

Data-Driven Legislation Implementation Using the Performance Measurement System

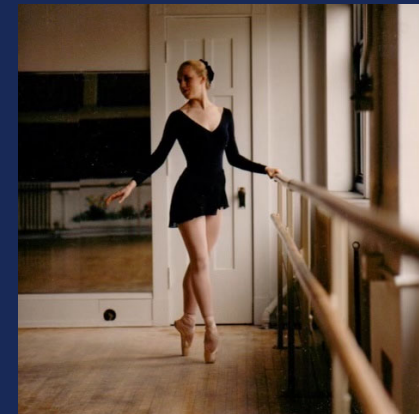
Meghan E. Peel, Ph.D.

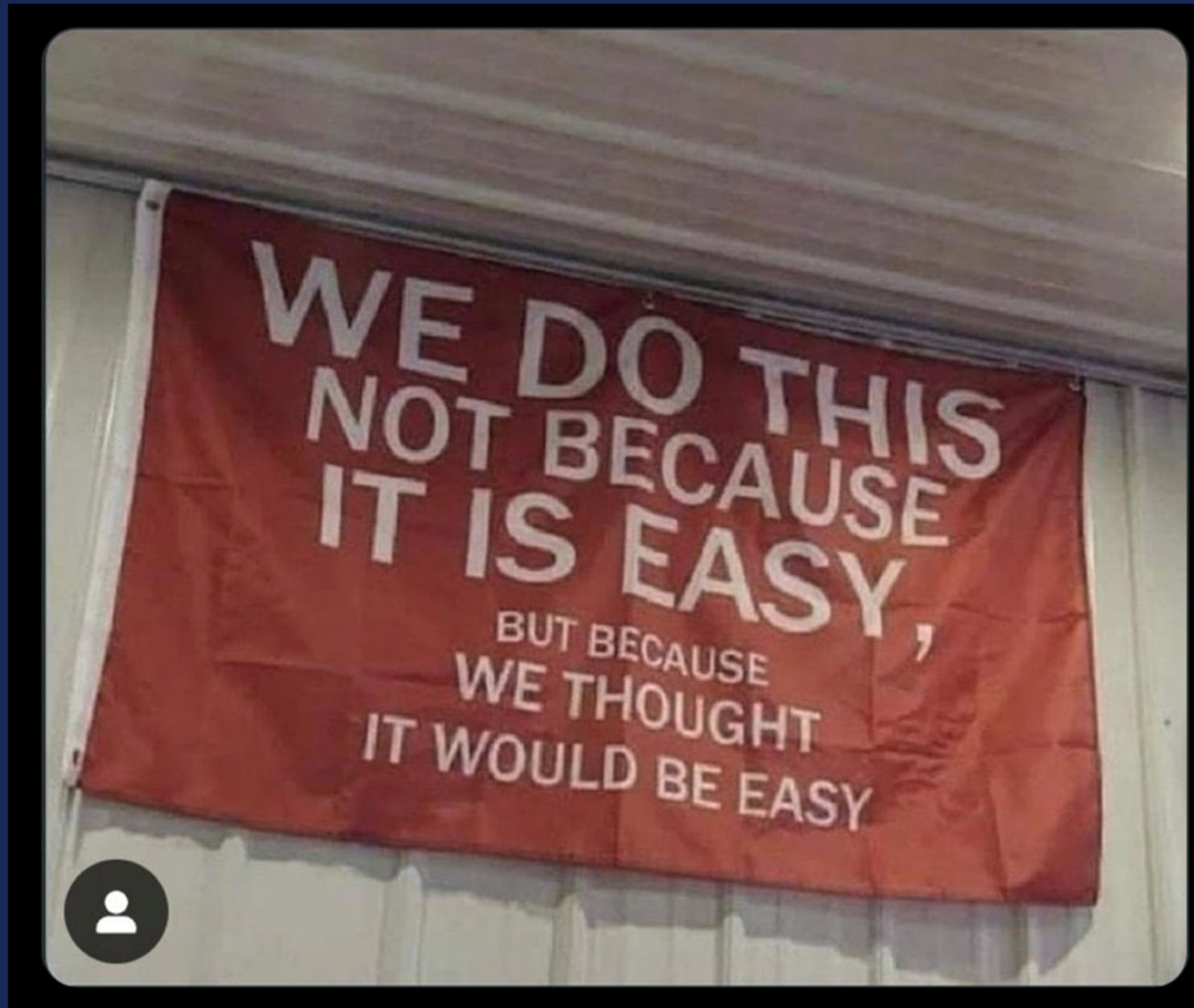
Policy Research and Data Analyst

July 13, 2023



About Me





TSABAA Conference, July 13, 2023

Performance-Based Budgeting

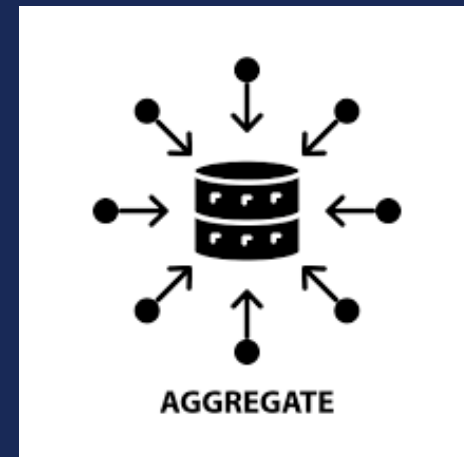
Starts and ends with the agency's Performance Measurement System

- Performance measures are a high-level view of what happens in an agency
- Two groups of measures:
 - **Workload**
 - **Output**



Performance-Based Budgeting Challenges

- Aggregation Challenges
- Lack of Understanding
- Reactive vs. Proactive Use



Characteristics of a Good Performance Measurement System

- Results Oriented
- Accessible
- Selective
- Reliable
- Useful



Goals of Performance Measurement Administration

- ✓ End-user oriented
- ✓ Need to be measures/goals NOT threats
- ✓ Integrate into decision making at all levels
- ✓ Culture shift
- ✓ Develop traps and controls (Quality First!)
- ✓ Revisit often



Disaggregating Your Performance Measures

Why disaggregate?

- ❖ Accountability
- ❖ Identify challenges
- ❖ Identify errors masked by aggregation
- ❖ Understand workload
- ❖ Acquire a better understanding of workload and productivity before and after implementing new policies/programs

Disaggregating Your Performance Measures Increases Accountability

- ✓ Accountability for/to Management
- ✓ Accountability for/to Employees
- ✓ Accountability to the Legislature
- ✓ Accountability to Constituents



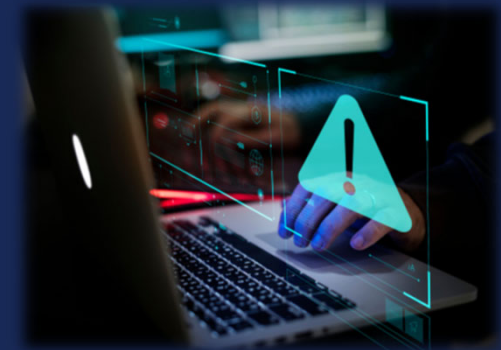
Disaggregating Your Performance Measures Helps Identify Challenges



- Can see data trends that indicate a problem is coming (and where it is coming from) or that a problem already exists
- Early Warning Systems (EWS)
- Data Reconciliation – can see data anomalies that could indicate data errors/problems

Disaggregating Your Performance Measures Helps Identify Data Errors

- **Involving program staff in discussions**
 - Importance of subject matter experts
 - Data require context
- **Reconciliation reports**
- **Viewing trends in different ways**
 - Anomaly detection/ Outlier detection



Disaggregating Your Performance Measures Helps Forecast Workload

- Involving program staff to understand what the numbers mean
 - Analysts should not work in isolation
- Viewing trends
- Using trends and patterns to forecast future needs
- Seasonality
 - Performance targets assume equal load across quarters but workload comes in seasons for most agencies
 - Ability to anticipate spikes and valleys



Disaggregating Your Performance Measures Improves Policy Implementation

- Establishing baselines for performance
- Inputs/Outputs (changes in performance)
- Did you move the needle?
- Identifying data gaps
- Involve your data analysts early in the process (hard to reverse engineer data once systems are designed)

Disaggregating Your Performance Measures

Ways to disaggregate:

- By Division (for performance measures that cross functional areas)
- By Program
- By Region
- By Individual Employees
- By time period (year, quarter, month, week, day)
- See patterns over the day and week

Using Performance Measures in LAR/Cost Estimates

- Baseline data
- Can look at workload per employee for different types of work
- Can see areas where agency is struggling
- Sometimes the Lege needs to “see the pain”



The TDLR Example

HB 1560 (87R)

Risk-Based Inspections Implementation

Risk-Based Inspections Implementation

- Two performance measures involved:
 - Total Number of Inspections Completed
 - Inspection Coverage Rate
- Cross two divisions:
 - Field Inspections Division
 - Regulatory Program Management Division
- Aggregated measures across multiple programs


The eInspections Project

- Standardization of data:
 - Improved Analytics
 - Design with the data in mind
- Digitize, standardize, and improve the efficiency of inspections
- Improve data reliability and validity
- Assist in implementation of risk-based inspections

Field Inspections Example

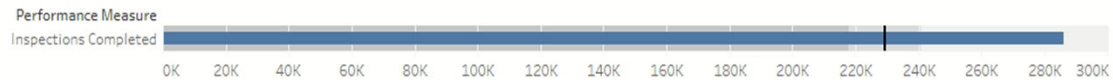
Ways to disaggregate:

- By Division (for performance measures that cross functional areas)
- By Program
- By Region
- By Individual Employees
- By time period (year, quarter, month, week, day)

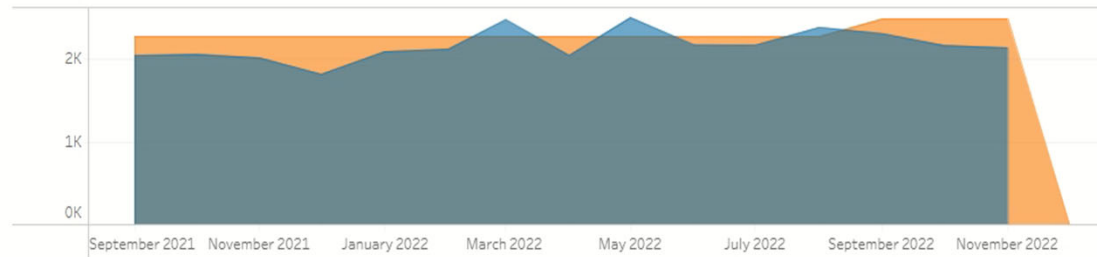
1. Choose a Fiscal Year: 2. Choose Division(s) Responsible: 3. Select a Performance Measure [Click here to view Director's Dashboards](#) 

The Performance Measure Management System is used to track agency performance in accordance with the SAO Performance Measure Guidelines. This dashboard provides an overview of all agency performance measures. This Dashboard provides the performance measures as they are reported to the Legislative Budget Board. Director-level dashboards allow Directors to work with their managers/supervisors to take a deep dive into their performance measures and utilize them to monitor day-to-day operations. The director dashboards break these performance measures down by specific division, program, and license type (where appropriate and available).

Performance Measure Attainment

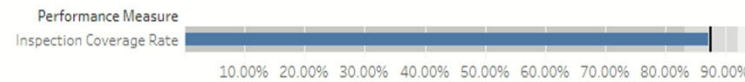


Performance Measure Status by Month



Cumulative Measures

Cumulative Measures (such as the Inspection Coverage Rate) are only reported once at the conclusion of each fiscal year. They are tracked separately to the right.



Field Inspections Work Planning

Total Inspections Due This Fiscal Year

20,975

Incomplete Inspections Due This Fiscal Year

9,484

Overdue Inspections at Start of Month

5,900

Inspections Completed Previous Month

1,748

Inspections Completed Current Month to Date

173

YTD Inspections Completed

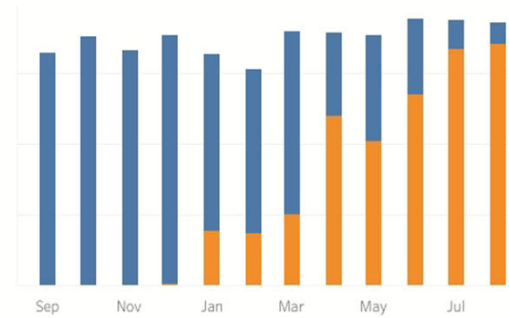
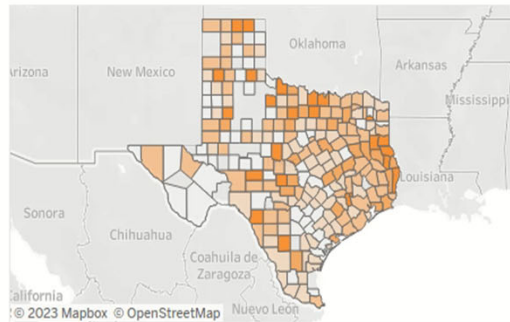
11,601

Select a Region:

(All)

Select a Bar Chart

Incomplete vs Due



Detailed List

License ID	License Nu..	Licensee/B..	Address 1	Address 2	City	County	Due Date	Owner	Inspection ..	License Sta..	License Exp..
664	000140	CENTRAL T..	2112 E VILL..	Null	BRYAN	OUT OF STA..	5/31/2024	CamTu Tran	Inspection I..	Current	3/31/2025
686	101169	ADVANCED ..	1900 SOUT..	SUITE E	AMARILLO	Potter	8/31/2024	Lance Carol..	Inspection I..	Expired	8/31/2021
687	101196	ADVANCED ..	5211 79TH..	Null	LUBBOCK	Lubbock	8/31/2024	Michael Ha..	Inspection ..	Expired	2/28/2022
868	101005	UTHSCSA-R..	7703 FLOY..	Null	SAN ANTO..	Bexar	11/30/2022	James McE..	Inspection ..	Current	5/31/2024

Owner: Meg Peel

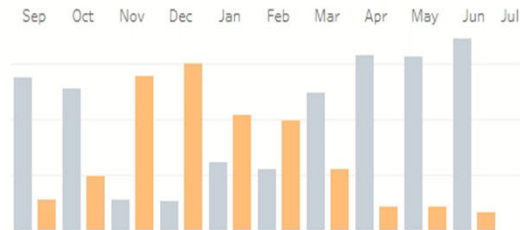
Update Frequency: Weekly (Sunday)

Data Sources: eInspections, TULIP, Versa

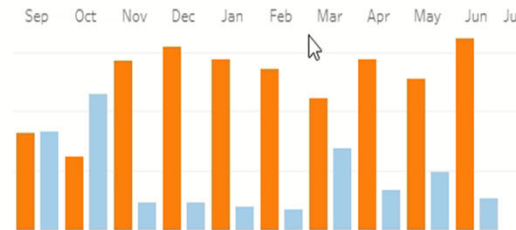
Data Corrections Needed - Field Inspections

Select Region: Select Owner:

Comparison of Inspections with **Corrections Needed** and **Data Correct** Across Systems by Due Date



Comparison of Inspections with **Different Month/Year** and **Same Month/Year** Across Systems by Due Date



Select Error Type

- Different Month/Year
- Same Month/Year

Detailed Corrections Needed List

Inspection ID	License ID	License Nu..	Data Corrections N..	Date of Inspection	Last Inspection Date Syst..	Region (Lic..
POI-00001049-20220810	11874248	ME4384	Corrections Needed	8/10/2022 10:09:00 AM	8/24/2022 12:00:00 AM	South
POI-00001083-20220817	11665381	ME3116	Corrections Needed	8/17/2022 5:58:00 PM	8/18/2022 12:00:00 AM	East
POI-00001165-20220908	70642796	227706	Corrections Needed	9/8/2022 12:34:00 PM	9/22/2022 12:00:00 AM	North
POI-00001661-20220928	70677968	788363	Corrections Needed	9/28/2022 4:41:00 PM	9/27/2022 12:00:00 AM	Central
POI-00002051-20221013	70618840	777357	Corrections Needed	10/13/2022 1:19:00 PM	10/20/2022 12:00:00 AM	Central

Owner: Meg Peel
 Update Frequency: Weekly (Sundays)
 Data Source: eInspections, TULIP, Versa

Using Your Performance Measurement System to Create Return on Investment

Number of Inspections		Forecast Paper POI Cost	Forecast Electronic POI Cost	Difference
26,510		\$230,106.80	\$82,711.20	\$147,395.60
Month	Number of Inspections	Cost if All Paper POI	Cost if All Electronic POI	Difference
Sept – 21	1,661	\$14,417.48	\$5,182.32	\$9,235.16
Oct – 21	1,626	\$14,113.68	\$5,073.12	\$9,040.56
Nov – 21	1,572	\$13,644.96	\$4,904.64	\$8,740.32
Dec – 21	1,185	\$10,285.80	\$3,697.20	\$6,588.60
Jan – 22	1,718	\$14,912.24	\$5,360.16	\$9,552.08
Feb – 22	1,380	\$11,978.40	\$4,305.60	\$7,672.80
Mar – 22	2,902	\$25,189.36	\$9,054.24	\$16,135.12
Apr – 22	3,736	\$32,428.48	\$11,656.32	\$20,772.16
May – 22	4,280	\$37,150.40	\$13,353.60	\$23,796.80
Jun – 22	2,719	\$23,600.92	\$8,483.28	\$15,117.64
Jul – 22	1,785	\$15,493.80	\$5,569.20	\$9,924.60
Aug – 22	1,946	\$16,891.28	\$6,071.52	\$10,819.76
Average Per Month	2,209	\$19,174.12	\$6,892.08	\$12,282.04

The TDLR Example

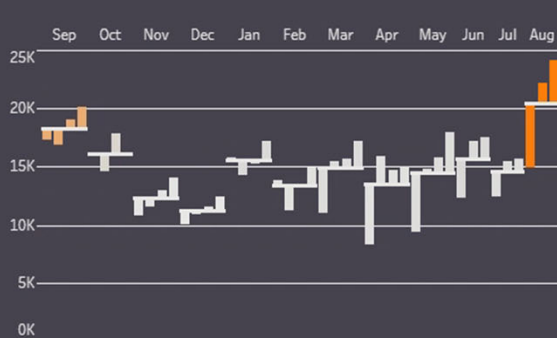
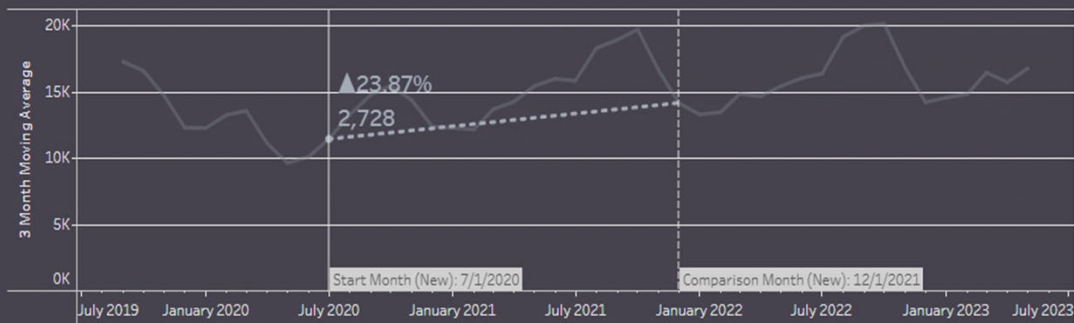
Seasonality Analysis



Seasonality Analysis of Licensing Division - New Licenses

Select Application Mode (New): Select program(s): Select a license type:

Click line graph to set start date then hover over dates to generate comparison value.



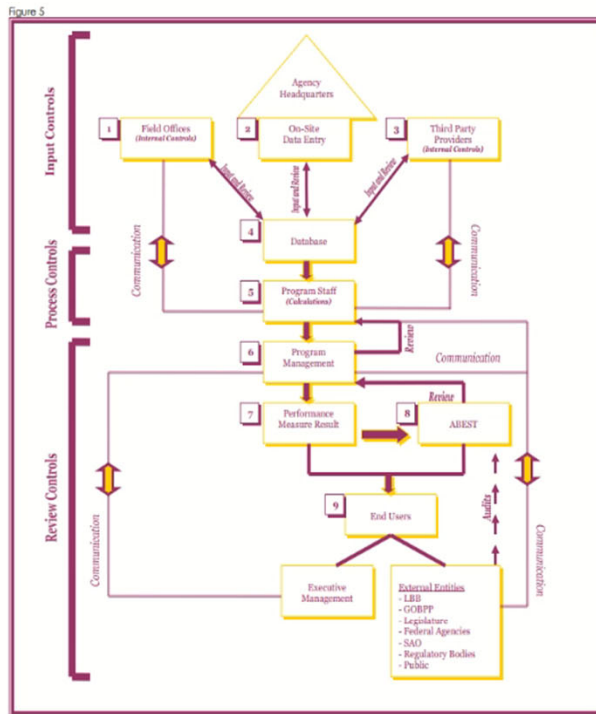
	FY 2020	FY 2021	FY 2022	FY 2023
Sep	Light	Light	Light	Light
Oct	Light	Light	Light	Light
Nov	Light	Light	Light	Light
Dec	Light	Light	Light	Light
Jan	Light	Light	Light	Light
Feb	Light	Light	Light	Light
Mar	Light	Light	Light	Light
Apr	Light	Light	Light	Light
May	Light	Light	Light	Light
Jun	Light	Light	Light	Light
Jul	Light	Light	Light	Light
Aug	Light	Dark	Dark	Dark

Last Updated: 6/25/2023
 Owner: Meg Peel
 Data Source: Licensing Performance Measure Data

Returning to the Aggregate

TDLR Performance Measure Reporting Status System

Background of Performance Measurement System



SOURCE: Model of a Performance Measurement System with an Example Control Structure (from SAO 212-333)

Customer Service PMs (2)

Education and Examination PMs (1)

Enforcement PMs (6)

Licensing % PMs (5)

Licensing Volume PMs (4)

RPM PMs (2)

RPM and FI PMs (2)

SAO Audit Information



Questions?

Meghan E. Peel, Ph.D.
(meg.peel@tdlr.texas.gov)