Example Dallas PD Automated Report

Andrew P. Wheeler

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Intro

This is an example standard report, based on Dallas Open Crime Data, that CRIME De-Coder can help build for your agency.

This is automated to run once a week on my local computer. So should have up to date data and graphs, based on open Dallas PD crime data.

Year to Date Statistics

This tables displays year to date statistics, for the prior year as of the specified date compared to this year. Broken down by NIBRS crime categories.

Poisson Z-scores of greater than 3 indicate a substantive increase, and Poisson Z-scores less than 3 indicate a substantive decrease for the year-over-year stats.

NIBRS	2024	2025	Difference	Poisson-Z
ALL OTHER OFFENSES	4435	5511	1076	15.3
DRIVING UNDER THE INFLUENCE	691	916	225	8.0
FRAUD OFFENSES	1447	1720	273	6.9
TRESPASS OF REAL PROPERTY	835	985	150	5.0
PUBLIC INTOXICATION	721	834	113	4.1
EMBEZZELMENT	135	174	39	3.1
FAMILY OFFENSES, NONVIOLENT	403	440	37	1.8
WEAPON LAW VIOLATIONS	1020	1054	34	1.1
STOLEN PROPERTY OFFENSES	311	327	16	0.9
COUNTERFEITING / FORGERY	135	102	-33	-3.0
ROBBERY	1653	1482	-171	-4.3
BURGLARY/ BREAKING & ENTERING	4177	3841	-336	-5.3
DRUG/ NARCOTIC VIOLATIONS	5872	5386	-486	-6.5
DESTRUCTION/ DAMAGE/ VANDALISM OF PROPERTY	5995	5298	-697	-9.3
LARCENY/ THEFT OFFENSES	18590	17143	-1447	-10.8
ASSAULT OFFENSES	5636	4672	-964	-13.4
TRAFFIC VIOLATION - HAZARDOUS	1675	1100	-575	-15.5
MOTOR VEHICLE THEFT	21010	15622	-5388	-39.9

Temporal Crime Breakdown

These charts display weekly and monthly trends for specific crime types. Charts can be expanded to examine any particular type of crime breakdown you specify at the onset.

The weekly charts display error intervals (based on the Poisson Z-scores) for the running average of the prior 8 weeks. If an event is outside of these intervals, it signals that week is an outlier. The black line signals longer term trends.

The monthly chart displays seasonal trends compared to prior years, since 2018 in this data.
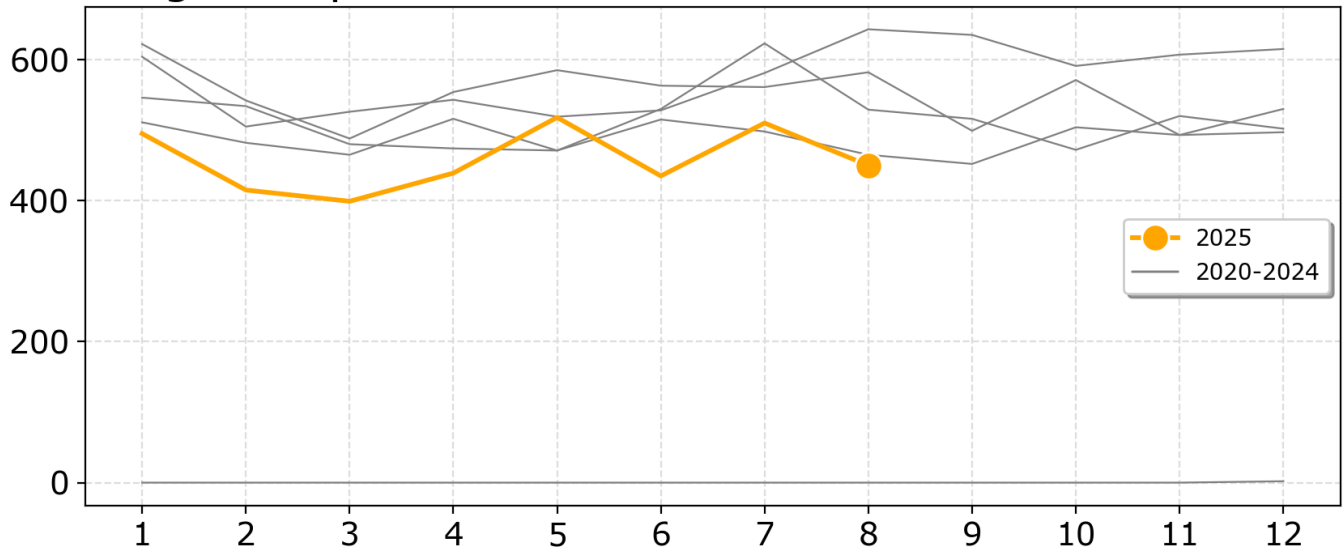
Charts only display completed time periods based on the data. So do not report partial months or weeks.

Burglary
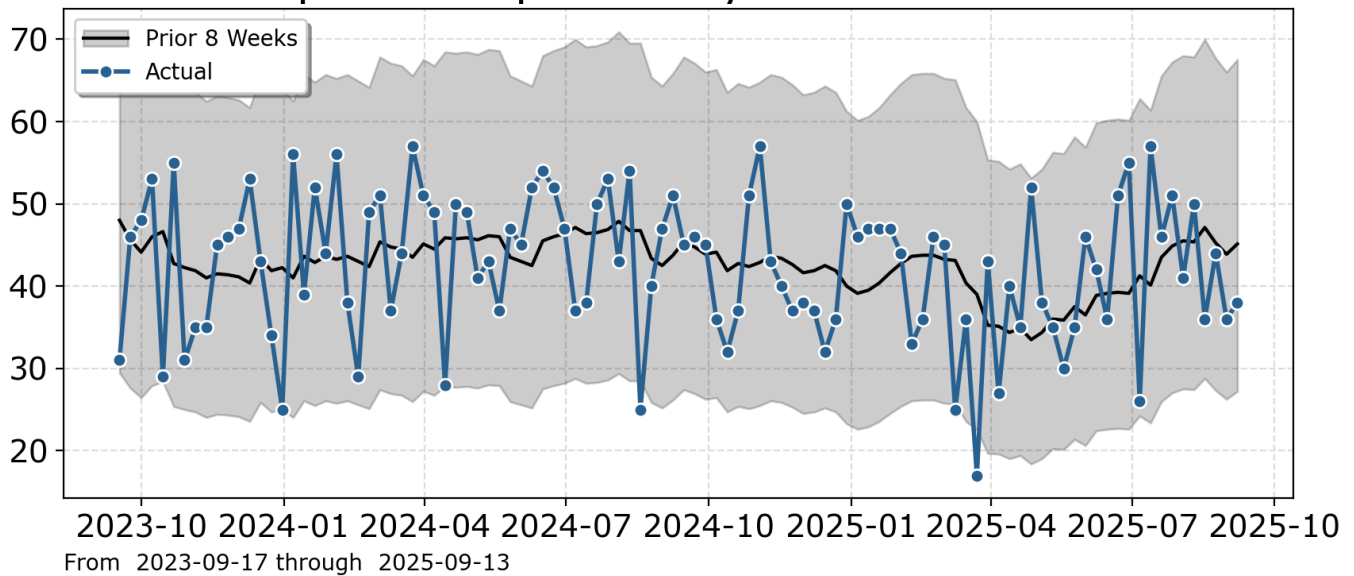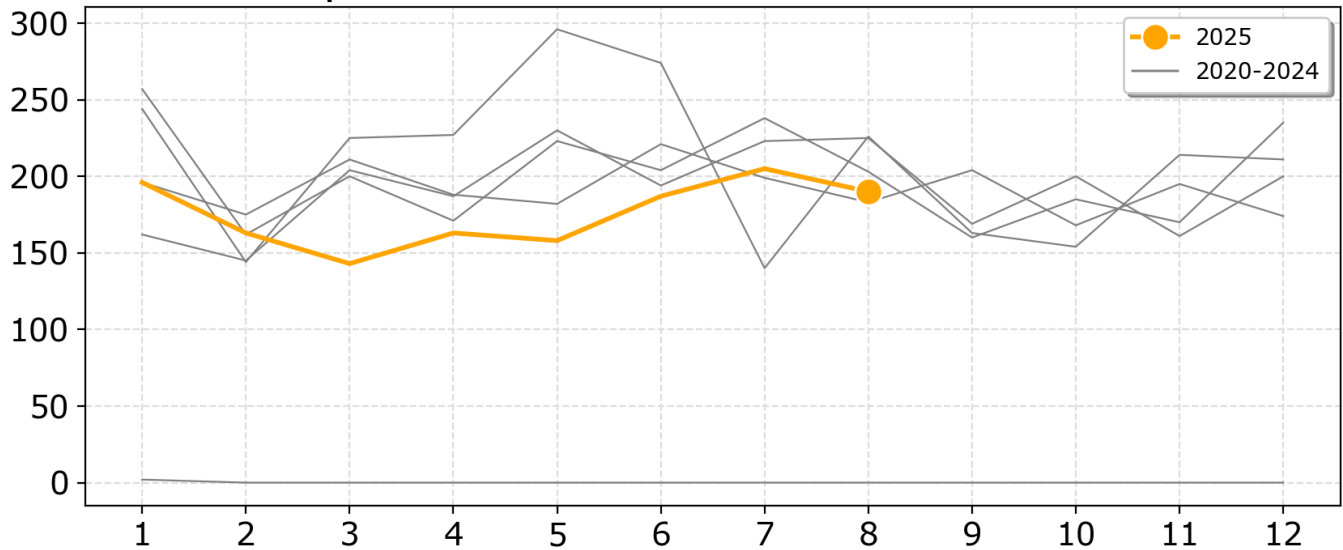

Burglaries per week past two years

From 2023-09-17 through 2025-09-13
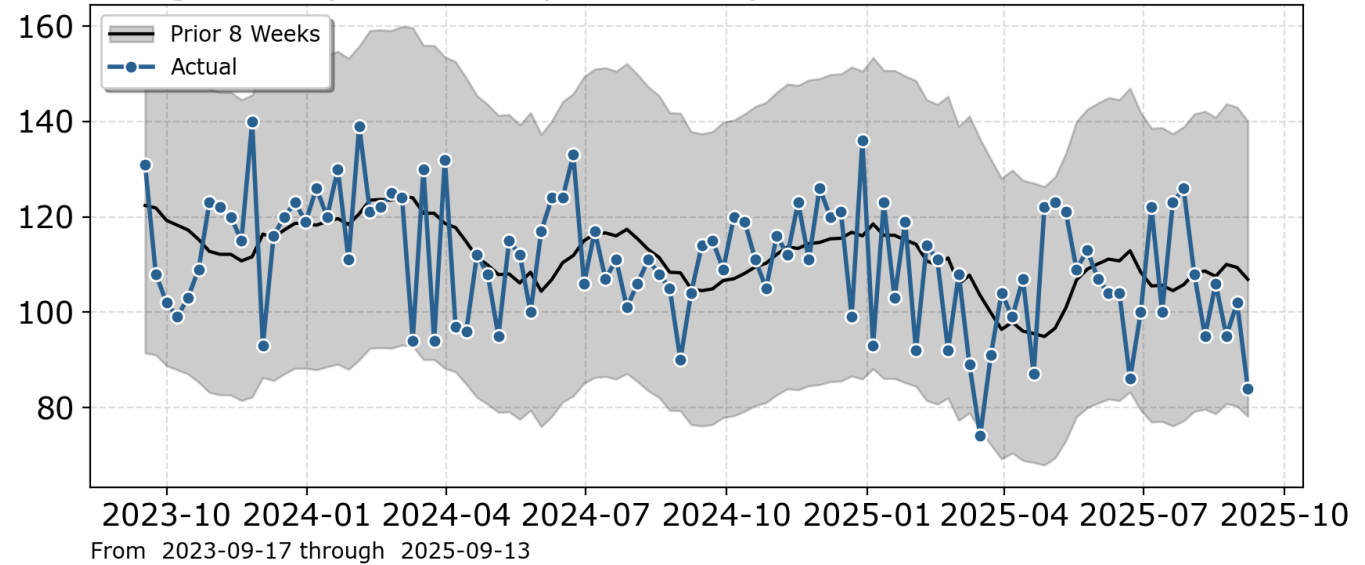
Burglaries per Month

Robbery

Robberies per week past two years

From 2023-09-17 through 2025-09-13

Robberies per Month

Motor Vehicle Theft

MV Theft per week past two years

From 2023-09-17 through 2025-09-13
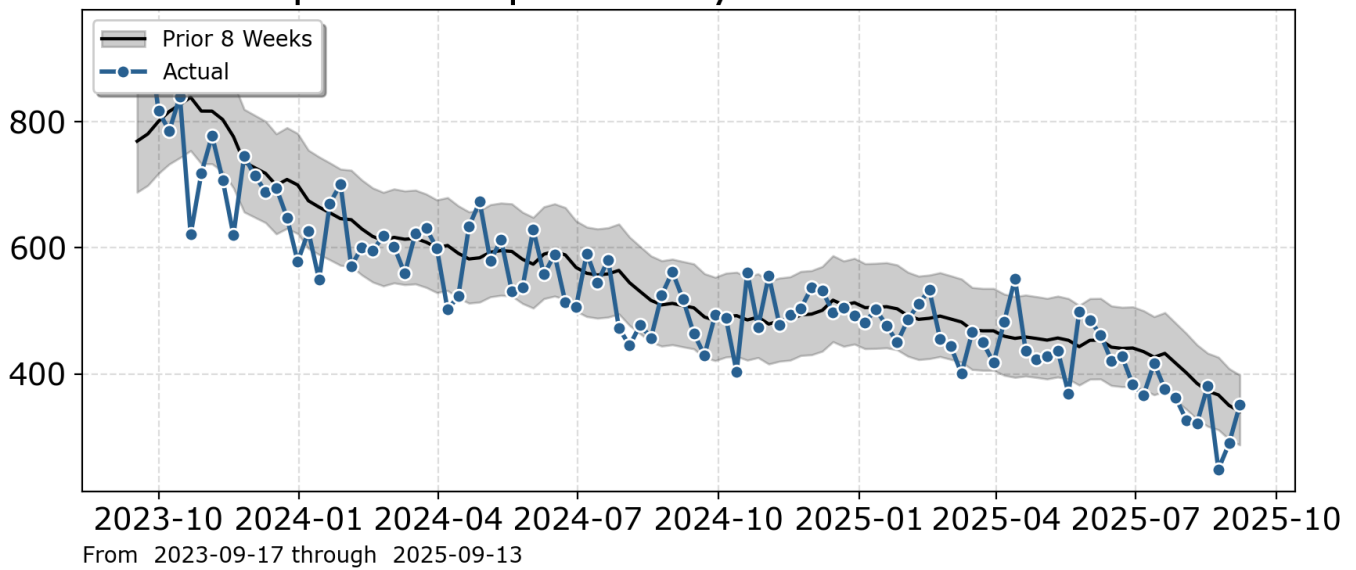
MV Theft per Month
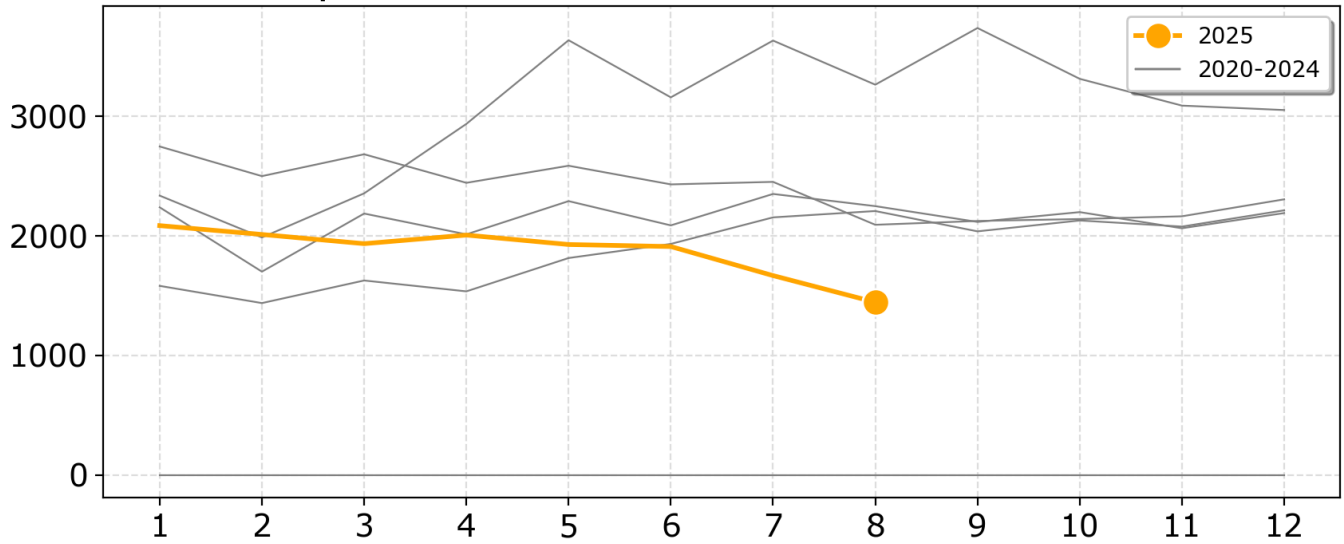
Repeat Harm Addresses

A common, simple technique to identify hot spots is to conduct repeat address mapping. For illustration here I aggregate crimes according to Harm Indices, and get the Top 10 Addresses for the data. These are labor cost of crime estimates for addresses, normalized per year. So an address with a cost of $500,000 I expect generates half a million dollars of labor cost for Dallas PD to respond to crime incidents at that location.

I also include stats for crimes within the past 90 days, so you can identify if they are still recurring problem addresses, or if they have potentially cooled down.

Note I filter out several Dallas PD headquarter addresses, such as 1400 S LAMAR ST and 1400 BOTHAM JEAN BLVD, as this is Dallas PD headquarters.

Address	Cost	Property	Violent	Past 90 Prop.	Past 90 Viol.
8008 HERB KELLEHER WAY	$748k	910	354	48	14
8687 N CENTRAL EXPY	$459k	2121	29	87	2
8687 N CENTRAL SERV SB	$235k	914	42	46	8
3550 E OVERTON RD	$205k	345	87	20	7
13350 DALLAS PKWY	$192k	803	27	25	1
9600 FOREST LN	$183k	398	71	24	4
1818 CORSICANA ST	$173k	170	95	18	8
1521 N COCKRELL HILL RD	$172k	630	31	25	2
7401 SAMUELL BLVD	$150k	510	33	8	4
4722 MEADOW ST	$144k	283	57	7	0

Meta

This is an example crime report that can be automated. This is a basic demonstration using open crime data from Dallas.

Different charts and graphs can be amended to your particular tastes, as well as output formats, e.g. if you want online HTML, a PDF to be automatically emailed, or a word document that you can edit.

Get in touch if this is something you would be interested in building for your agency.