 - Only warning notices issued
- Citation Period
 - Began April 17, 2022
 - First violations still issued only a warning
 - Subsequent violations issued citations



FINES

- A violation was recorded if a vehicle was traveling at a speed of **58 mph or greater**
 - **13+ mph** in excess of the posted **45 mph** work zone speed limit
- Fine components:
 - **\$20 base fine**
 - additional fine for the speed difference over 45 mph:
 - \$1 for each mph over 45 for recorded speeds of 58-60 mph,
 - \$2 for each mph over 45 for recorded speeds of 61-64 mph,
 - \$3 for each mph over 45 for recorded speeds of 65 mph or greater
 - a surcharge of 50% of the speed violation,
 - \$10 assessment for the Volunteer Ambulance Company Fund
 - \$15 assessment for the Fund to Combat Violent Crimes



DAY ONE

News Room

News

Statewide - Electronic Speed Safety Program to Begin in I-95 Restore the Corridor Construction Zone

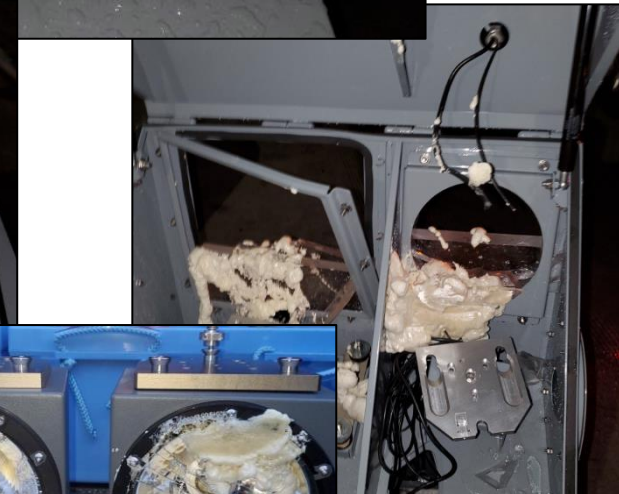
The Delaware Department of Transportation (DelDOT) in partnership with the Delaware State Police announce that beginning **Monday, January 17, 2022**, the pilot Electronic Speed Safety Program will be active only in the I-95 construction zone in Wilmington and will last until the end of the project. The goal of the pilot program is to reduce work zone speeds and crashes, change driver behavior, and improve work zone safety for workers and motorists. In 2021, there were 423 crashes in the I-95 work zone in Delaware, an increase of 49 percent in the same area from 2019.

The first 30 days of the program will be a grace period for motorists for the first subsequent violations with a fine of \$20.00 and a work zone speed limit of 45 mph.

By Dan Stamm and David Chang • Published January 17, 2022 • Updated on January 17, 2022 at 9:28 pm



NEW SPEED CAMERAS ALONG I-95 IN WILMINGTON DESTROYED



CRASH DATA

- Camera monitoring period in 2022 (January 17 – November 4) was compared to same period in prior years
- Because the 2021 data may be skewed by the beginning of construction along I-95 and the first driver experience with contraflow conditions, 2019 crash data prior to construction and the COVID-19 pandemic was also analyzed

2021 – Viaduct Under Construction

	2021	2022	Change
Total Crashes	342	191	-46%
Injury Crashes	50	31	-38%
Fatal Crashes	1	1	0%

2019 – Pre-Construction & Pre-COVID

	2019	2022	Change
Total Crashes	237	191	-19%
Inj. & Fatal Crashes	39	31	-21%

2018 – Additional “Before” Comparison

	2018	2022	Change
Total Crashes	300	191	-36%
Injury Crashes	45	31	-31%
Fatal Crashes	1	1	0%

SPEED RESULTS

- **Before period**
 - Following major traffic shift on December 19, 2021, to January 16, 2022
- **After period**
 - Following camera activation on January 17, 2022, to two-lane reopening on November 4, 2022
- Speeds recorded by Wavetronix devices within the work zone reported **significantly lower speeds following the camera activation and warning notices being issued**

Daily Average Speeds (mph)

	NB I-95	SB I-95
Before Cameras	54.3	49.0
After Cameras	49.0	43.1
Difference (mph)	-5.4	-5.9
% Difference	-9.9%	-12.1%

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Text **DELDOT** to **22333** once to join

What was the highest speed recorded throughout the duration of the program?

125

95

110

69

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CITATIONS & FINES



SUPER PLAYERS		
1. 1D10T	110 MPH	\$347.50
2. SP33DY	105 MPH	\$325.00
3. VR00M	95 MPH	\$280.00
4. G0FA5T	91 MPH	\$262.00
5. 1NAHRY	89 MPH	\$253.00
6. GOTTAGO	86 MPH	\$239.50
7. CYAL8R	86 MPH	\$239.50
8. LUV2SPD	86 MPH	\$239.50
9. EATDUST	86 MPH	\$239.50

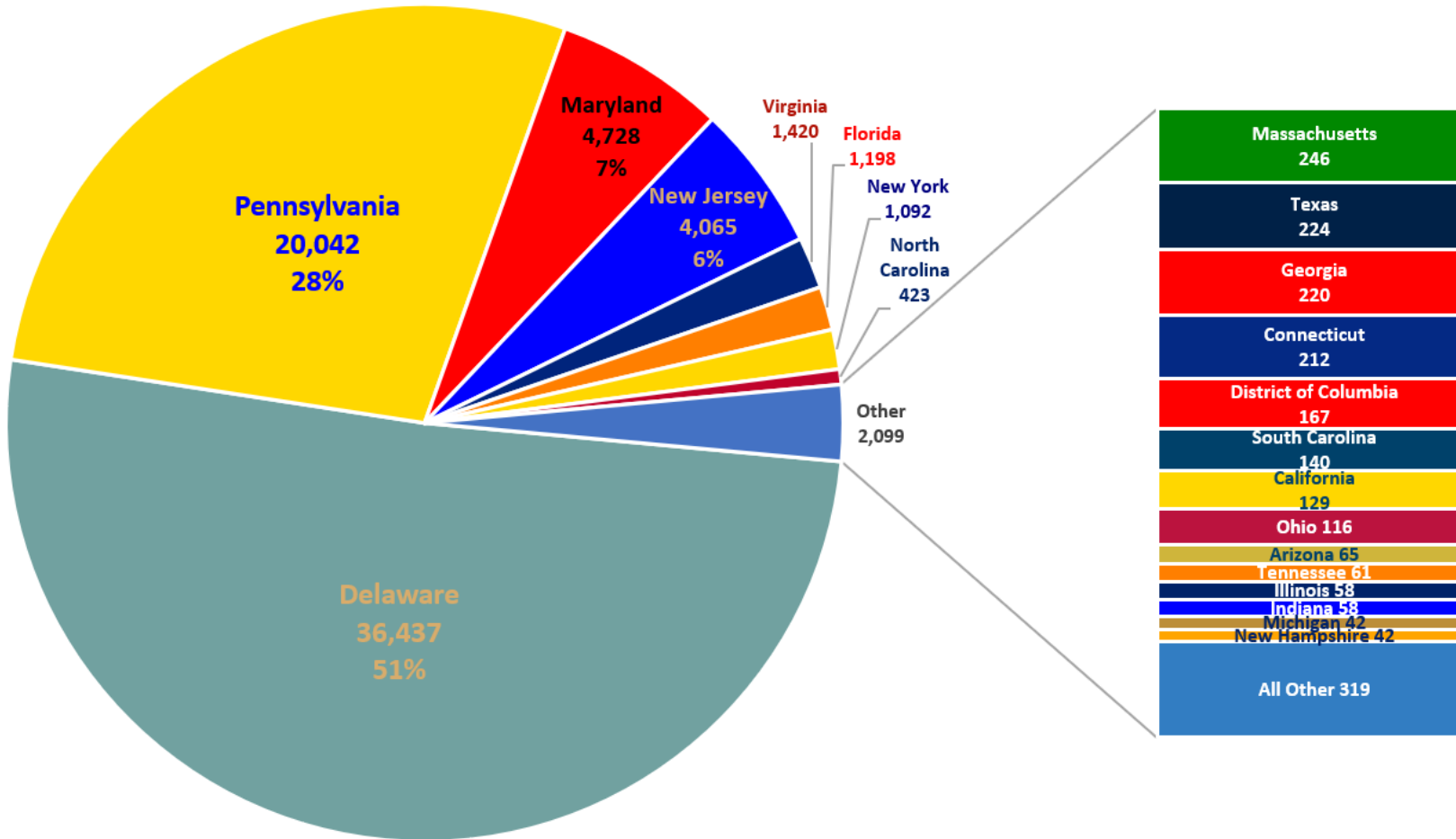
- Minimum fine (58 mph):
 - **\$74.50**
- Median fine (60 mph):
 - **\$77.50**
- 85th-percentile fine (65 mph):
 - **\$145.00**

VIOLATION & FINANCE DATA

- Revenue/Expenses through November:
 - Expenses: \$722,811.00
 - \$712,900.00 to Conduent
 - 2 cameras @ \$35,645 each, monthly
 - \$9,911.00 in payroll expenses to DSP
 - Fines Issued: \$977,403.50
 - \$664,918.50 in base fines and surcharges
 - \$93,360.00 in late fees
 - \$219,125.00 for Violent Crimes and Ambulance Funds
 - Actual Receipts: \$462,252.60

Warnings Mailed	63,714
Citation Notices Mailed	8,765

IN-STATE vs. OUT-OF-STATE



• Three states never got caught:

- Hawaii



- Wyoming



- West Virginia



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What was the highest number of violations issued to one vehicle?



32

18

23

5

None of the above

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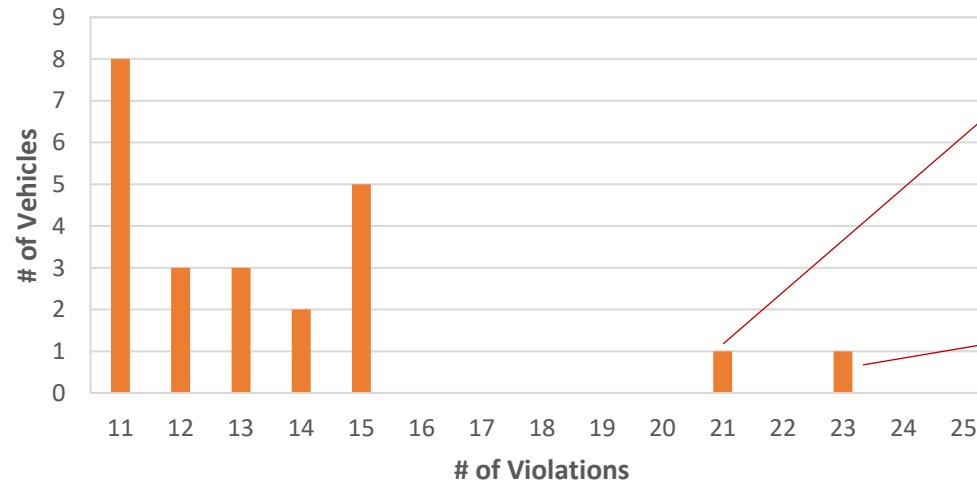
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REPEAT OFFENDERS

- Tracking data showed 7,331 vehicles violated the work zone speed limit at least twice
 - May include multiple warnings during warning-only period



# of Violations	# of Vehicles
2	5,218
3	1,289
4	414
5	180
6	99
7	51
8	32
9	21
10	4



PA Vehicle –
received 8 citations
from April to June

DE Vehicle – all
during 3-month
warning period

NEXT STEPS

- DeIDOT's future plans/sites for ESSP





THANK YOU

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