

# Amazon Last-Mile Logistics Dashboard

Total Orders

44K

Average Delivery Time

124.91

Late Deliveries %

0.51

On Time Deliveries %

0.49

Missing Traffic Records

91

Missing Weather Records

91

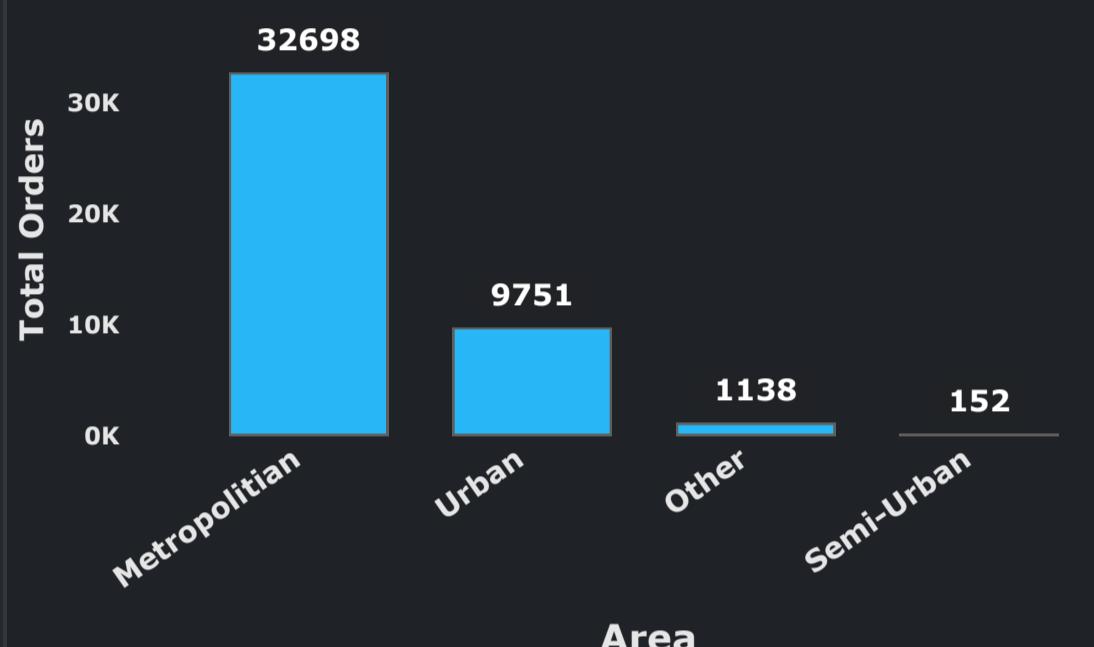
Invalid Store Locations

4K

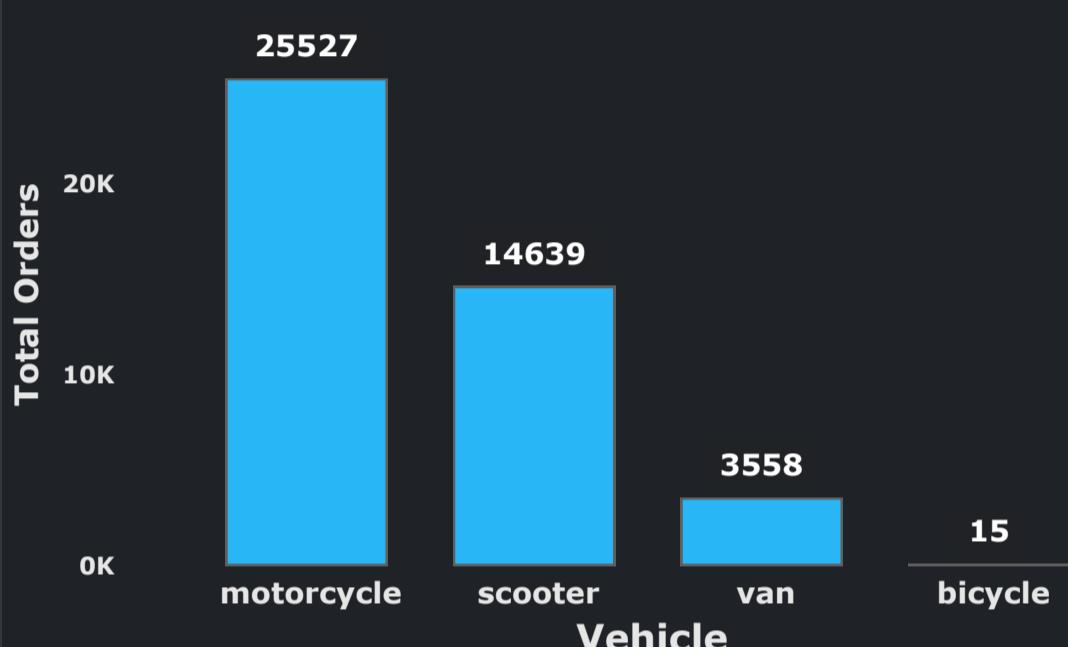
Deliveries by Underage Agents

38

## Total Orders by Area



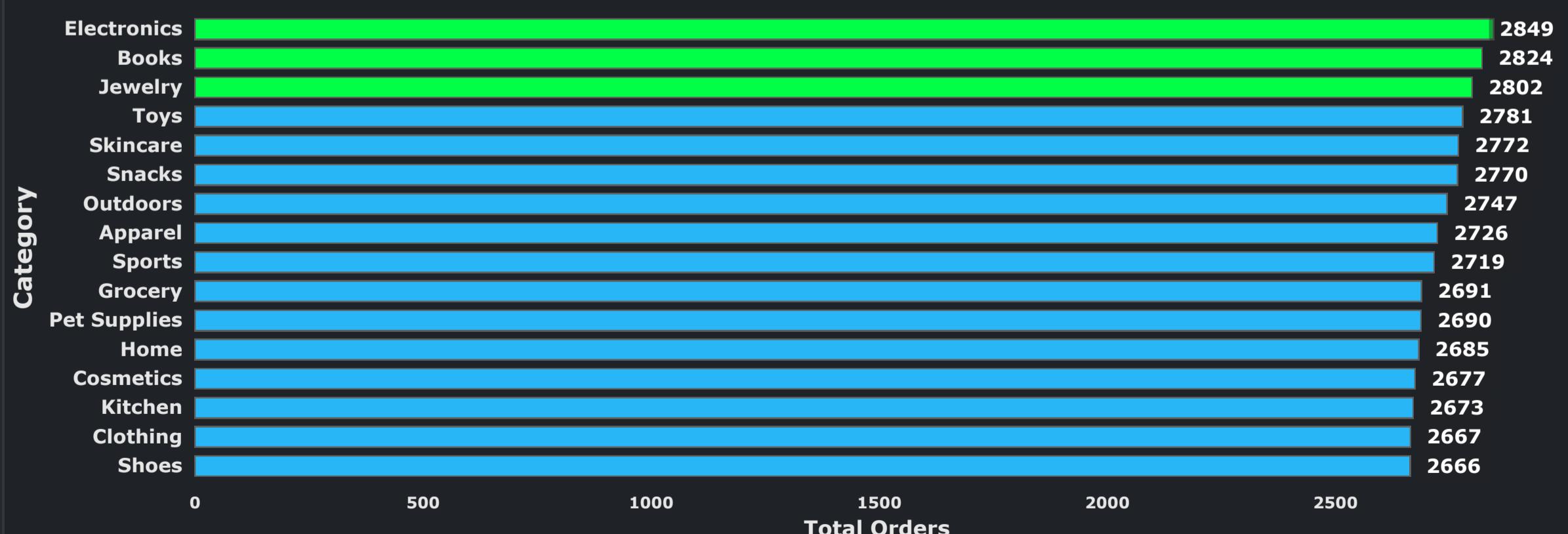
## Total Orders by Vehicle



## Total Orders by Order Hour

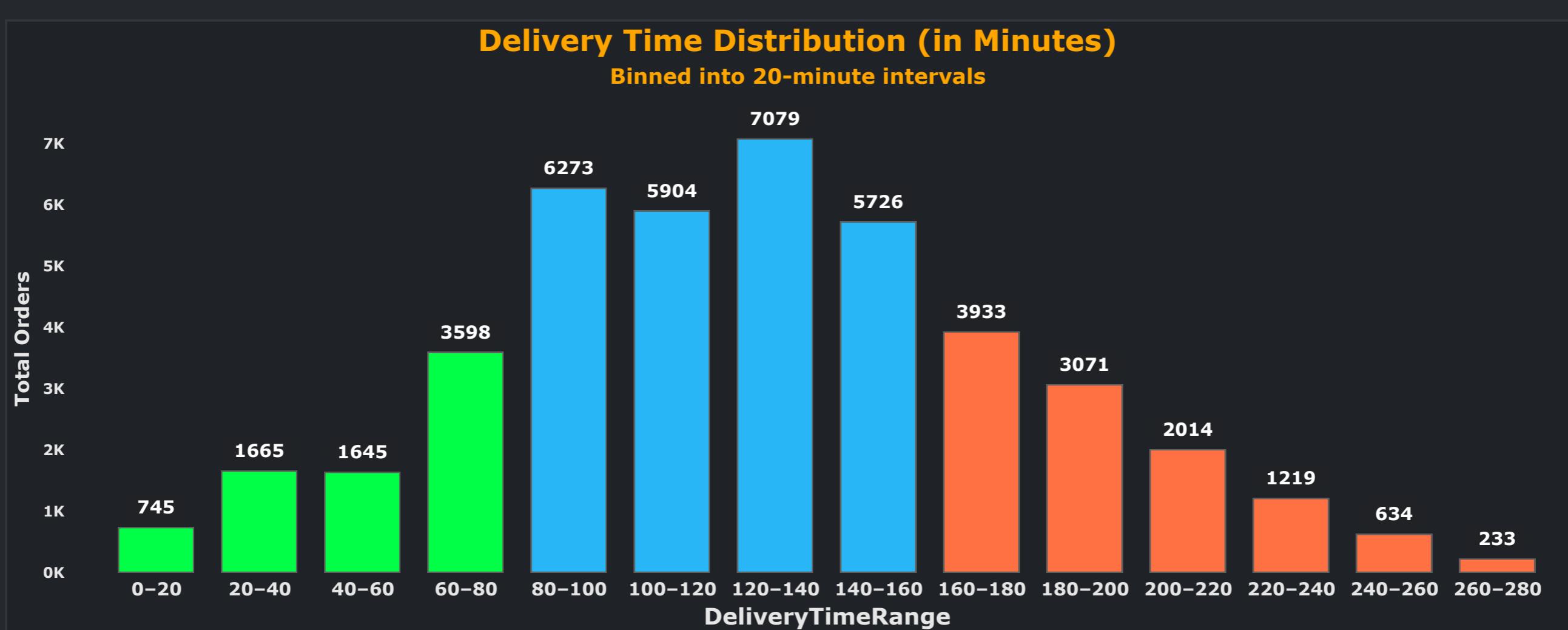
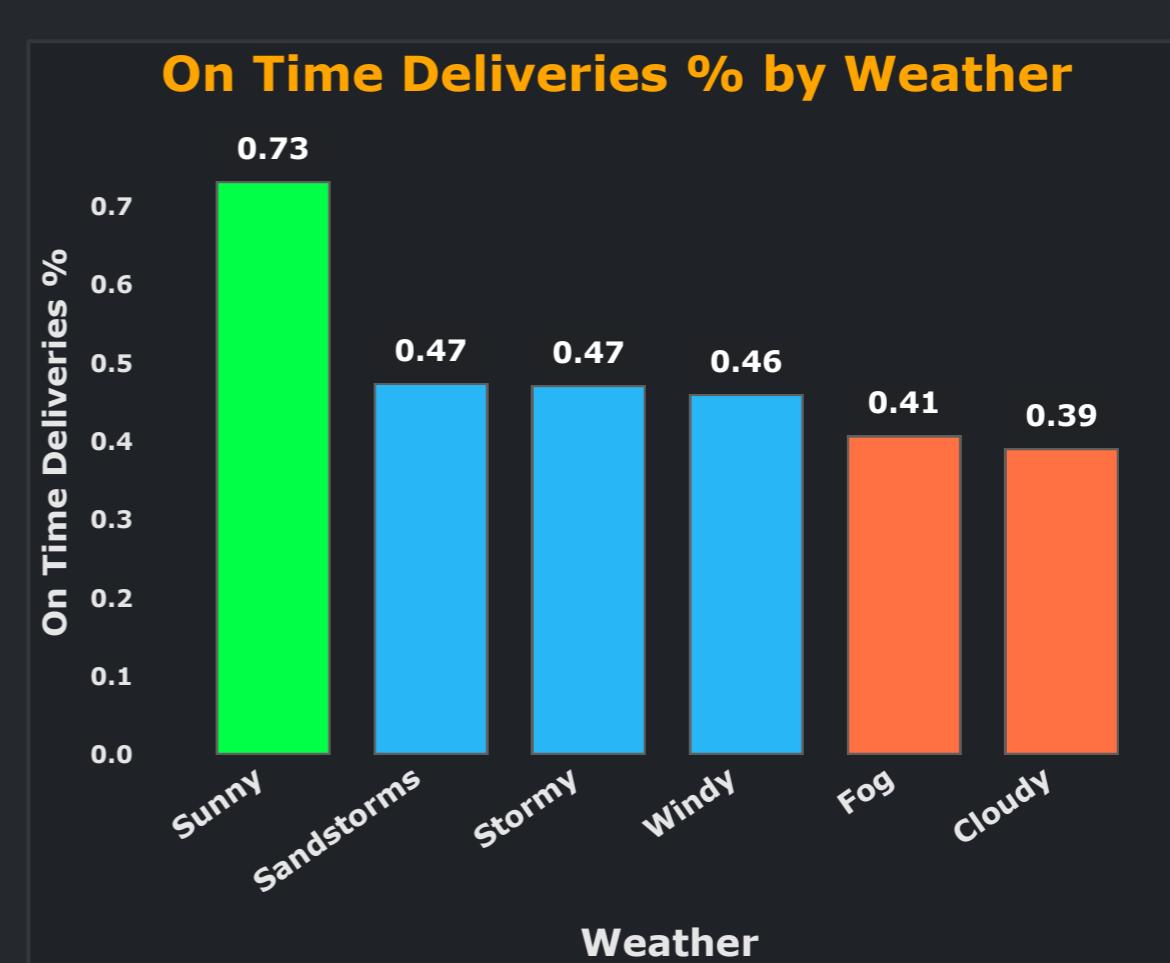
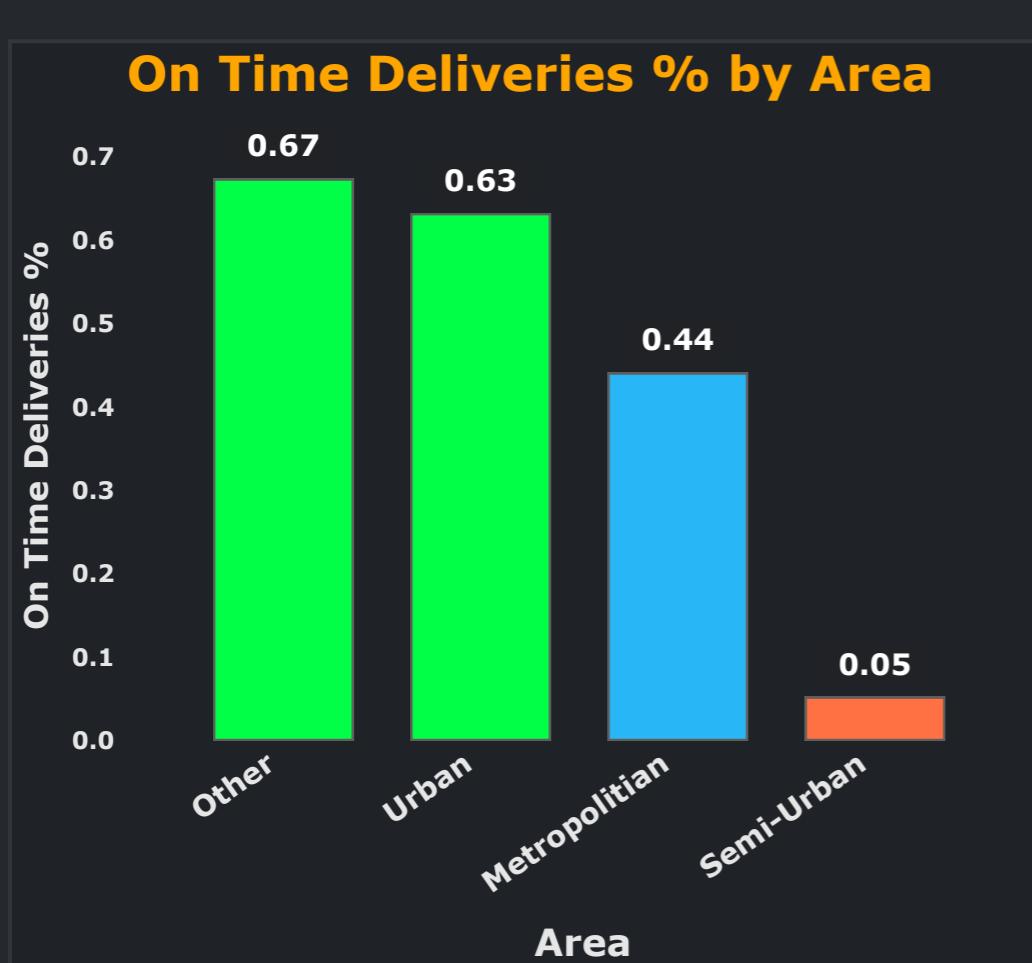
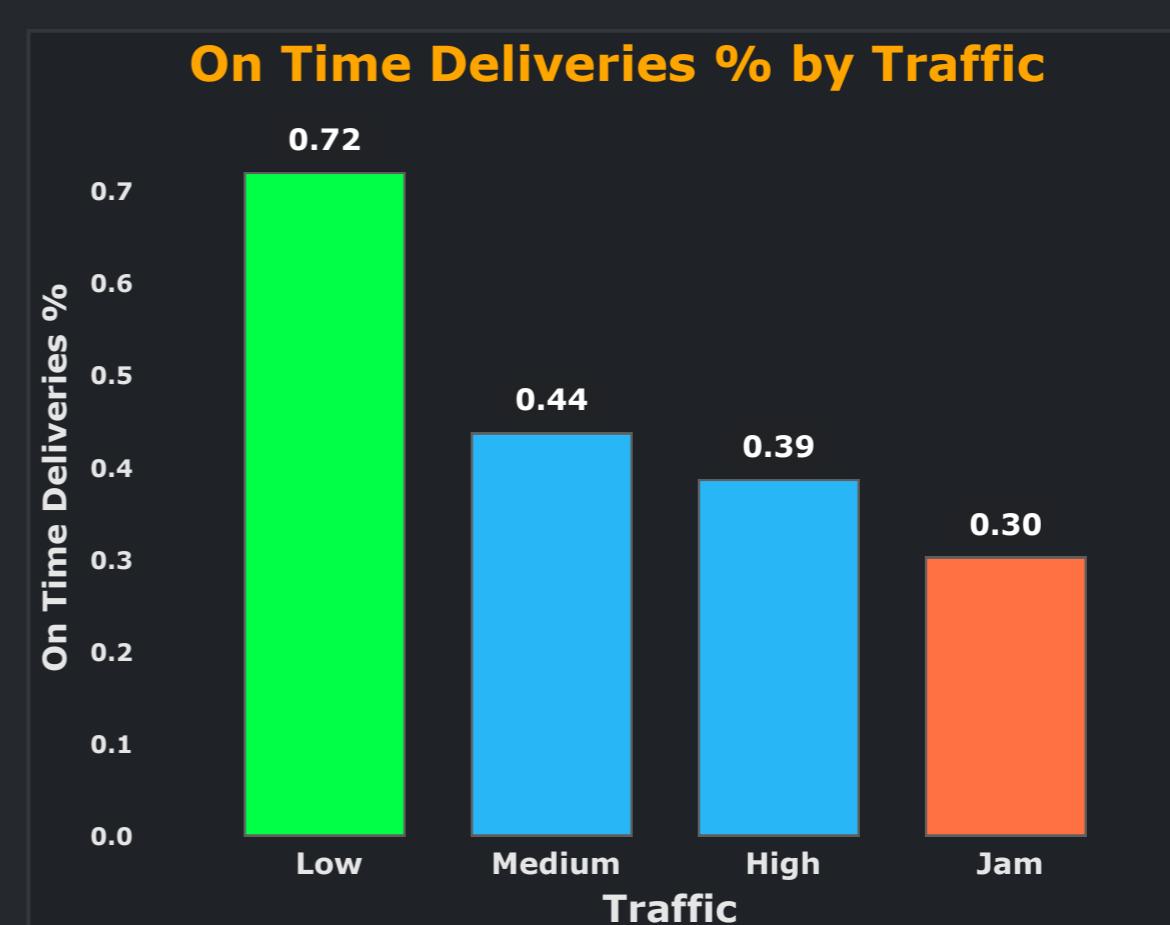
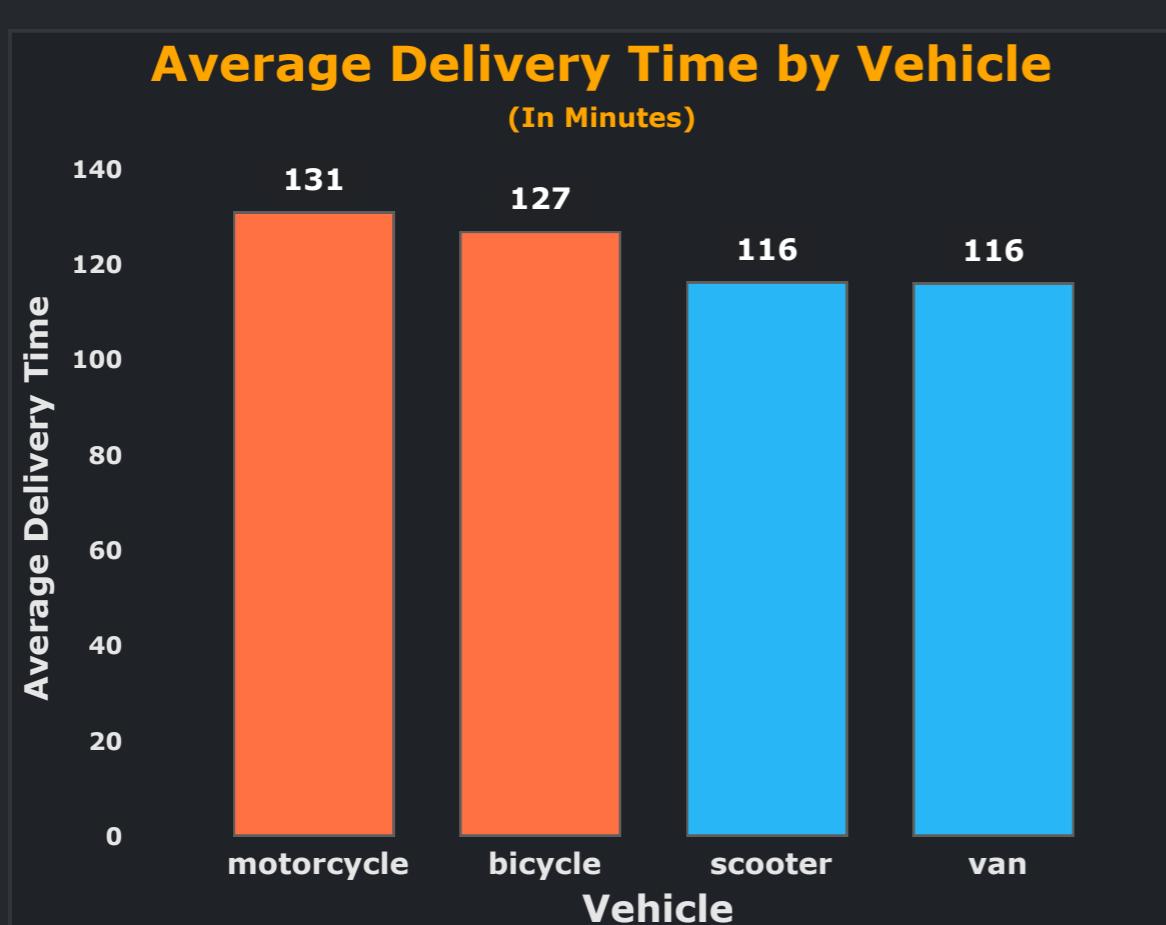
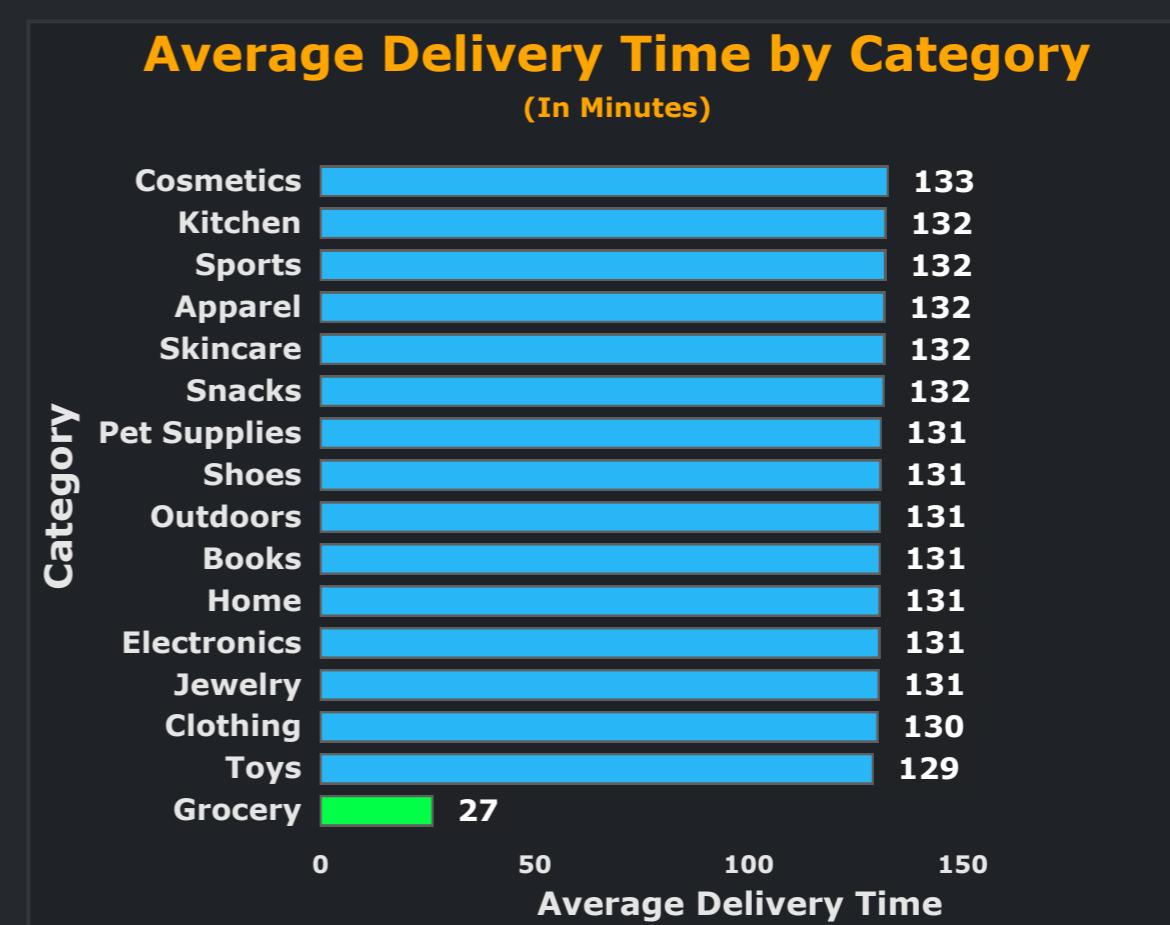
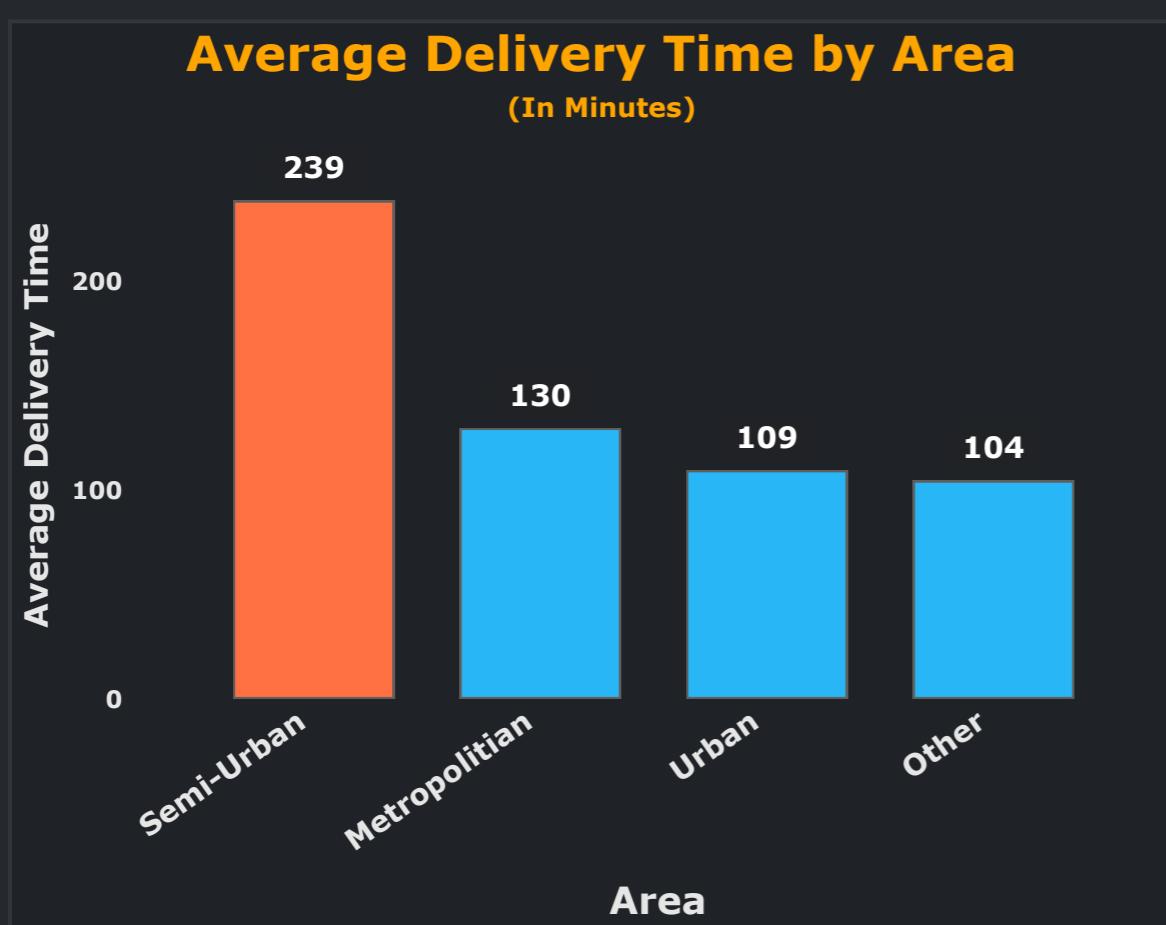


## Total Orders by Category

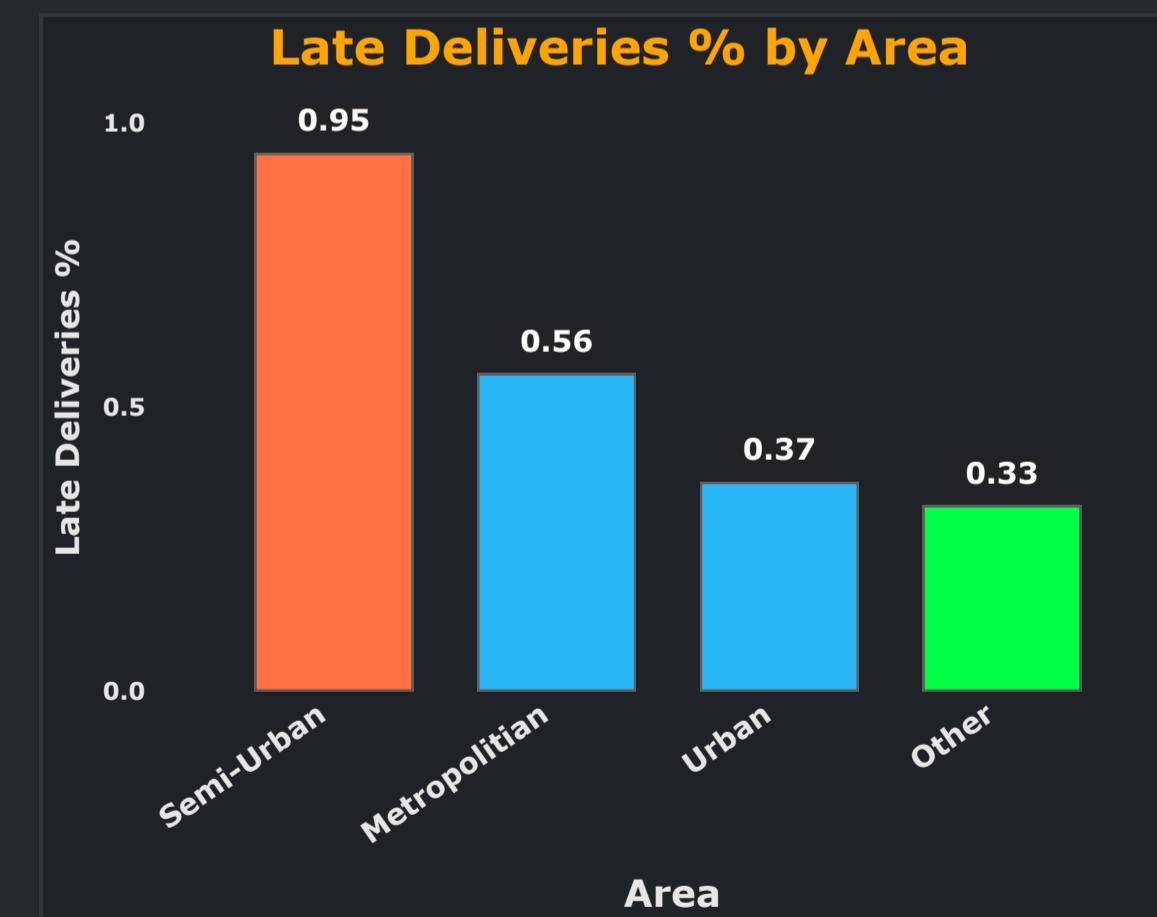
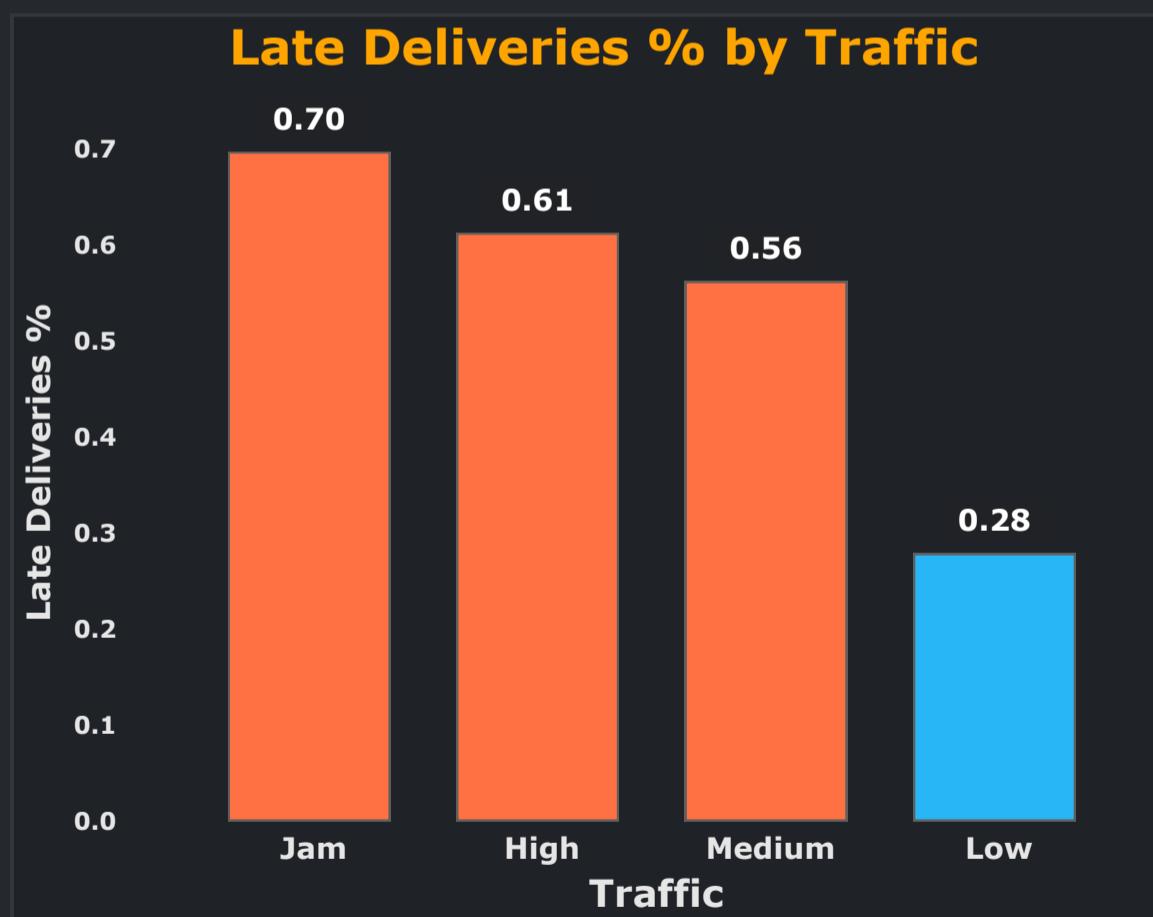
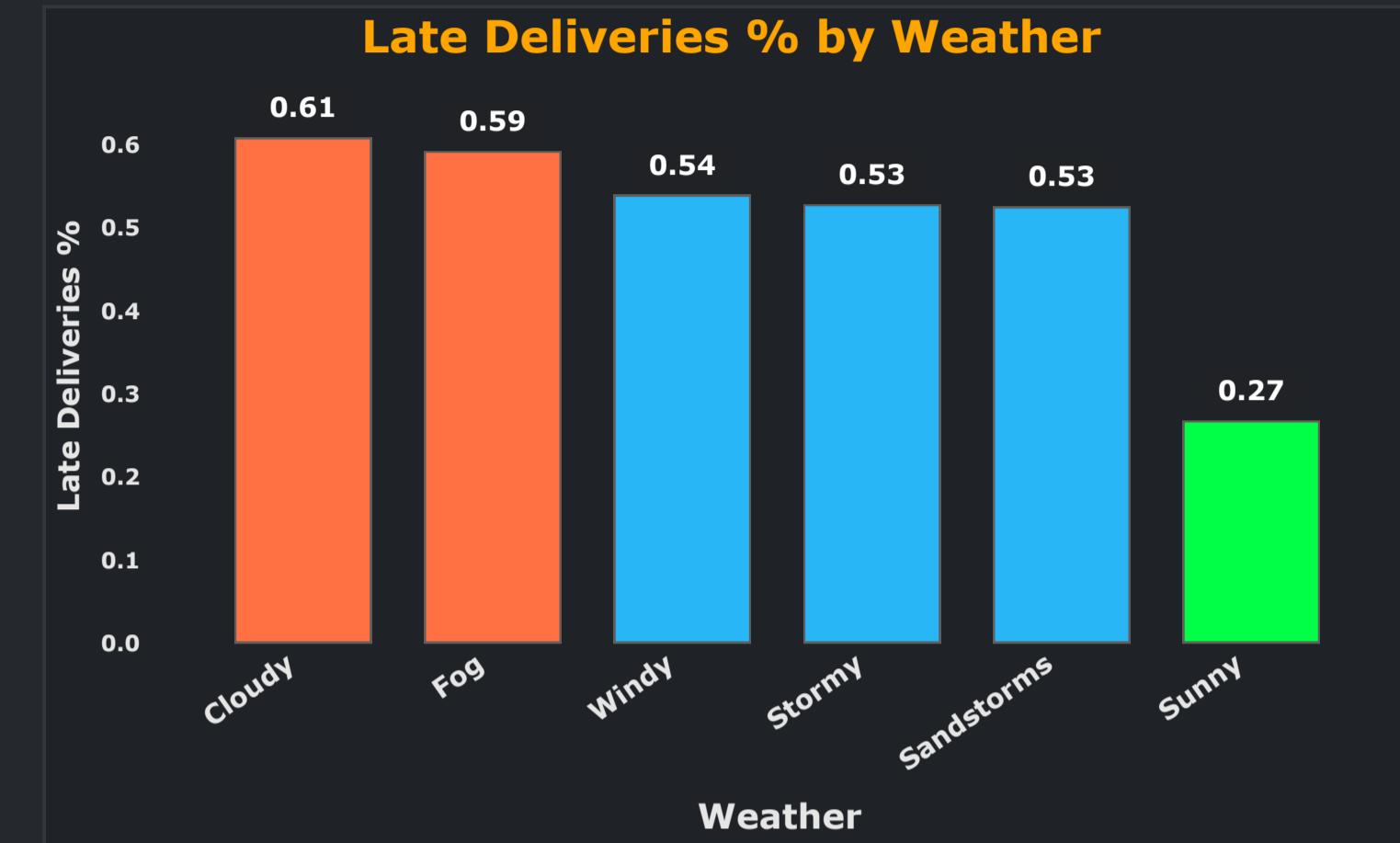
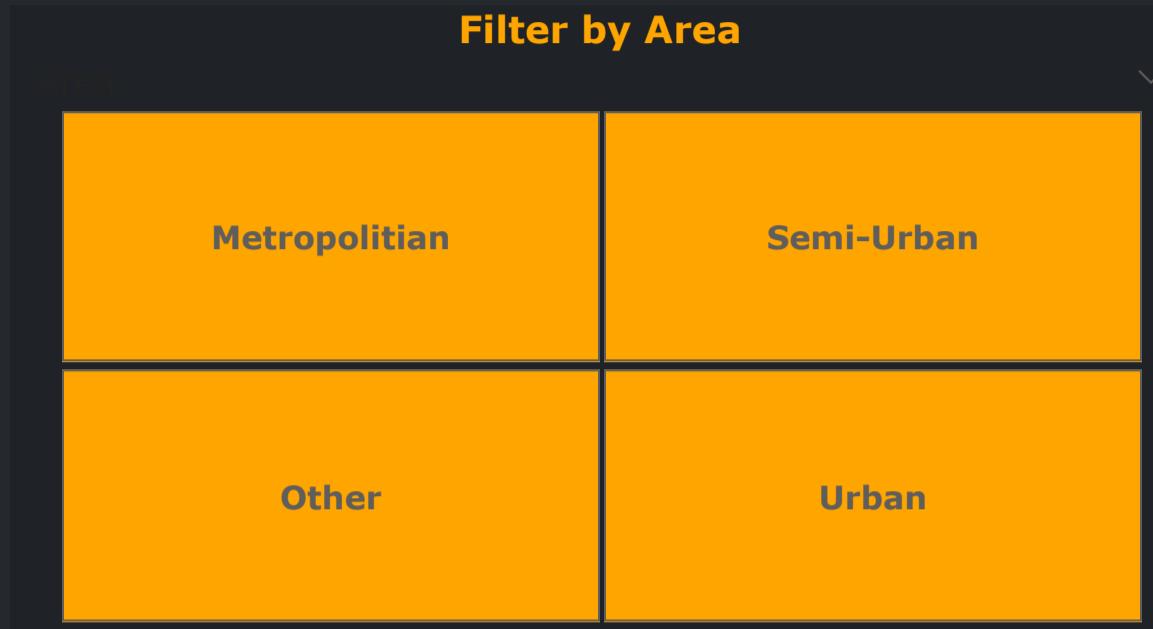


Company-wide metrics overview for Amazon last-mile delivery operations

# Delivery Performance



# Late Delivery Analysis



# Operational Insights

**Orders by Vehicle Type and Traffic Condition**

Vehicle		High	Jam	Low	Medium
<b>motorcycle</b>	8	2529	7960	8821	6209
<b>scooter</b>	32	1429	4625	4999	3554
<b>van</b>	36	338	1140	1179	865
<b>bicycle</b>	15				

**Orders by Category and Delivery Area**

Category	Metropolitan	Other	Semi-Urban	Urban
<b>Apparel</b>	2049	62	13	602
<b>Books</b>	2086	72	7	659
<b>Clothing</b>	1999	68	9	591
<b>Cosmetics</b>	1995	68	9	605
<b>Electronics</b>	2125	71	11	642
<b>Grocery</b>	2026	75	8	582
<b>Home</b>	1995	67	6	617
<b>Jewelry</b>	2071	77	14	640
<b>Kitchen</b>	2029	82	10	552
<b>Outdoors</b>	2048	59	5	635
<b>Pet Supplies</b>	2023	71	5	591
<b>Shoes</b>	2018	54	6	588
<b>Skincare</b>	2048	76	14	634
<b>Snacks</b>	2046	78	11	635
<b>Sports</b>	2057	76	11	575
<b>Toys</b>	2083	82	13	603

# Amazon Last-Mile Delivery - Performance Summary

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Deliveries by Underage Agents

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On Time Deliveries %

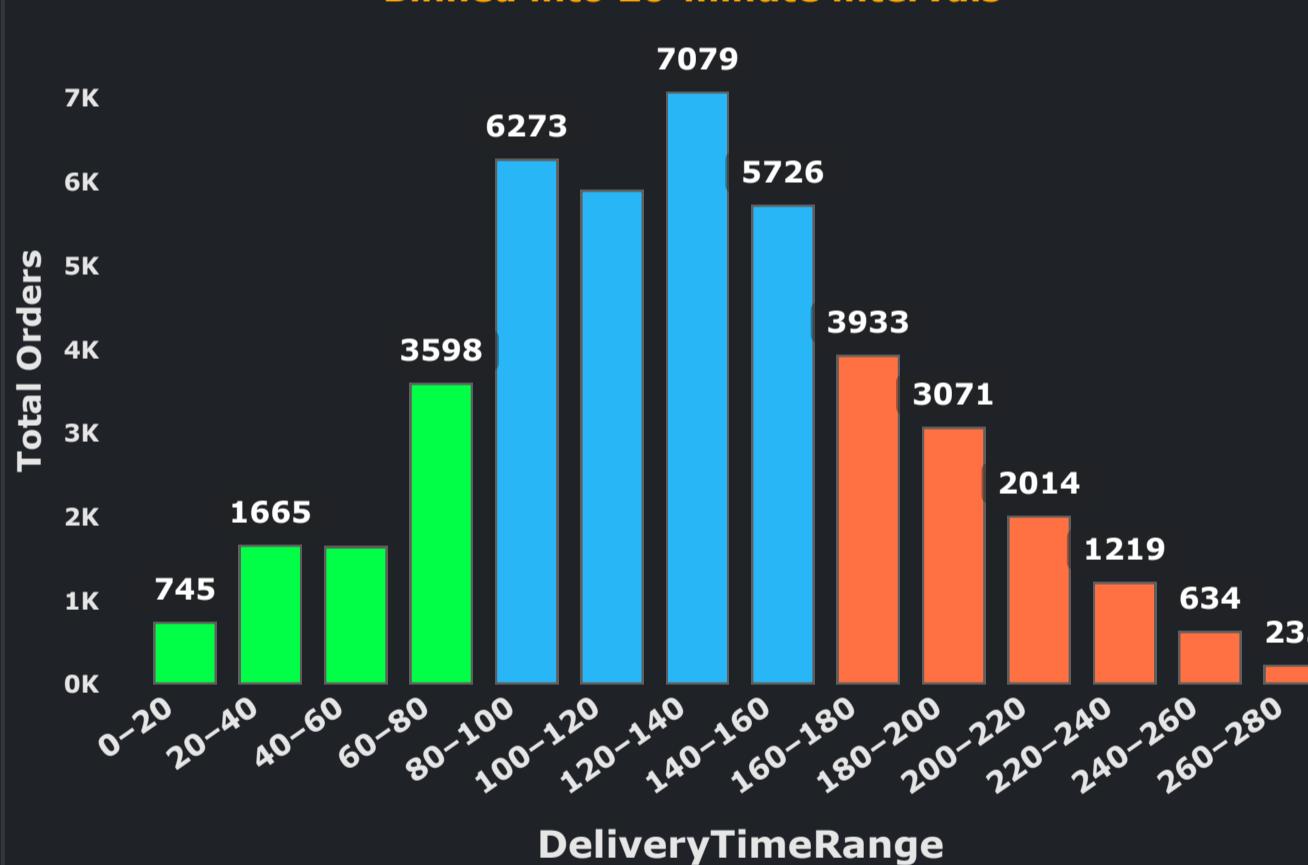
0.49

## Key Insights

- a. Metropolitan areas accounted for an approximate 62% of total orders.
- b. High-traffic zones show 150% more delays compared to low-traffic regions.
- c. 91 entries were missing in both the weather and traffic datasets (data quality issue).
- d. 38 orders were delivered by under-age agents (15 years old) — compliance risk.
- e. Cloudy weather conditions result in 126% more late deliveries compared to sunny weather.
- f. Electronics holds the position as the highest-selling category.
- g. 3,505 records are missing valid store location data, as both latitude and longitude are recorded as 0.
- h. Late deliveries exceed on-time deliveries even with a 120-minute delivery threshold, indicating systemic operational delays.
- i. Groceries demonstrate the highest delivery efficiency, recording the lowest average delivery time of 27 minutes.

**Delivery Time Distribution (in Minutes)**

Binned into 20-minute intervals



**Average Delivery Time by Category**

(In Minutes)



## Recommendations

- a. Optimize delivery agent staffing during peak order hours (18:00 – 24:00).
- b. Improve routing for high-traffic areas to reduce delays.
- c. Validate store GPS inputs and rectify the 3,505 records where coordinates are invalid (Lat/Long = 0).
- d. Address missing weather/traffic records with improved data logging.
- e. Investigate & remove under-age agents from deliveries.
- f. Recruit additional part-time delivery agents specifically to cover the high-demand window (e.g., 18:00 – 24:00).

**Top Issue Identified: Late deliveries exceed on-time deliveries, even with a generous 120-minute delivery threshold.**