ANALYTICS REPORT

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■ SECTION 1: WHAT IS HAPPENING

Metric	Value
Total Records	10
Total Variables	10
Data Quality	100.0%
Analysis Date	2026-01-29

Key Performance Metrics:

Metric	Current	Average	Min	Max	Trend
Calls for Service	130.00	129.50	110.00	145.00	Increasing
Emergency Response Calls	105.00	99.50	85.00	115.00	Increasing
Fire Incidents	33.00	32.10	25.00	40.00	Increasing
Medical Incidents	62.00	59.50	50.00	70.00	Increasing
Property Damage (USD)	650000.00	590000.00	450000.00	750000.00	Increasing

■ SECTION 2: HOW IT'S HAPPENING

Trend Analysis:

Metric	Direction	Strength	R²	Growth Rate	Explanation
Calls for Service	Upward	Weak	0.156	1.42 per period	Calls for Service is slightly increasing over time with R² = 0.156. This trend i...
Emergency Response Calls	Upward	Moderate	0.170	1.30 per period	Emergency Response Calls is moderately increasing over time with R² = 0.170. Thi...
Fire Incidents	Upward	Weak	0.006	0.12 per period	Fire Incidents is slightly increasing over time with R² = 0.006. This trend is w...
Medical Incidents	Upward	Moderate	0.167	0.79 per period	Medical Incidents is moderately increasing over time with R² = 0.167. This trend...
Property Damage (USD)	Upward	Weak	0.136	12121.21 per period	Property Damage (USD) is slightly increasing over time with R² = 0.136. This tre...

Key Relationships:

Variable 1	Variable 2	Correlation	Type	Explanation
Calls for Service	Emergency Response Calls	0.902	Positive	When Calls for Service goes up, Emergency Response Calls typically increases. This strong positive
Calls for Service	Fire Incidents	0.805	Positive	When Calls for Service goes up, Fire Incidents typically increases. This strong positive relationshi...
Calls for Service	Medical Incidents	0.845	Positive	When Calls for Service goes up, Medical Incidents typically increases. This strong positive relation...
Calls for Service	Property Damage (USD)	0.916	Positive	When Calls for Service goes up, Property Damage (USD) typically increases. This strong positive rel...
Emergency Response Calls	Fire Incidents	0.792	Positive	When Emergency Response Calls goes up, Fire Incidents typically increases. This strong positive re...
Emergency Response Calls	Medical Incidents	0.915	Positive	When Emergency Response Calls goes up, Medical Incidents typically increases. This strong positiv...
Emergency Response Calls	Property Damage (USD)	0.958	Positive	When Emergency Response Calls goes up, Property Damage (USD) typically increases. This strong...
Emergency Response Calls	Average Response Time (min)	-0.527	Negative	When Emergency Response Calls goes up, Average Response Time (min) typically decreases. This...
Fire Incidents	Medical Incidents	0.778	Positive	When Fire Incidents goes up, Medical Incidents typically increases. This strong positive relationshi...
Fire Incidents	Property Damage (USD)	0.885	Positive	When Fire Incidents goes up, Property Damage (USD) typically increases. This strong positive relati...
Medical Incidents	Property Damage (USD)	0.942	Positive	When Medical Incidents goes up, Property Damage (USD) typically increases. This strong positive re...

■ SECTION 3: WHAT WILL HAPPEN

Predictive Forecasting & Future Outlook

Multi-Period Forecasts:
Predictions for next 1, 3, 5, and 10 periods with confidence intervals

Metric	Current	+1	+3	+5	+10	Change	Confidence	CI
Calls for Service	130.00	137.33	140.18	143.03	150.15	10.0%	Low	±18.65
Emergency Response Calls	105.00	106.67	109.27	111.88	118.39	6.6%	Low	±16.19
Fire Incidents	33.00	32.73	32.96	33.19	33.77	0.6%	Low	±8.45
Medical Incidents	62.00	63.87	65.45	67.04	71.01	8.1%	Low	±9.97
Property Damage (USD)	650000.00	656666.67	680909.09	705151.52	765757.58	8.5%	Low	±171853.88

Forecast Explanations:

Calls for Service: Based on historical patterns (R^2=0.156), Calls for Service is forecasted to increase by 10.0% over the next 5 periods. The prediction has low reliability with a confidence interval of ±18.65.

Emergency Response Calls: Based on historical patterns (R^2=0.170), Emergency Response Calls is forecasted to increase by 6.6% over the next 5 periods. The prediction has low reliability with a confidence interval of ±16.19.

Fire Incidents: Based on historical patterns (R^2=0.006), Fire Incidents is forecasted to increase by 0.6% over the next 5 periods. The prediction has low reliability with a confidence interval of ±8.45.

Medical Incidents: Based on historical patterns (R^2=0.167), Medical Incidents is forecasted to increase by 8.1% over the next 5 periods. The prediction has low reliability with a confidence interval of ±9.97.

Property Damage (USD): Based on historical patterns (R^2=0.136), Property Damage (USD) is forecasted to increase by 8.5% over the next 5 periods. The prediction has low reliability with a confidence interval of ±171853.88.

■ STRATEGIC RECOMMENDATIONS

Prioritized, Actionable Recommendations with Timelines & KPIs

Priority	Category	Recommendation	Action Plan (Top 3)	Timeline	KPIs
High	Growth Opportunity	Capitalize on Emergency Response Calls growth momentum	1. Allocate additional resources to capitalize on growth 2. Scale successful initiatives 3. Expand market reach	30-90 days	Target: Maintain R² >0.170, Increase growth rate by
High	Growth Opportunity	Capitalize on Medical Incidents growth momentum	1. Allocate additional resources to capitalize on growth 2. Scale successful initiatives 3. Expand market reach	30-90 days	Target: Maintain R² >0.167, Increase growth rate by
Medium	Strategic Insight	Leverage Calls for Service-Emergency Response Calls relationship	1. Use Calls for Service as leading indicator for Emergency Response Calls 2. Set up automated alerts when Calls for Service changes >10% 3. Build predictive model using this relationship	14-30 days	Forecasting accuracy >85%, Response time to cha
Medium	Strategic Insight	Leverage Calls for Service-Fire Incidents relationship	1. Use Calls for Service as leading indicator for Fire Incidents 2. Set up automated alerts when Calls for Service changes >10% 3. Build predictive model using this relationship	14-30 days	Forecasting accuracy >85%, Response time to cha
Medium	Strategic Insight	Leverage Calls for Service-Medical Incidents relationship	1. Use Calls for Service as leading indicator for Medical Incidents 2. Set up automated alerts when Calls for Service changes >10% 3. Build predictive model using this relationship	14-30 days	Forecasting accuracy >85%, Response time to cha