

Foothills and Mile High RETAC Regional Medical Liaisons



PROJECT:	EMERGENT/NON-EMERGENT PATIENT TRANSPOT
TYPE:	DATA ANALYSIS
EFFECTIVE:	7/6/2016
REVISED:	
REVIEWED:	QUARTERLY

Objective

To evaluate the percentage of emergent and non-emergent patient transports at the regional level.

What do we want to accomplish?

To acquire an understanding of how often and why patients are transported emergent to a receiving facility.

Benefit

1. Frequency of crashes while driving emergent - According to the NHTSA in a review of ground ambulances crashes from 1992 to 2011, "Of the annual mean 29 fatal crashes involving an ambulance: 58% (were) while in emergency use, 42% (were) while in non-emergency use. Of the estimated annual mean 1,500 injury crashes: 59% (were) while in emergency use, 34% (were) while in non-emergency use." As noted in the presentation, "These percentages do not account for the proportion of time ambulances spent in emergency vs. non-emergency mode"
2. Public safety – According to NHTSA, occupants of other vehicles (those not physically inside the ambulance) accounted for 63% of the fatalities and 54% of the injured persons. Non-occupant of any vehicle accounted for 12% of the fatalities.
3. Regional benchmark – To establish a regional benchmark for an individual agency to use as a comparison when reviewing emergent and non-emergent transports to receiving facilities.

Evidence based sources

The National Highway Traffic Safety Administration and Ground Ambulance Crashes; <http://www.ems.gov/ambulancesafety.html>, April 2014

Foothills and Mile High RETAC Region
Non-Emergent/Emergent Patient Transport 2015

Colorado
Search Criteria in Imagetrend EMS Service Bridge Report Writer 2.0
Incident Date (IT5.44) - "2015"
Type of Service Requested (E2.4) - "911 Response (Scene)"
Incident Patient Disposition - "Treated, Transported by EMS"

Transport Mode From Scene (E20.14)	Count	Percent
No Lights or Sirens	163,832	89.0%
Lights and Sirens	12,949	7.0%
Not Applicable	3,467	1.9%
Not Available	1,333	0.7%
Not Recorded	1,145	0.6%
Initial No Lights or Sirens, Upgraded to Lights and Sirens	719	0.4%
Initial Lights and Sirens, Downgraded to No Lights or Sirens	374	0.2%
Blanks	257	0.1%
Lights Only - No Sirens	29	0.0%
Total	184,105	

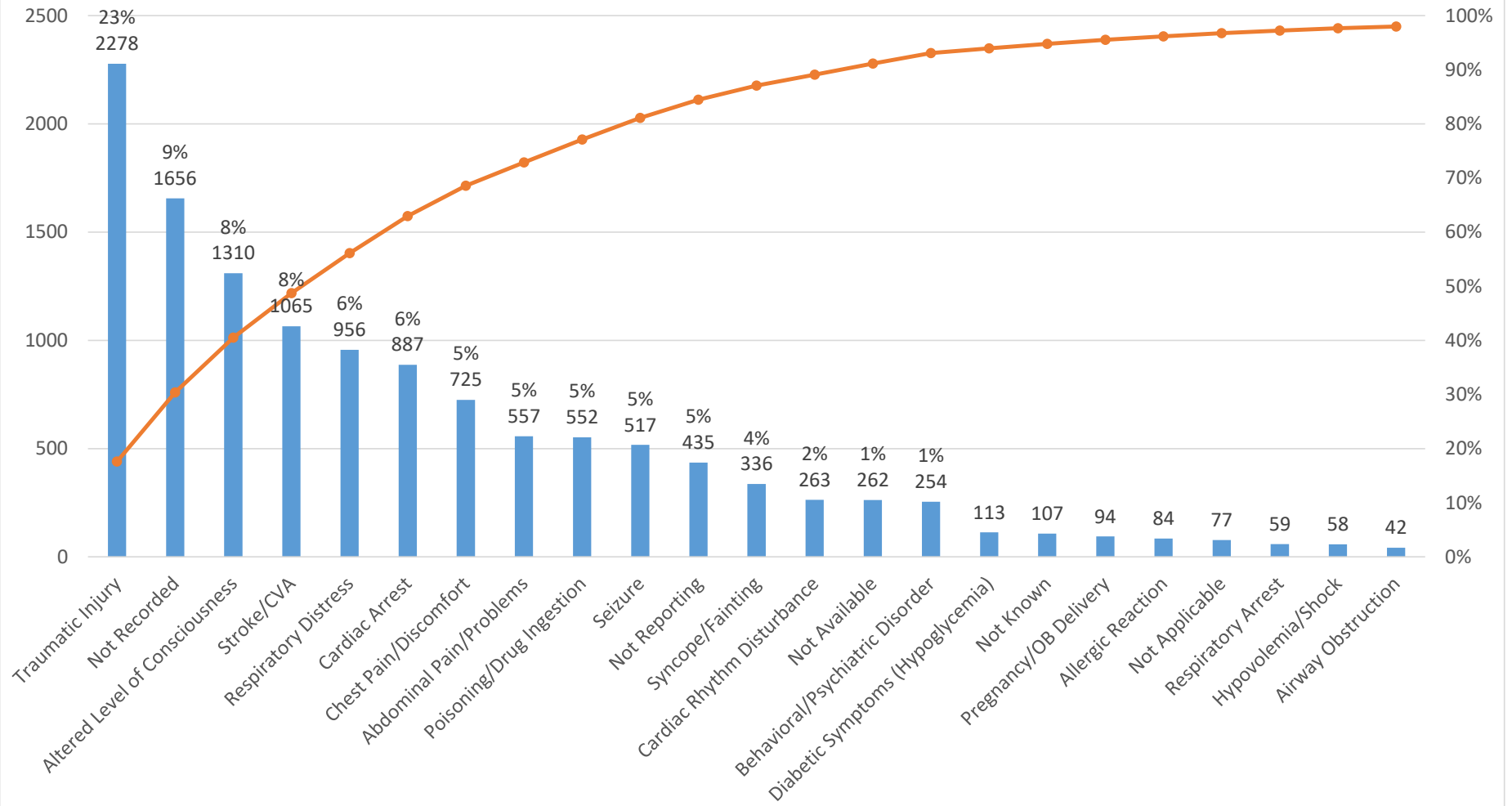
National
Search Criteria from: http://nemsis.org/reportingTools/reports/nationalReports/createAReport.htm
Year - Quarter - Month - Day = "Calendar 2015"
Incident Patient Disposition = "Treated, Transported by EMS"
Type of Service Requested = "911 Response (Scene)"

Transport Mode From Scene	Count	Percent
No Lights or Sirens	11,514,955	73.3%
Lights and Sirens	3,393,608	21.6%
Not Applicable	301,391	1.9%
Not Reporting	146,025	0.9%
Not Recorded	143,491	0.9%
Initial Lights and Sirens, Downgraded to No Lights or Sirens	91,763	0.6%
Initial No Lights or Sirens, Upgraded to Lights and Sirens	85,204	0.5%
Not Known	18,226	0.1%
Not Available	14,991	0.1%
Total	15,709,654	

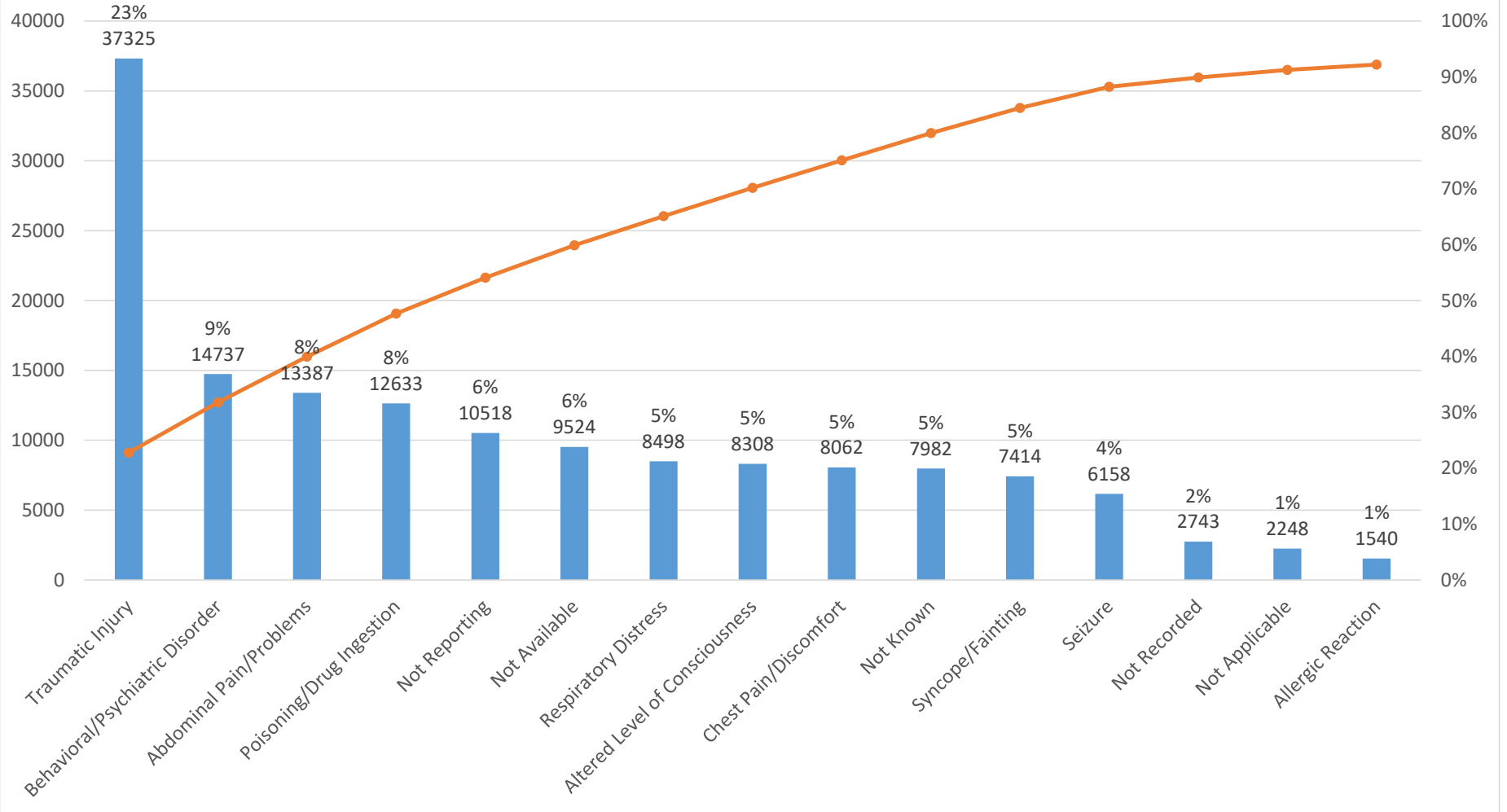
Comparison of Colorado to National - No Lights or Sirens vs. Lights and Sirens		
Colorado		
No Lights or Sirens	91,074	91.8%
Lights and Sirens	8,115	8.2%
Total	99,189	

National		
No Lights or Sirens	11,514,955	73.3%
Lights and Sirens	3,393,608	21.6%
Total	14,908,563	

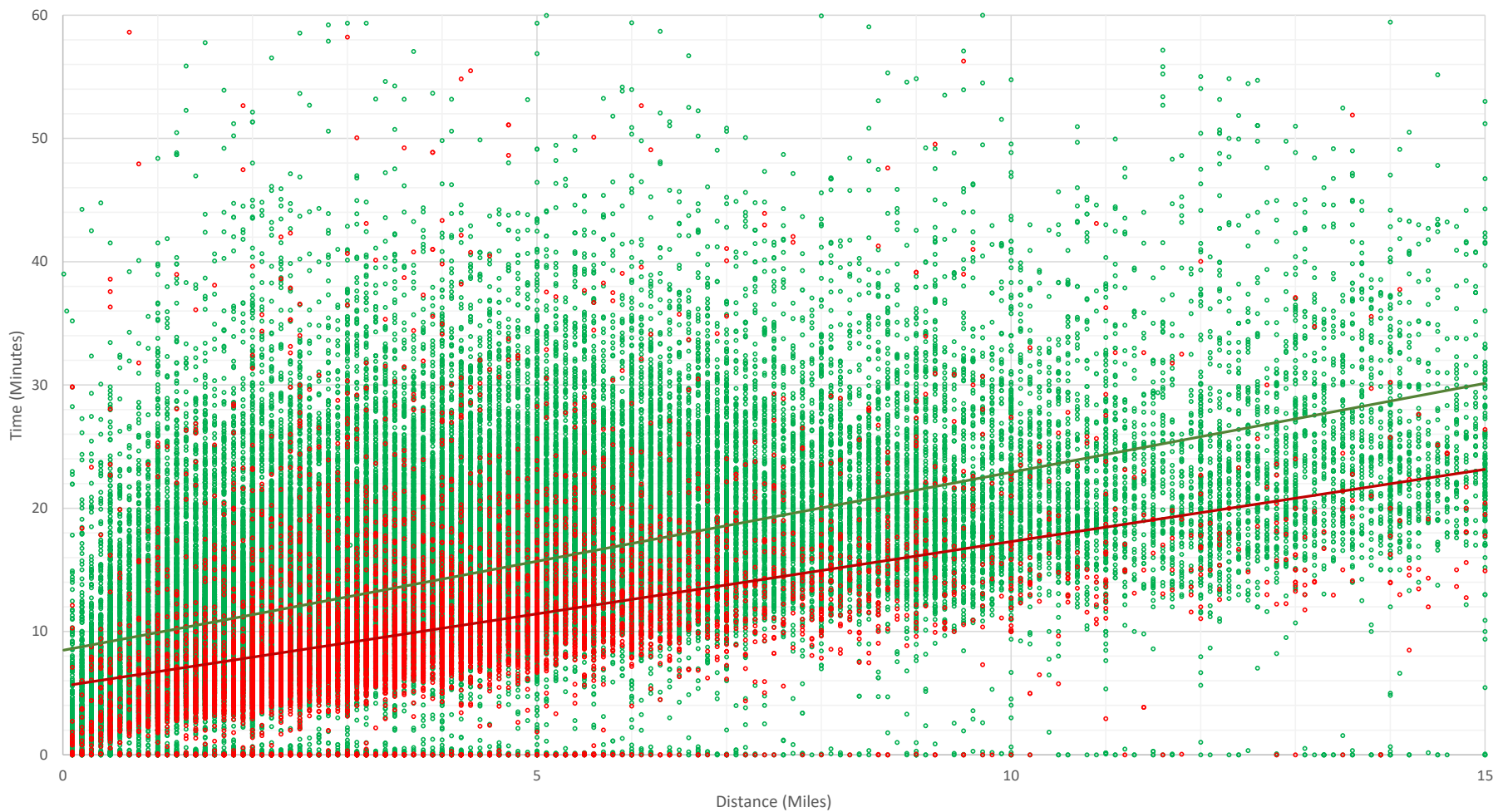
Foothills and Mile High RETAC Region
 Patients Transported Lights and Sirens 2015
 n=12948



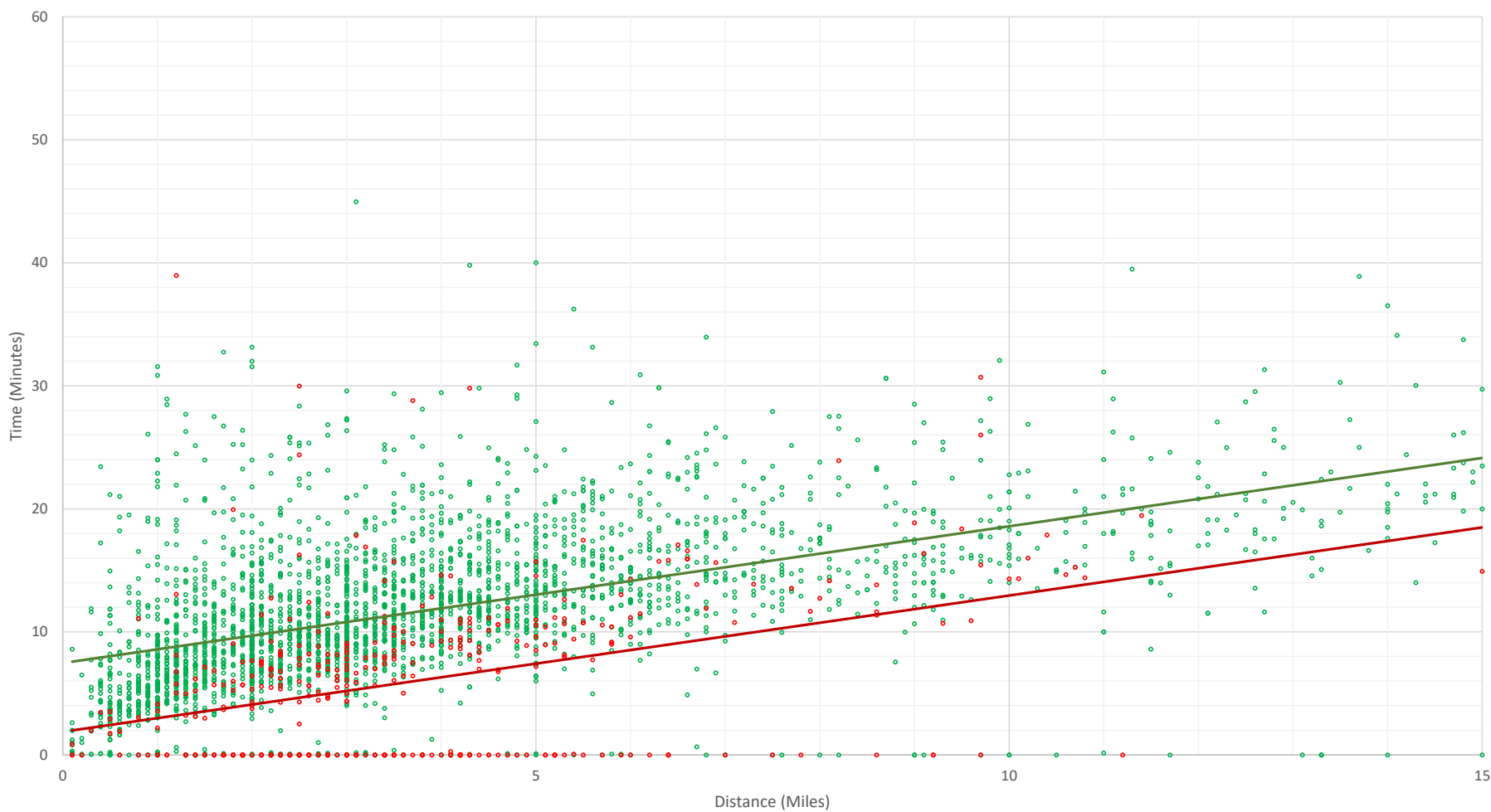
Foothills and Mile High RETAC Region
 Patients Transported No Lights or Sirens 2015
 n=163829



Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 93374 (Non-Emergent 85577, 92%)(Emergent 7797, 8%)



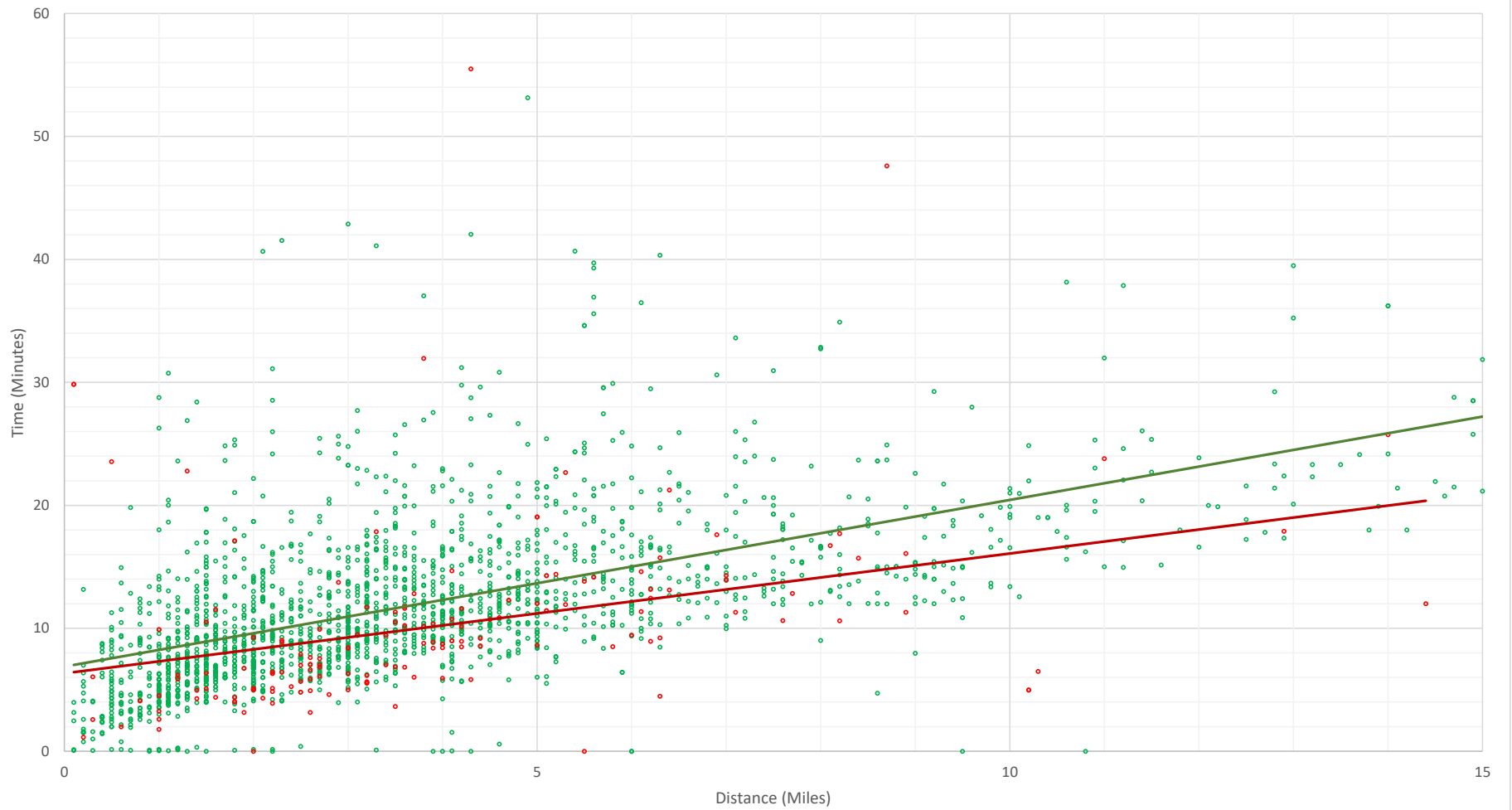
0:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 3494 (Non-Emergent 3102, 89%)(Emergent 392, 11%)



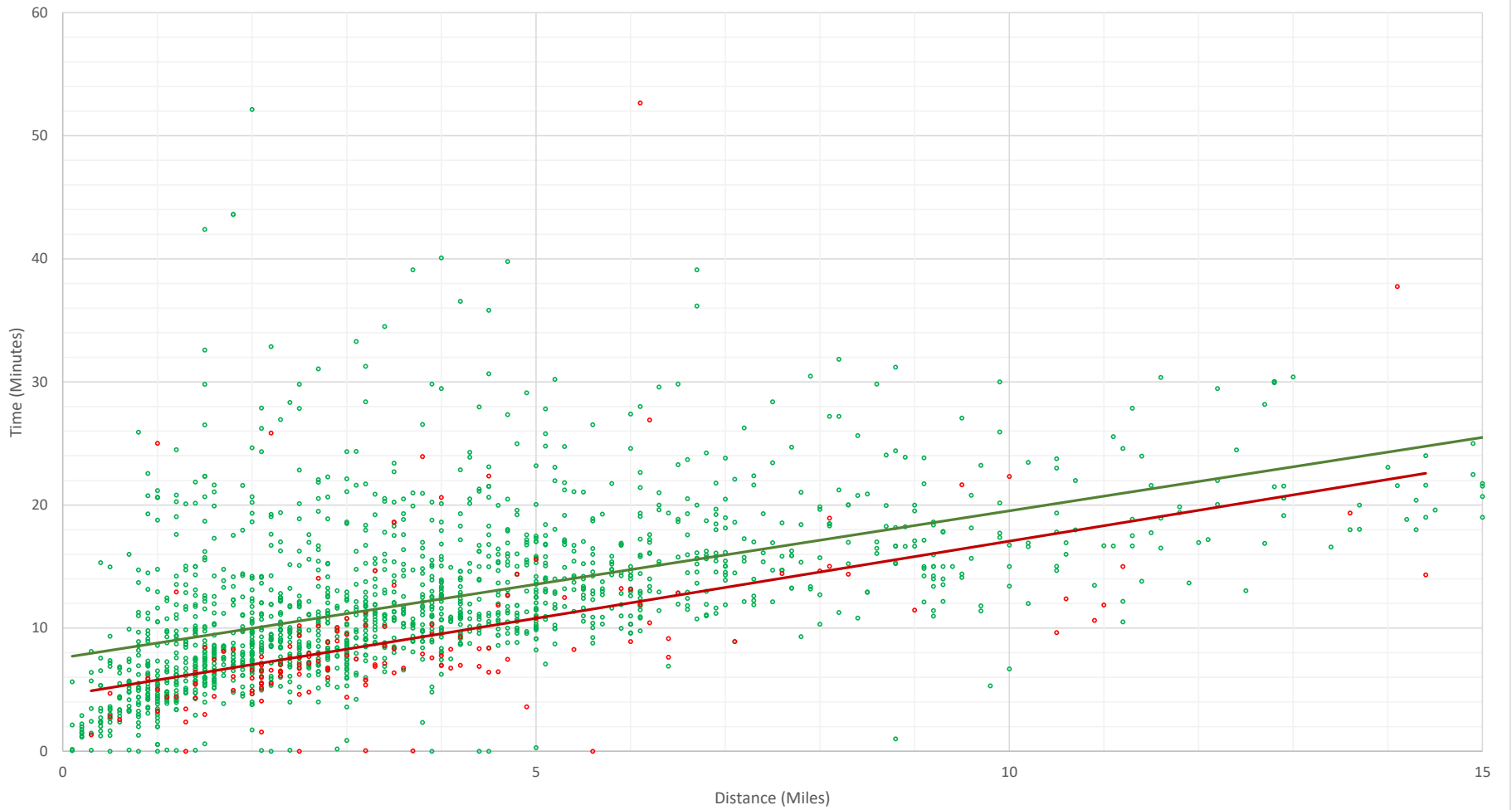
1:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 2903 (Non-Emergent 2670, 92%)(Emergent 233, 8%)



3:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 2160 (Non-Emergent 2009, 93%)(Emergent 151, 7%)



4:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 1785 (Non-Emergent 1634, 92%)(Emergent 151, 8%)



5:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 1614 (Non-Emergent 1459, 90%)(Emergent 155, 10%)



6:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 1982 (Non-Emergent 1773, 89%)(Emergent 209, 11%)



7:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 2568 (Non-Emergent 2286, 89%)(Emergent 282, 11%)



8:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 3297 (Non-Emergent 2961, 90%)(Emergent 336, 10%)



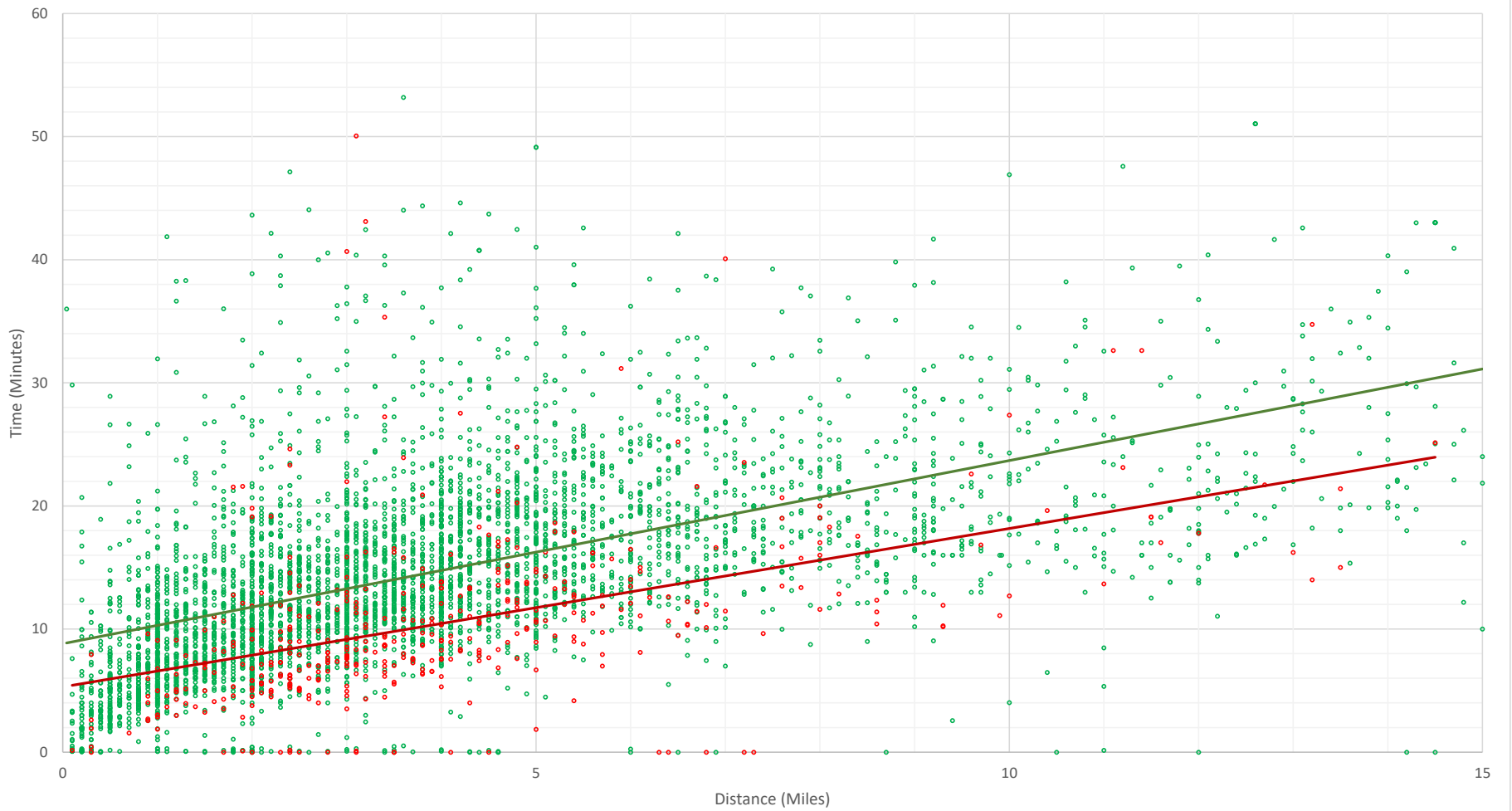
9:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 3991 (Non-Emergent 3603, 90%)(Emergent 388, 10%)



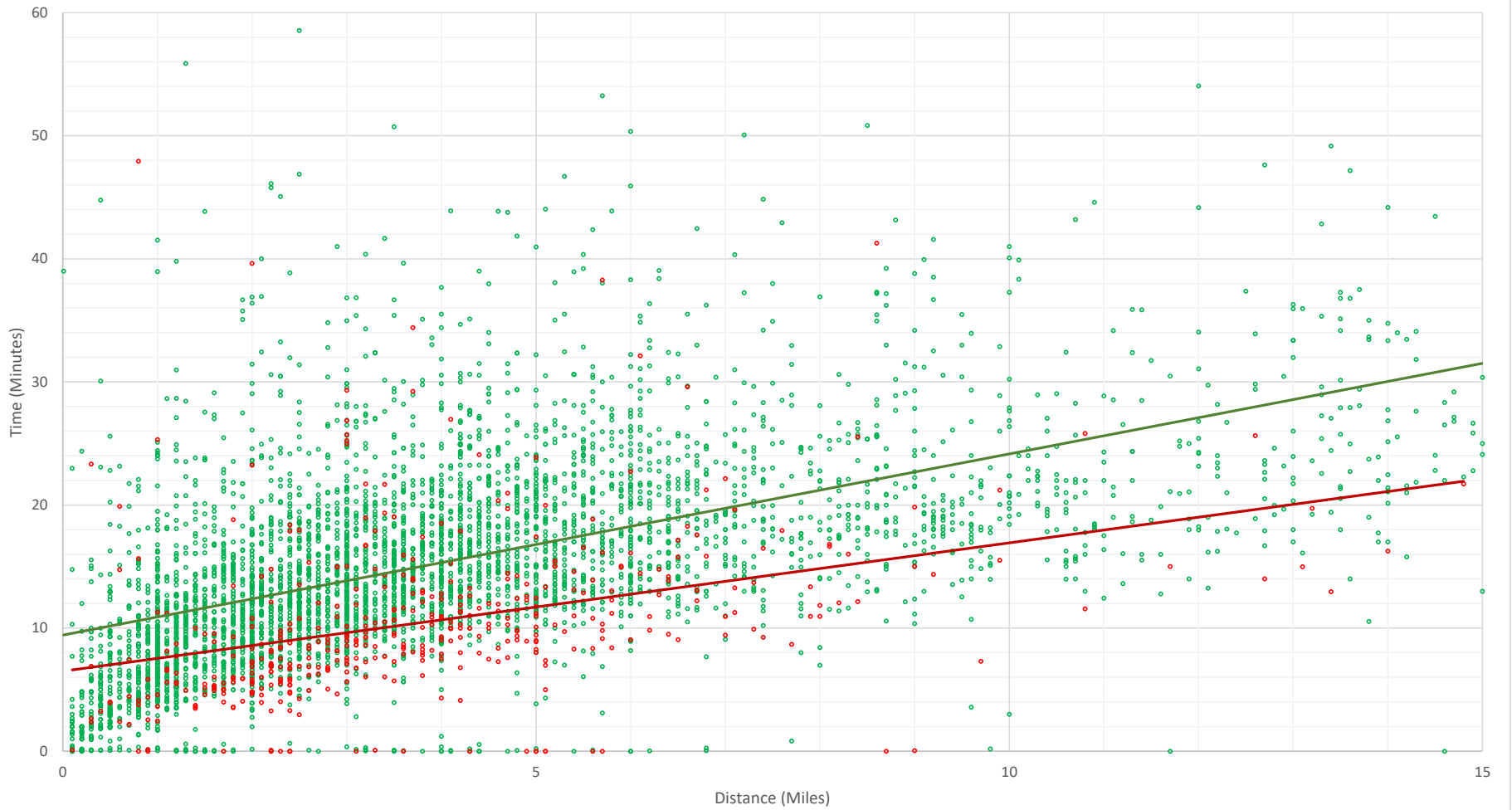
10:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4602 (Non-Emergent 4216, 92%)(Emergent 386, 8%)



11:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5043 (Non-Emergent 4615, 92%)(Emergent 428, 8%)



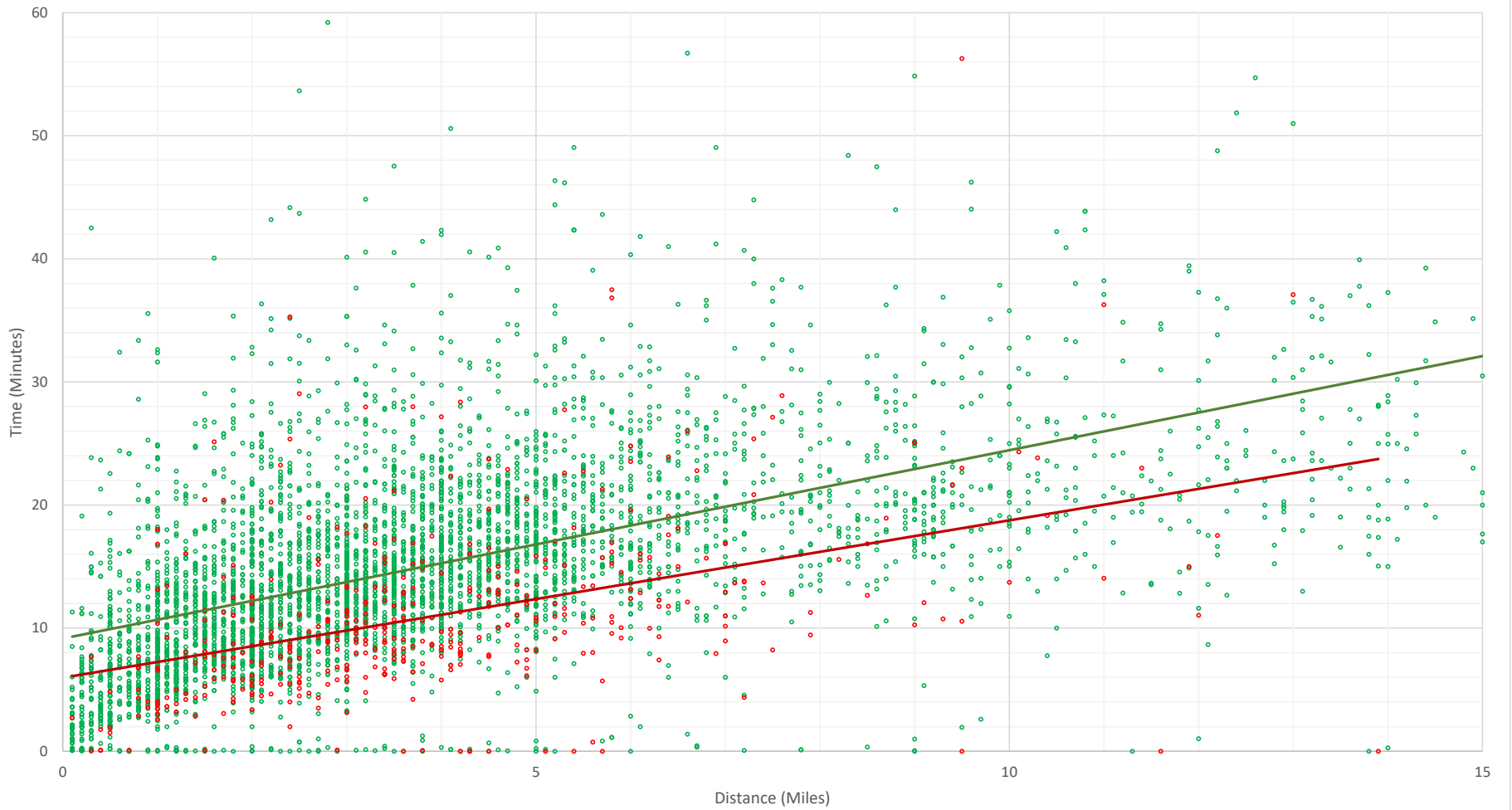
12:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5121 (Non-Emergent 4637, 91%)(Emergent 448, 9%)



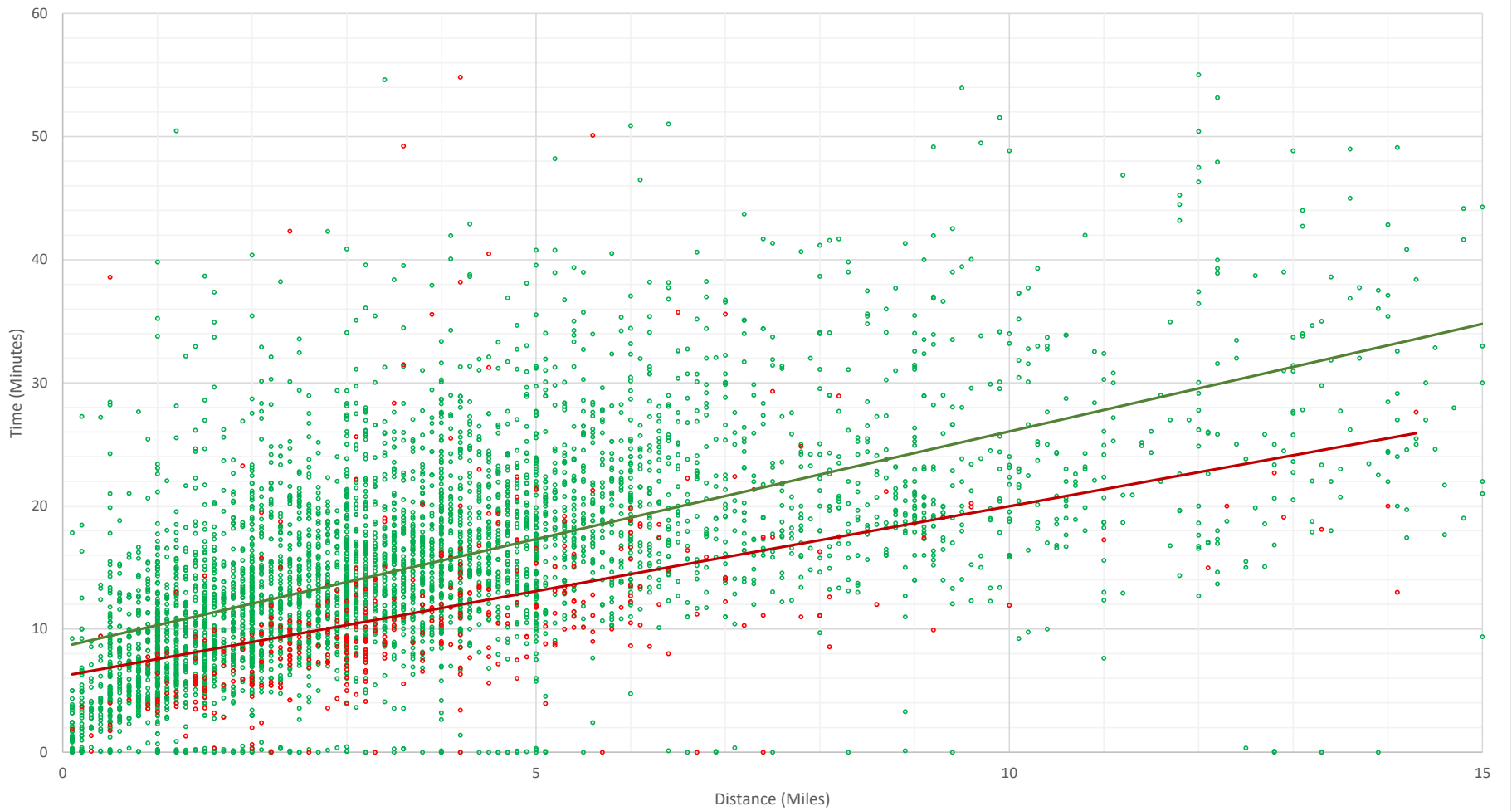
13:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5131 (Non-Emergent 4765, 93%)(Emergent 366, 7%)



14:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5149 (Non-Emergent 4718, 92%)(Emergent 431, 8%)



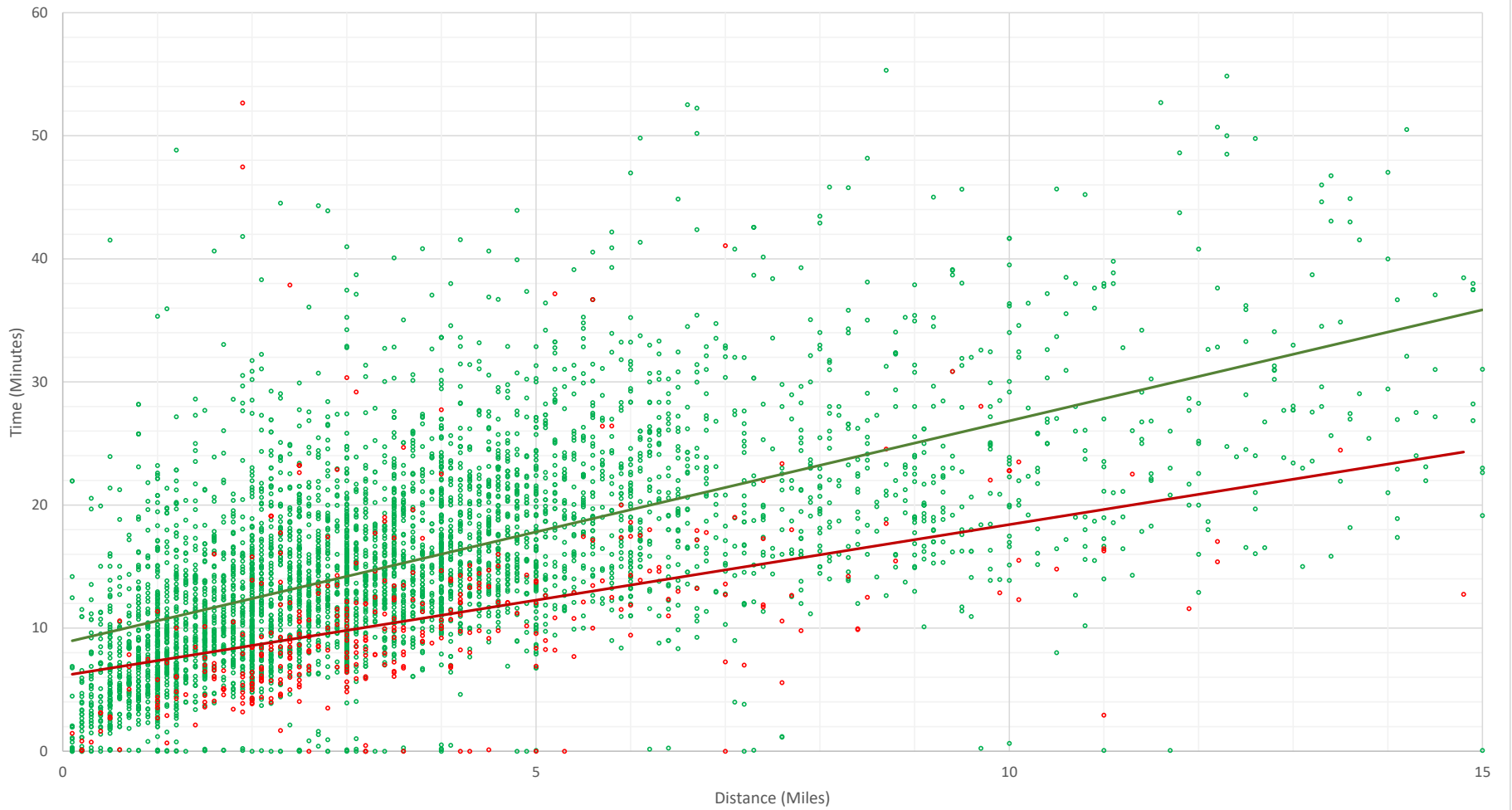
15:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5206 (Non-Emergent 4810, 92%)(Emergent 396, 8%)



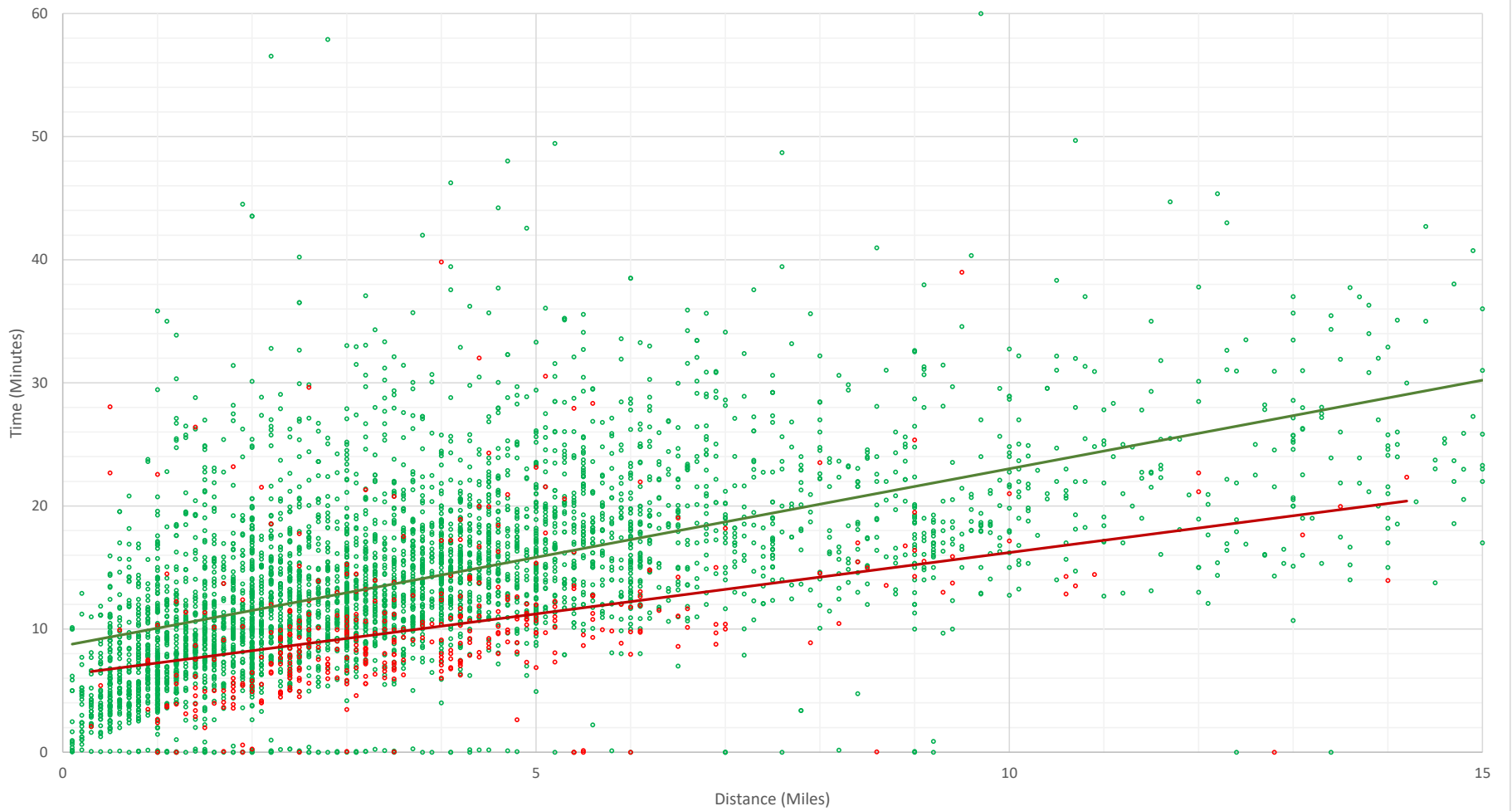
16:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5183 (Non-Emergent 4741, 91%)(Emergent 442, 9%)



17:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 5026 (Non-Emergent 4636, 92%)(Emergent 490, 8%)



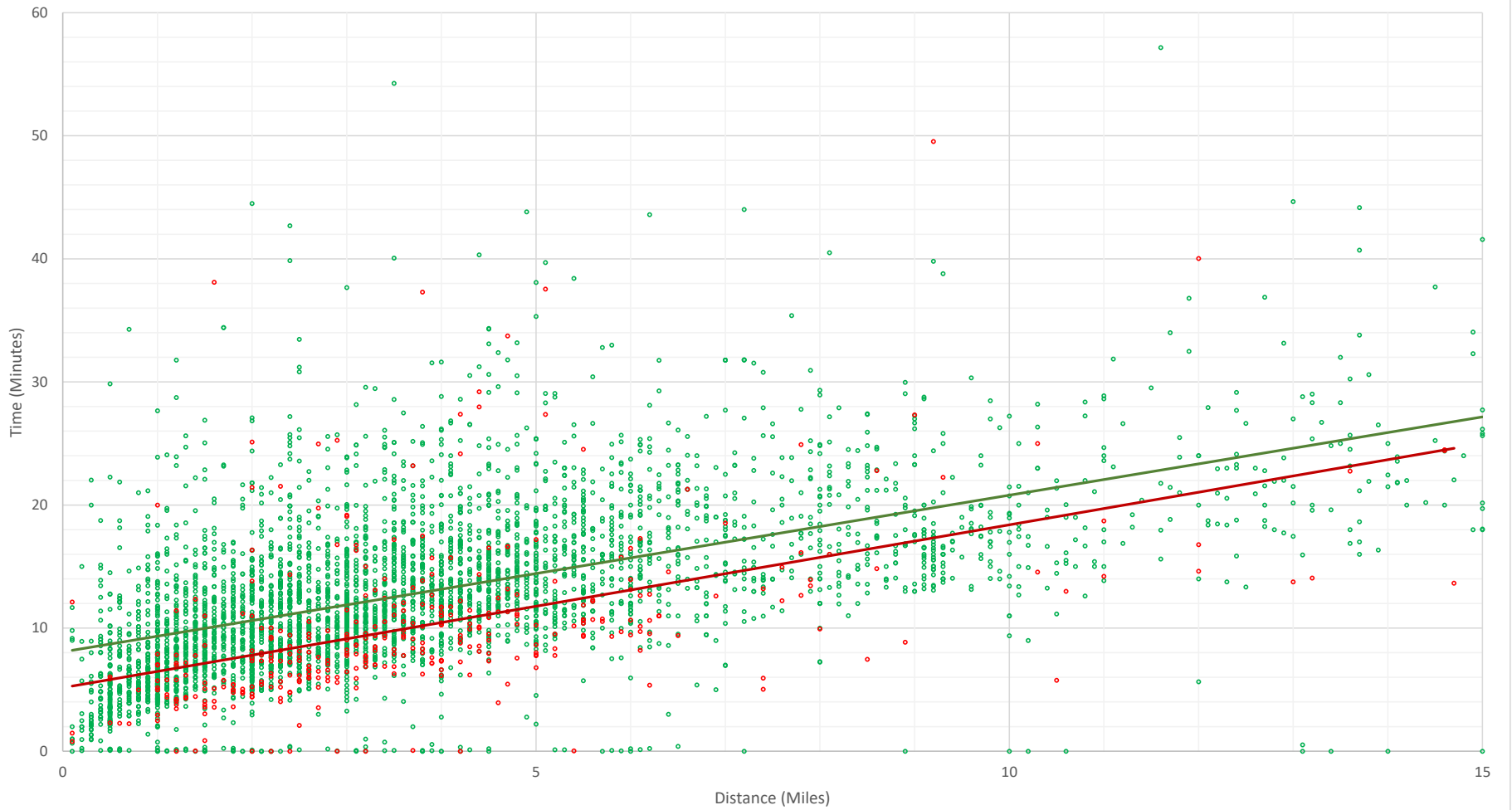
18:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4896 (Non-Emergent 4636, 92%)(Emergent 490, 8%)



19:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4829 (Non-Emergent 4467, 93%)(Emergent 362, 7%)



20:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4571 (Non-Emergent 4201, 92%)(Emergent 370, 8%)



21:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4367 (Non-Emergent 4053, 93%)(Emergent 314, 7%)



22:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 4104 (Non-Emergent 3815, 93%)(Emergent 289, 7%)



23:00 Hour Non-Emergent vs. Emergent Transport (≤ 15 miles)
n= 3605 (Non-Emergent 3366, 93%)(Emergent 239, 7%)

