



RETAIL INVENTORY AND MANAGEMENT ANALYSIS

STOCKOUT %
 **51.86**

AVG Supplier Time
 **5.52**

DEMAND VS STOCK %
 **1.2**

Category

All

Holiday

☐ False

☐ True

STORE ID

All

Location

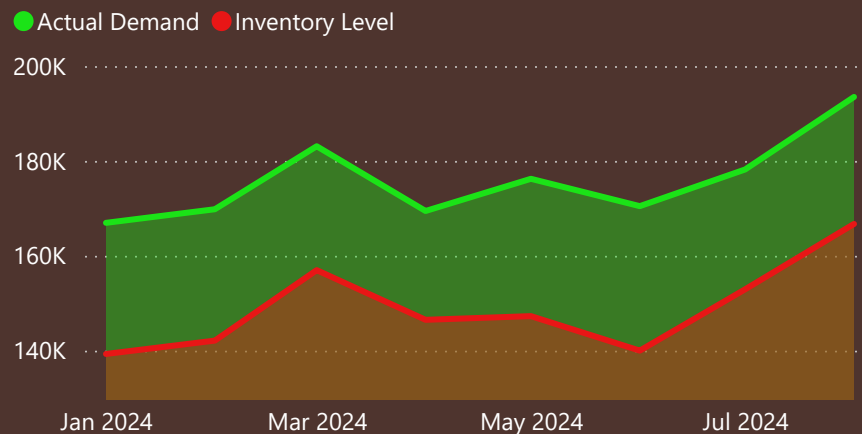
All

DATE

01-01-2024

16-09-2024

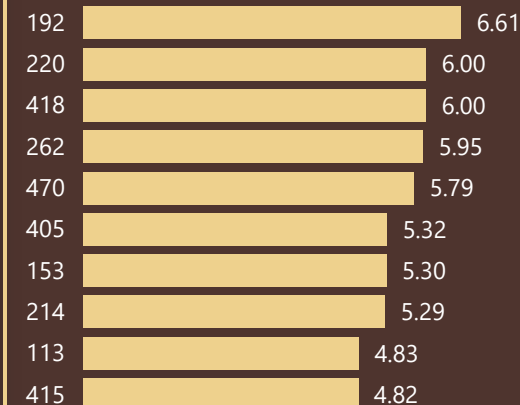
ACTUAL DEMAND VS INVENTORY LEVEL BY MONTHS



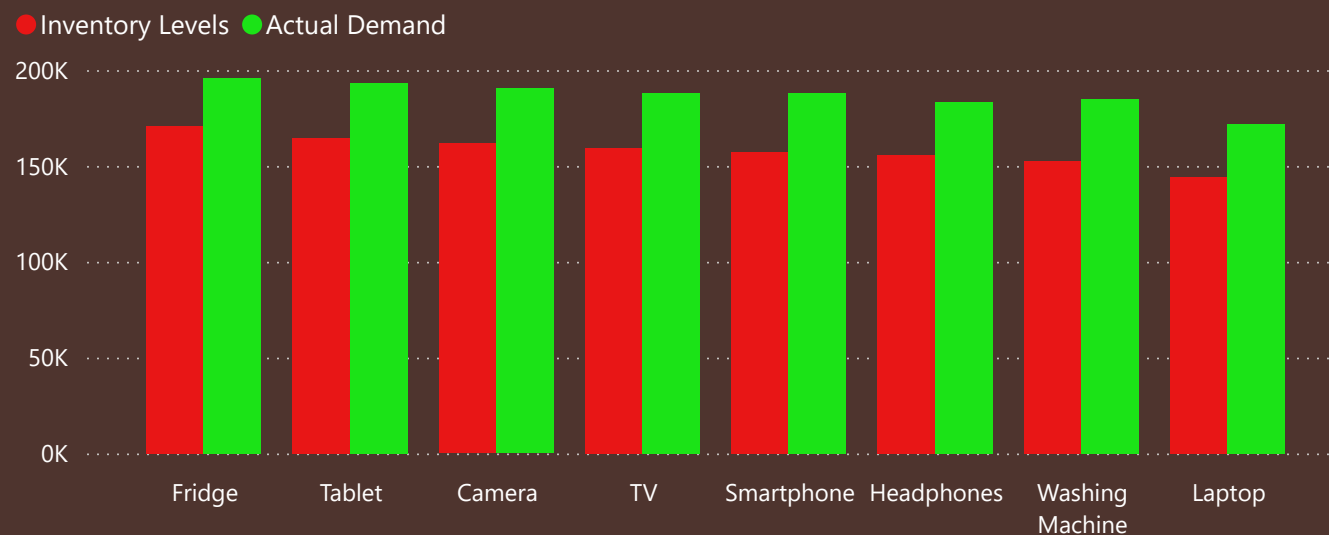
STOCKOUT% BY PRODUCTS



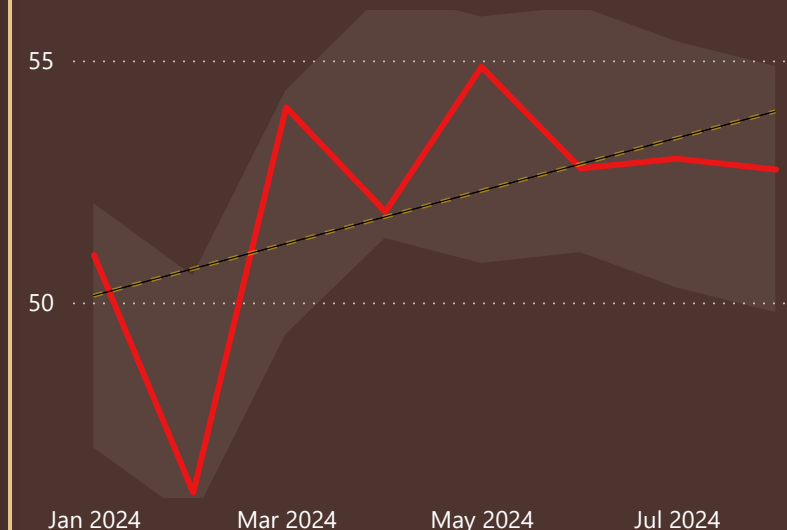
AVG LEAD TIME BY TOP SUPPLIER



INVENTORY LEVEL VS ACTUAL DEMAND BY PRODUCT NAME



STOCKOUT RATE BY MONTHS



SALES PERFORMANCE ANALYSIS

TOTAL QTY SALES



15K

AVG QUANTITY SOLD



41

MOST SOLD PRODUCT

Fridge

01-01-2024



16-09-2024



Category

All

Holiday

☐ False

☐ True

STORE ID

All

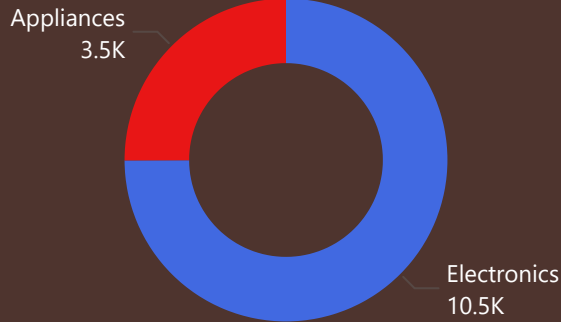
Location

All

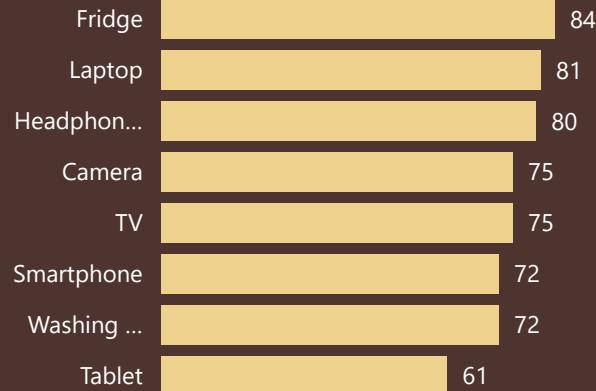
QUANTITY SOLD BY MONTHS



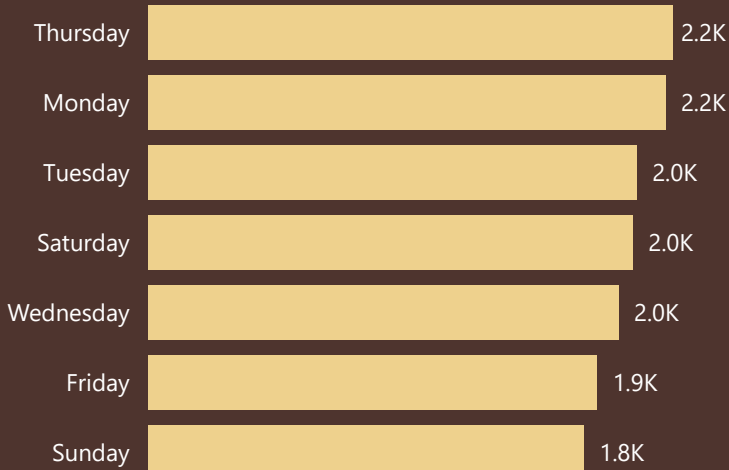
QUANTITY SOLD BY SUM



QUANTITY SOLD BY PRODUCT NAME

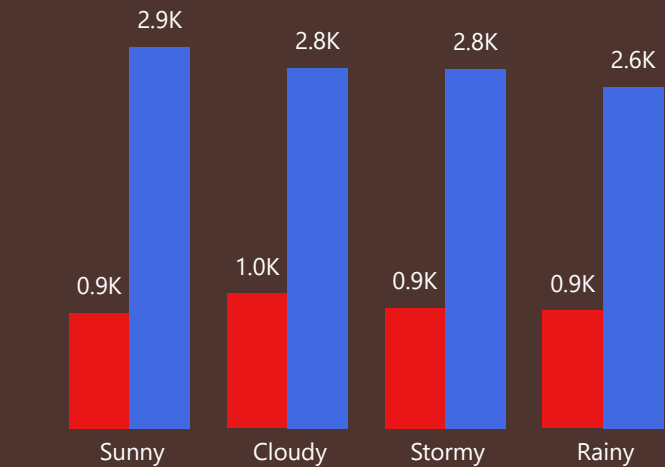


QUANTITY SOLD BY WEEKDAY



CATEGORY QUANTITY SOLD BY WEATHER

● Appliances ● Electronics



QUANTITY SOLD BY STORE ID



FORECASTING & DEMAND ANALYSIS

FORECAST ACCURACY%



ROUGH MAPE %



STOCKOUT %



Category

All

Holiday

☐ False

☐ True

STORE ID

All

Location

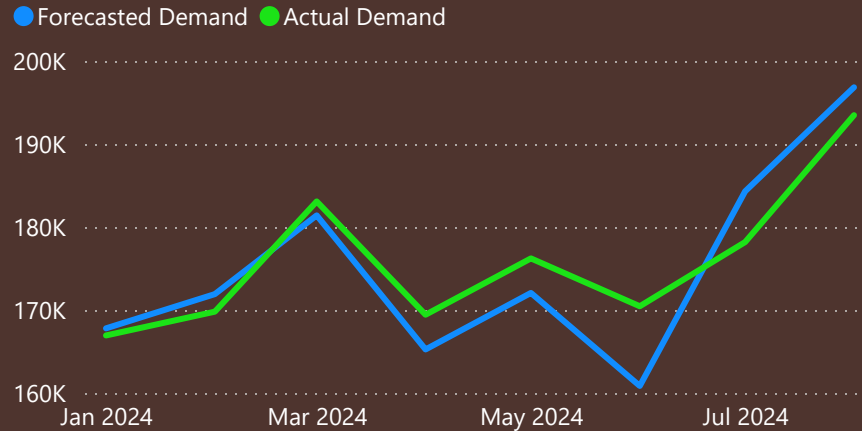
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DATE

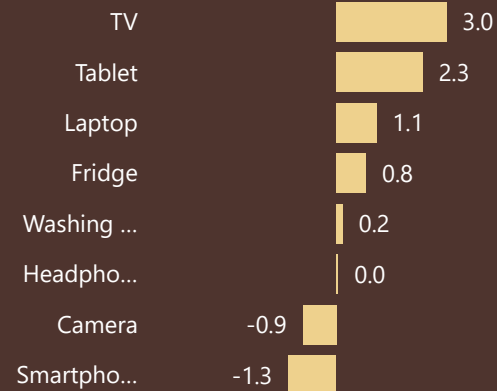
01-01-2024

16-09-2024

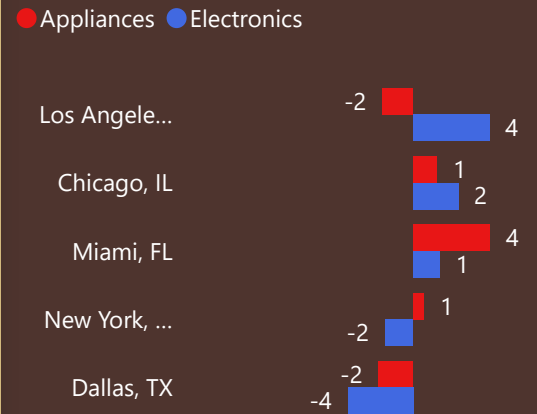
FORECASTED DEMAND VS ACTUAL DEMAND



%FORECAST ERROR BY PRODUCTS



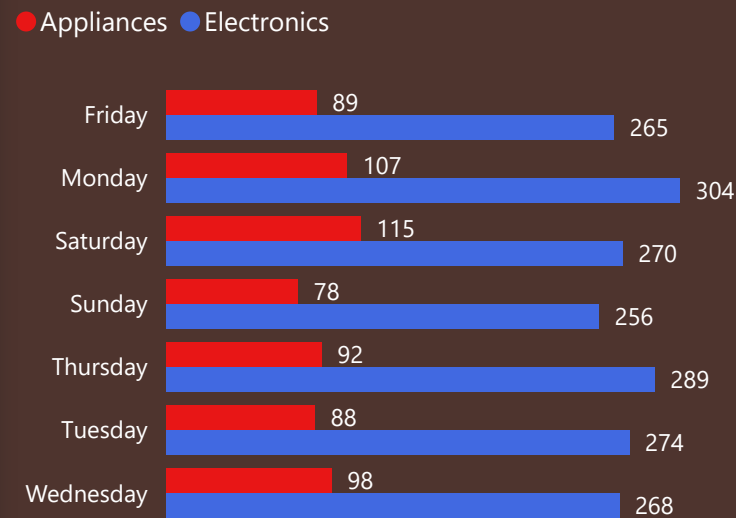
%FORECAST ERROR BY STORE LOCATIONS



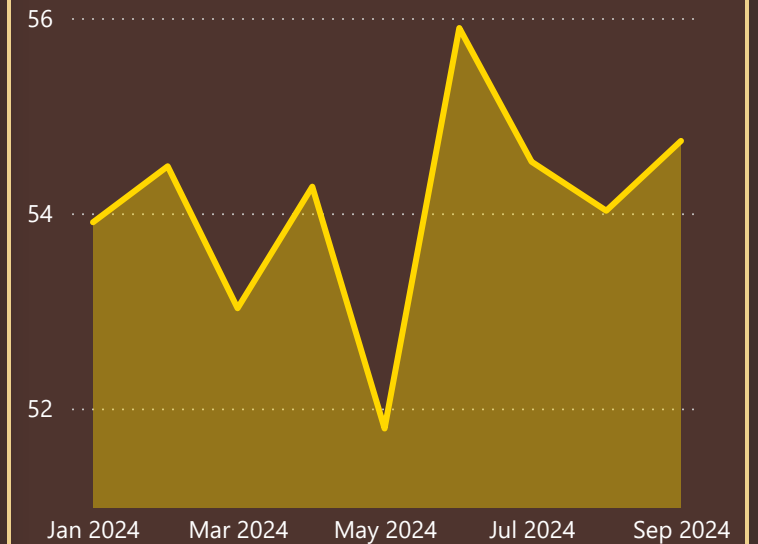
FORECASTING ACCURACY BY PRODUCTS



STOCKOUT BY WEEKDAY AND CATEGORY



FORECAST ACCURACY % BY MONTHS



KEY INSIGHTS AND STRATEGIC RECOMMENDATIONS

MOM SALES GROWTH ANALYSIS

Month	TOTAL SALES	Current Month Sales	Previous Month Sales	MOM Growth%
January	1672	1672		
July	1833	1833	1613	13.64%
May	1768	1768	1668	6.00%
February	1674	1674	1672	0.12%
March	1809	1809	1674	8.06%
June	1613	1613	1768	-8.77%
April	1668	1668	1809	-7.79%
August	1968	1968	1833	7.36%

AVG MOM GROWTH RATE%



2.7%



Consistent Yet Fluctuating Sales Trends! The average MoM growth rate is **2.66%**, showing a stable but uneven sales trend. While **March (+8.06%)**, **May (+6.00%)**, **July (+13.64%)**, and **August (+7.36%)** saw strong increases, **April (-7.79%)** and **June (-8.77%)** experienced sharp declines.



Possible Reasons for Growth Fluctuations:

- ◆ **Seasonal Demand Variations** – Certain months may see higher or lower customer demand 📅
- ◆ **Promotions & Discounts** – Spikes in sales could be linked to seasonal offers or marketing campaigns 🎯
- ◆ **Stock Availability Issues** – Sudden drops indicate stockouts or supply chain delays 📦
- ◆ **Market Trends & Customer Behavior** – Shifts in consumer preferences may have influenced sales 🌐



Business Recommendations:

- ◆ **Stabilize Declining Months** – Investigate April & June's sales drops to prevent future losses 🔍
- ◆ **Leverage Peak Months** – Reinforce marketing strategies used in March, July & August 🚀
- ◆ **Optimize Inventory Planning** – Ensure adequate stock to prevent shortages during demand spikes 📦
- ◆ **Data-Driven Promotions** – Align discounts with historical high-growth periods to maximize sales 💡



STOCKOUT AND FORECAST ANALYSIS

STOCKOUT %



51.86

FORECAST ACCURACY%



54

⚠️ **High Stockout Alert!** With a **51.86% stockout rate**, more than half of the demanded products were unavailable, leading to **lost sales opportunities and customer dissatisfaction**. This suggests **serious supply chain inefficiencies** that need immediate attention.

📊 **Moderate Forecast Accuracy!** The current **forecast accuracy is 54%**, indicating that while predictions are somewhat reliable, there's **significant room for improvement**. This suggests that **almost half of the actual demand is not aligning with forecasts**, which could impact inventory planning and business decisions.