

TDA Inventory Compliance and Transfer Optimization Dashboard

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TEXAS DEPARTMENT OF AGRICULTURE
DATA ANALYSIS PORTFOLIO PROJECT

This dashboard provides a comprehensive, two-page analytical tool for proactive inventory management. The first page focuses on identifying and prioritizing compliance risks (6MOH violations and spoilage threats), while the second page validates the success of data-driven intervention by measuring the total pounds transferred and the resulting inventory health gain for recipient entities. It transforms raw inventory data into actionable insights, enabling TDA analysts to quickly triage urgent situations and efficiently optimize food distribution.



Compliance & Risk Monitoring

% Non-Compliant

20%

Total At-Risk LBS

69,400

% Non-Compliant:

Measures the program-wide non-compliance rate by showing the ratio of unique entities with a 6MOH violation compared to all entities. This is the executive-level metric for program health.

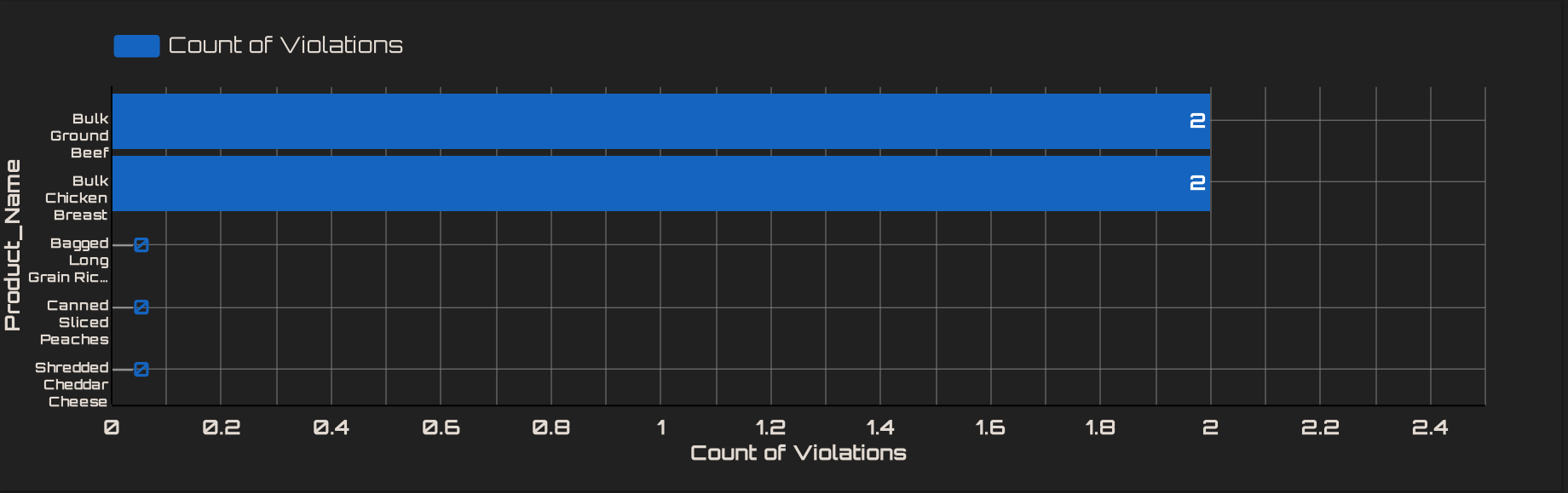
Total At-Risk LBS:

Quantifies the total pounds of excess inventory that exceeds the 6-month hold limit across all non-compliant entities. This is the total volume that must be transferred or disposed of.

Violation Count by Product:

Identifies which USDA commodities are creating the most significant compliance problems by summing the number of unique 6MOH violations per product type. This helps prioritize transfer efforts for specific foods.

Violation Count by Product



Spoilage & Risk Heatmap:

A prioritized operational watchlist that identifies the riskiest inventory items based on non-compliance status and impending expiration date. The color-coding acts as a functional "to-do" list for technical assistance calls.

Spoilage & Risk Heatmap

	Intervention_Pr iority	Entity_ID	Product_Name	Calculated_MOH	Days_Until_Best_By ^	Current_Inventory_LBS
1.	IMMEDIATE ACTION: TRANSFER & COMPLIANCE REVIEW	CE_50099	Bulk Chicken Breast	7.37	51	16,229.50
2.	IMMEDIATE ACTION: TRANSFER & COMPLIANCE REVIEW	CE_50099	Bulk Ground Beef	8.99	74	19,400.37
3.	IMMEDIATE ACTION: TRANSFER & COMPLIANCE REVIEW	PROC_61044	Bulk Ground Beef	7.49	82	19,899.70
4.	IMMEDIATE ACTION: TRANSFER &	PROC_61044	Bulk Chicken Breast	7.06	102	13,870.08

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Intervention & Transfer Analysis

Total Pounds Transferred

5,104

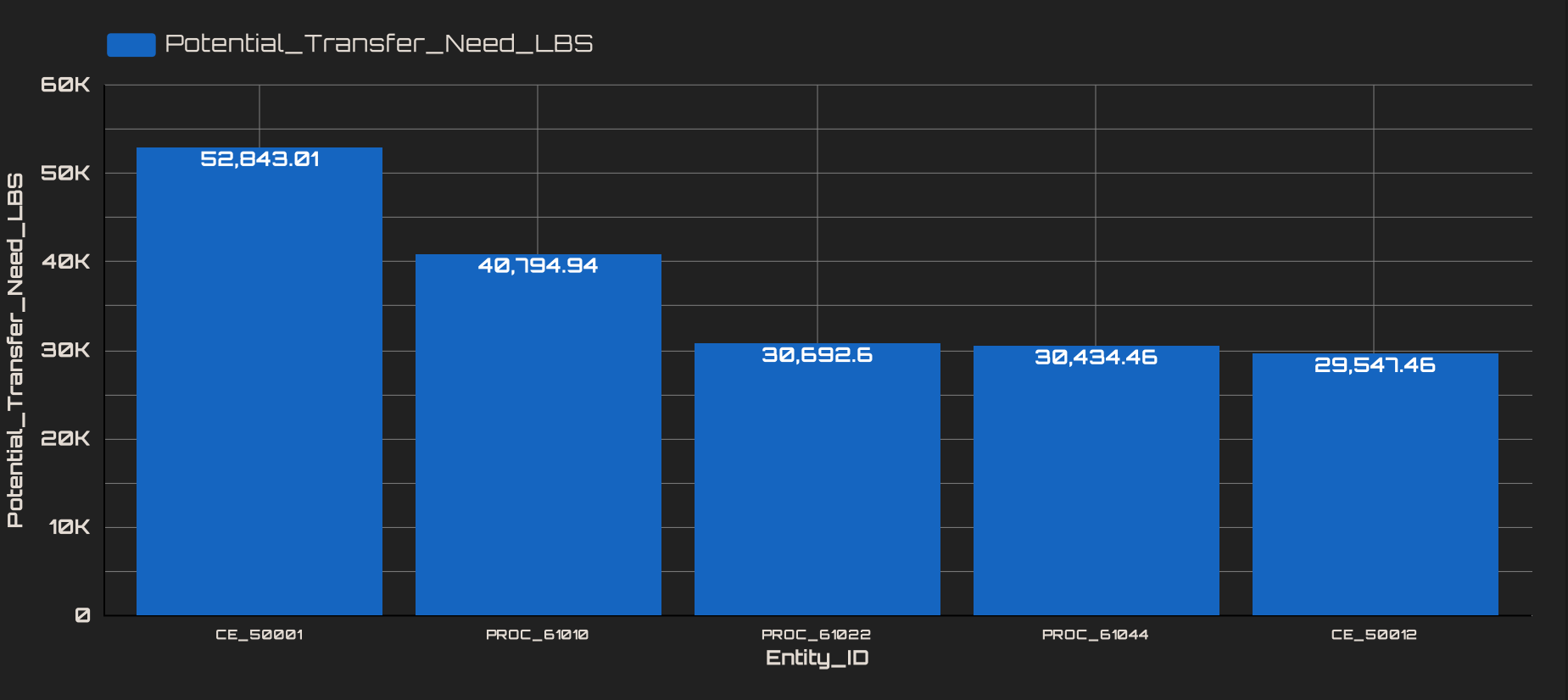
Total Pounds Transferred:

Measures the total volume of inventory successfully reallocated based on the analyst's transfer recommendations. This represents the successful intervention volume (i.e., waste prevention).

Top 5 Potential Transfer Needs:

Identifies the top five compliant entities that have the largest capacity to absorb new inventory, ensuring efficient allocation of excess stock to areas of greatest need. This serves as the recipient targeting list.

Top 5 Potential Transfer Needs



Average MOH Improvement:

Shows the measurable impact of the transfers on both the source and recipient entities by comparing pre- and post-transfer Months of Hold. This validates the effectiveness of the intervention logic.

Average MOH Improvement

	Product_Name	Entity_ID	Source_MOH_Pre	Target_MOH_Post	Recipient MOH Gain
1.	Bulk Chicken Breast	CE_50001	7.22	0.88	0.74

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