

# Does a Full Moon Increase Crime Rates?



# C. P. Thakur, [Dilip Sharma](#) - Full Moon And Crime

Gaya Sadar, Kirtya Nand Nagar, Sonari (state of Bihar India)

1978 - 1982



# Data collected every day for 5 years

3 police departments

Suburb, rural, city

183 full moon days - 256 crimes

5295 non full moon days - 2878 crimes

Hypothesis - physiological and psychological changes in body

Study conducted in early 80's in a country that often utilized questionable tactics to control and measure crime.

Joseph A. Schafera, Sean P. Varanob, John P. Jarvisc, Jeffrey M.  
Cancinod

*Bad moon on the rise? Lunar cycles and incidents of crime*

The authors cite previous studies showing that a great deal of medical professionals and police officers believe that the full moon does indeed affect behavior and that crime is more likely to happen during a full moon

The lunar cycle influences certain opportunities for crime  
Moon, perhaps through its gravitational pull, affects human behavior itself and compels people to act in ways that they otherwise would not



# San Antonio 2001 to 2005



# Findings

Weather patterns

Police records

Rising temperature and

No correlation



Chanchal Bhattacharjee, Peter Bradley, Matt Smith, Andrew J. Scally, Bradley  
J. Wilson:

*Do Animals Bite More During A Full Moon?*





## West Yorkshire England from 1997 to 1999

1621 patients were treated for animal bites at the infirmary  
Two days before the full moon bites accelerated and the  
day of the full moon they peaked  
After the three days of accelerated bites, there was a  
significant decrease in bites.

Teresa Biermann, Rita Asemann, Carmel McAuliffe, Armin Ströbel, Jochen Keller, Wolfgang Sperling, Stefan Bleich, Johannes Kornhuber, Udo Reulbach

- *Relationship between lunar phases and serious crimes of battery: a population-based study*



# Bavaria Germany from 1999 to 2006



# Findings

No correlation found

Studies continue to conflict

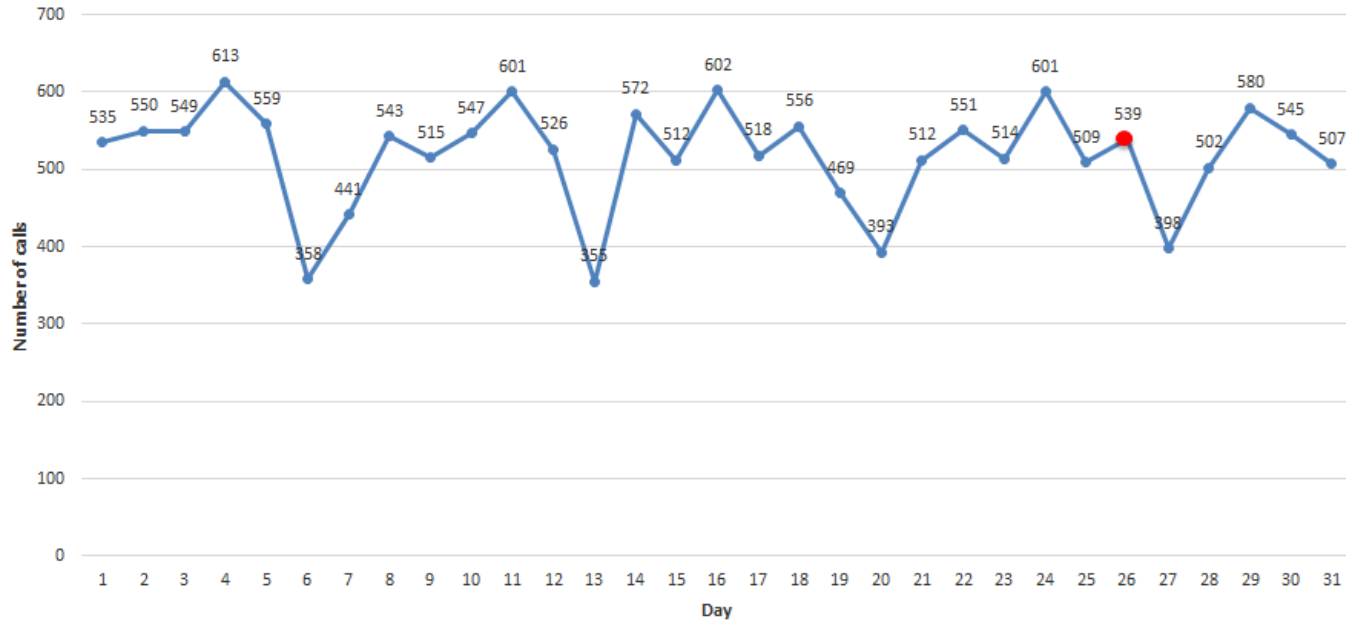
# Methodology

- **Data Collection**
  - Collecting Existing Data v. Survey
  - Pros and Cons
- **Failures**
  - Reluctance of Agencies
  - Manpower
  - Data compilation
- **Success**
  - Utah Valley 911 Dispatch
  - Area and Agencies
  - Collection of Data to Analysis



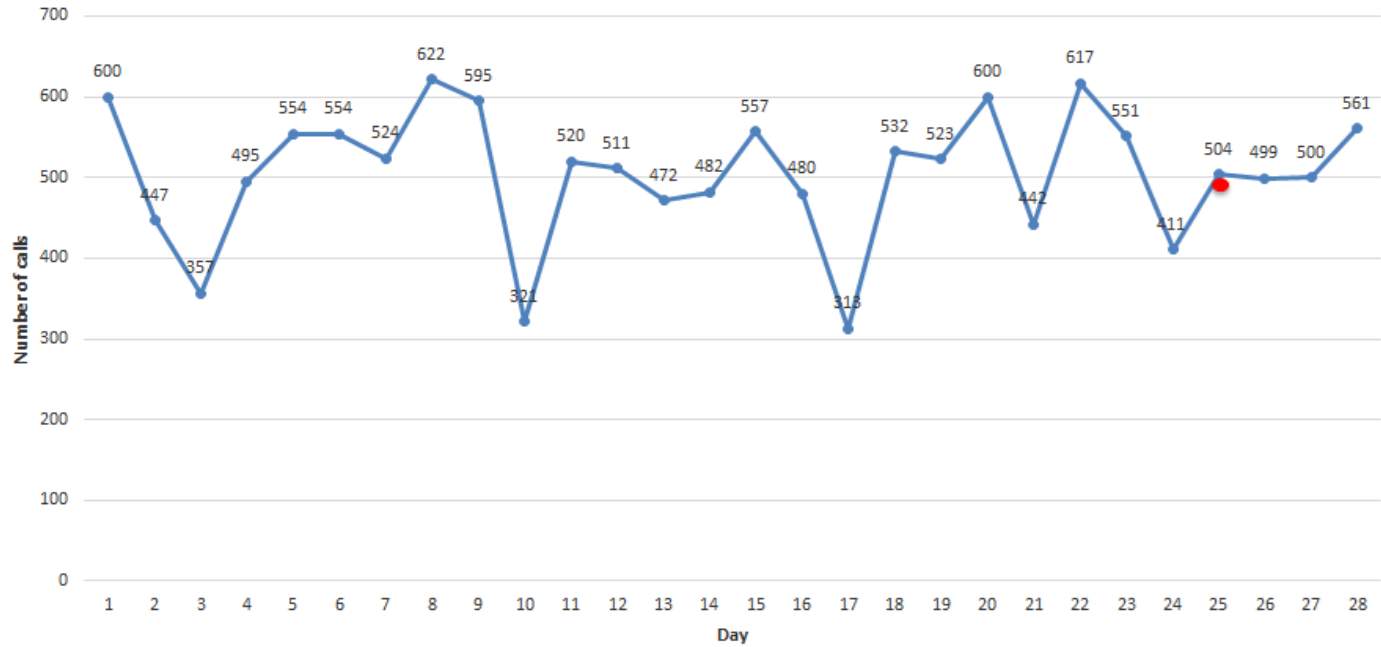
# January

Line Graph for Number of Calls  
January 2013



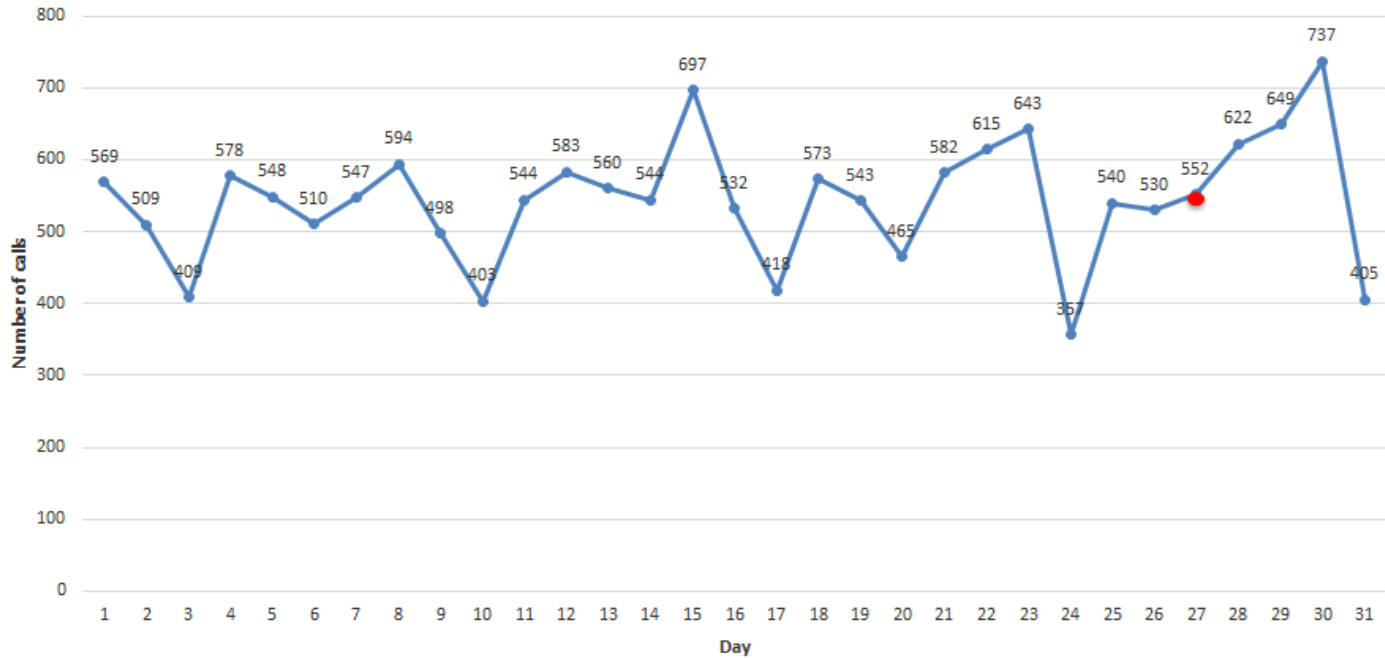
# February

Line Graph for Number of Calls  
February 2013



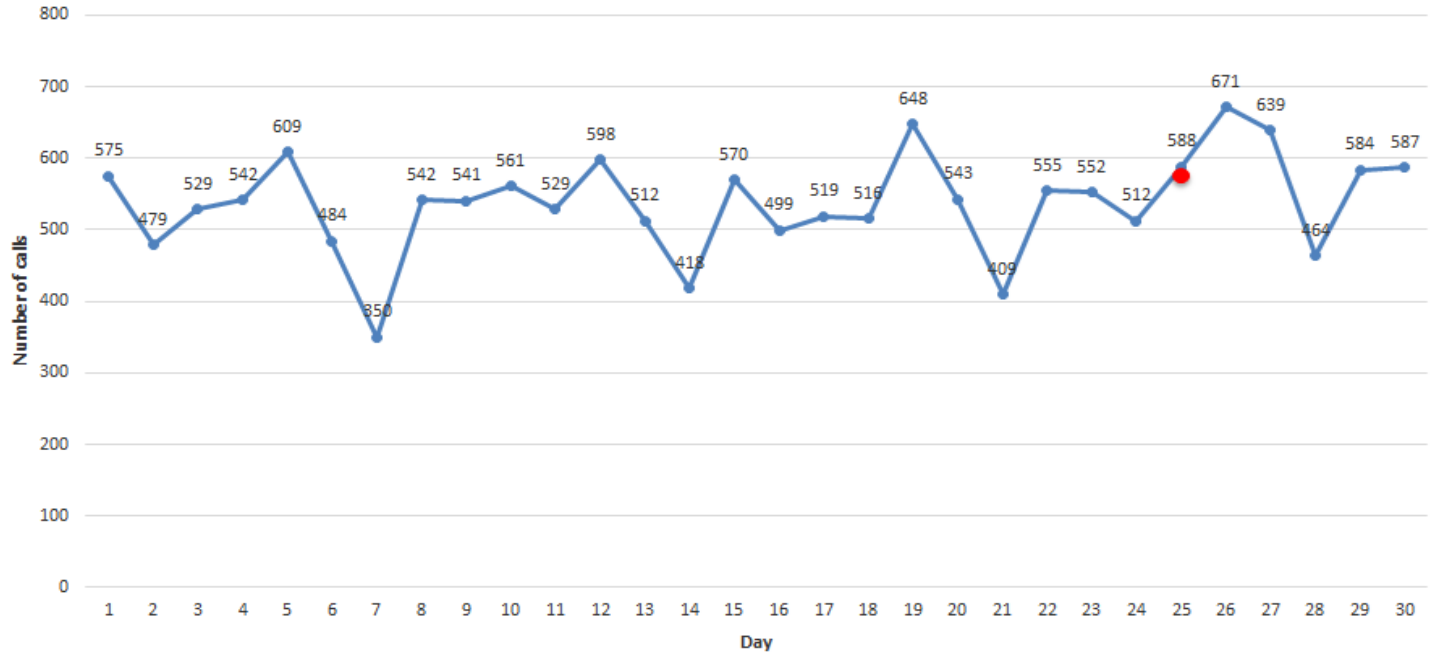
# March

Line Graph for Number of Calls  
March 2013



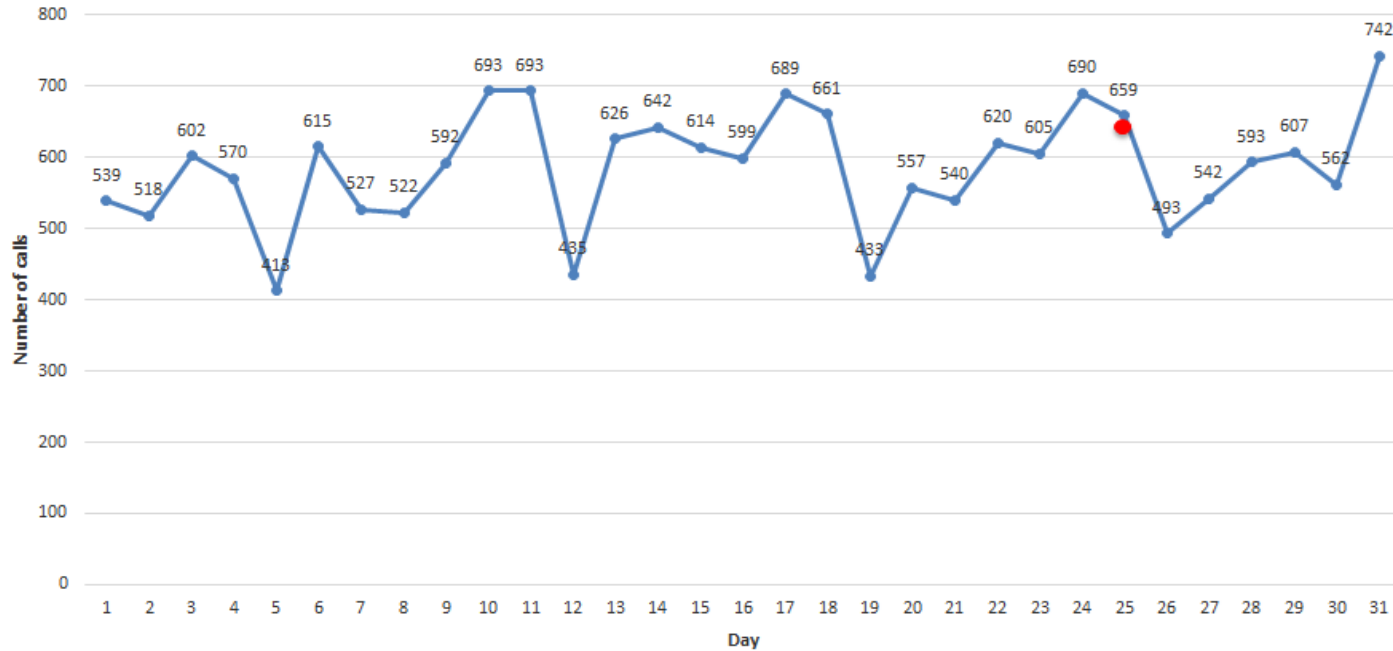
# April

Line Graph For Number of Calls  
April 2013



# May

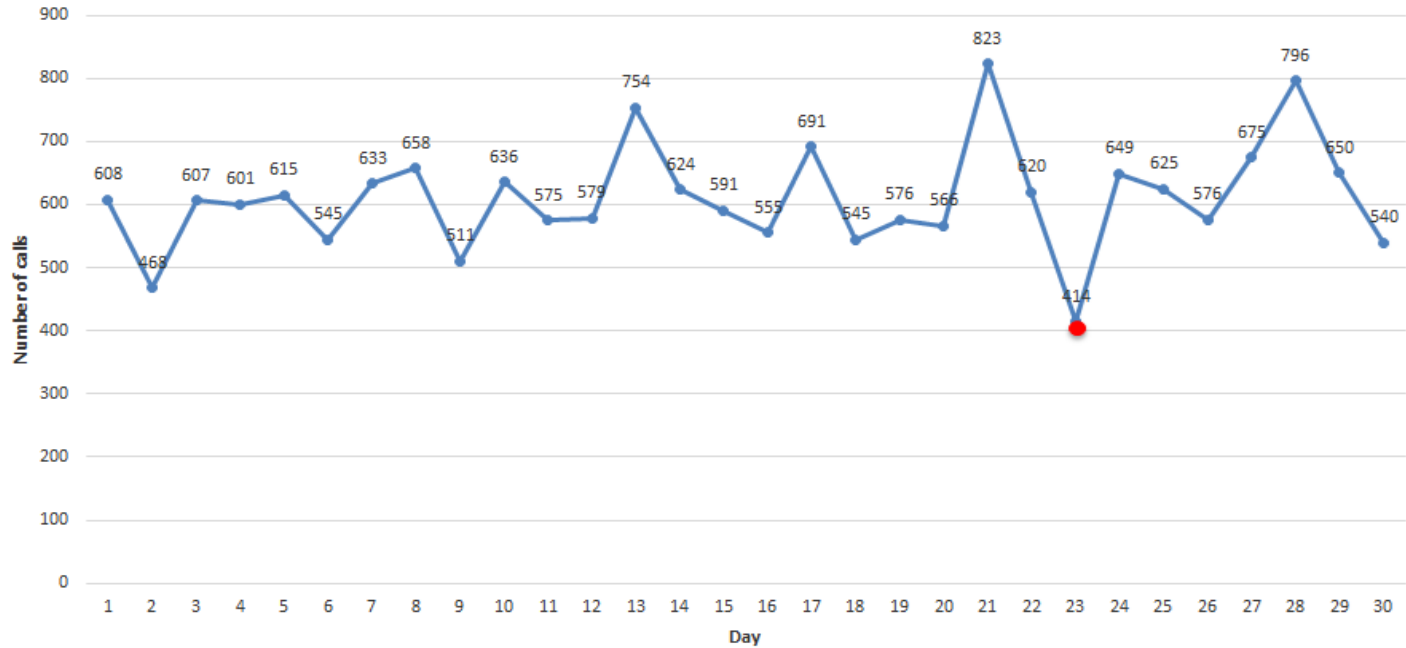
Line Graph for Number of Calls  
May 2013





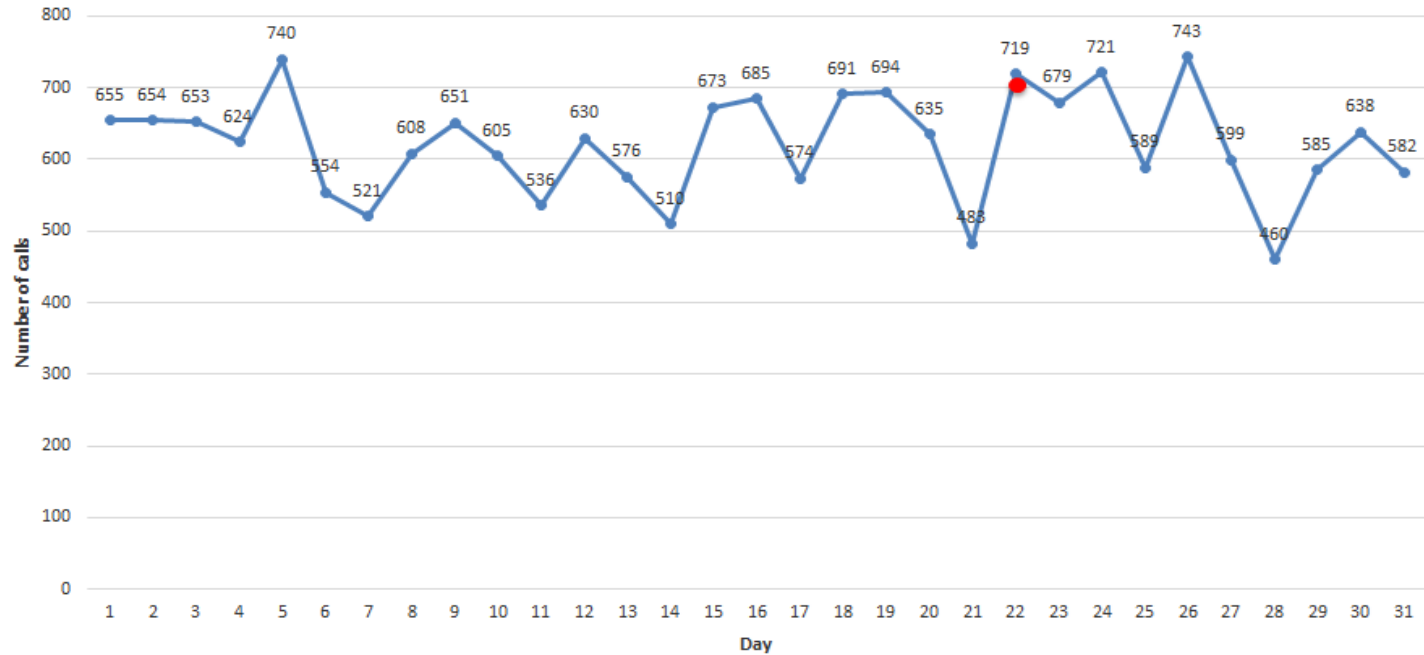
# June

Line Graph for Number of Calls  
June 2013



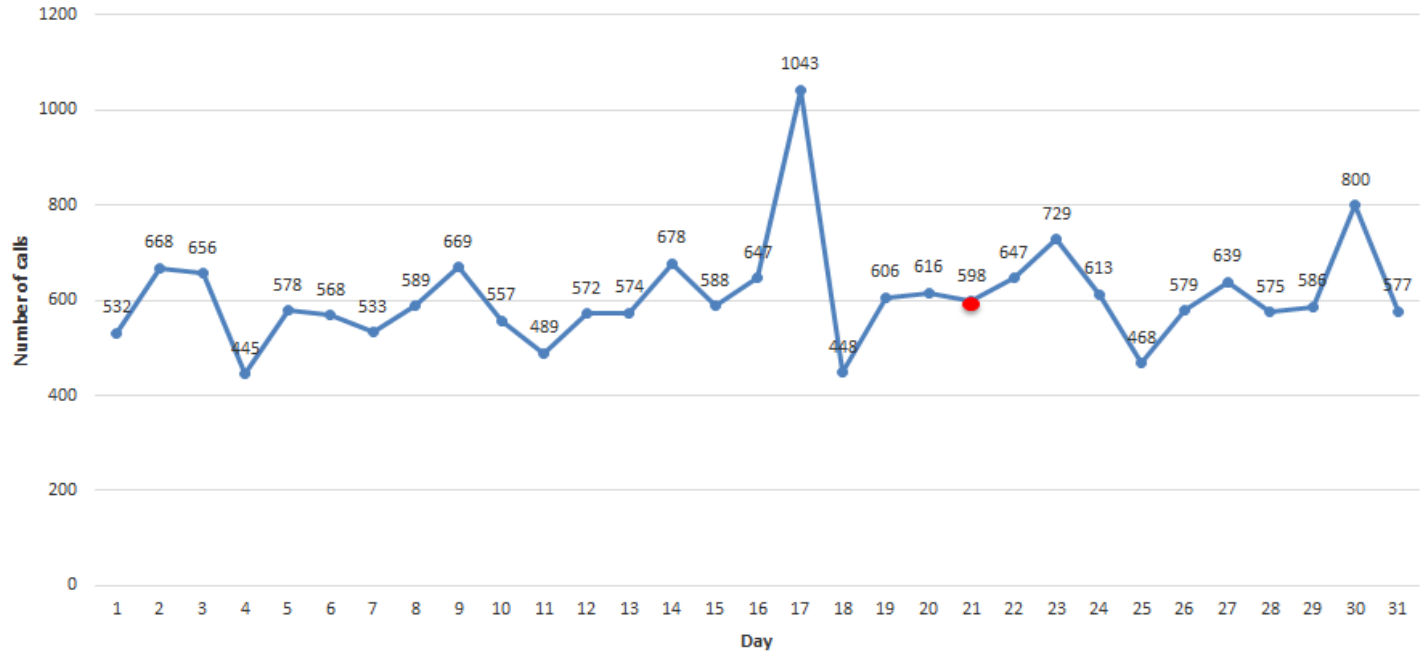
# July

Line Graph for Number of Calls  
July 2013



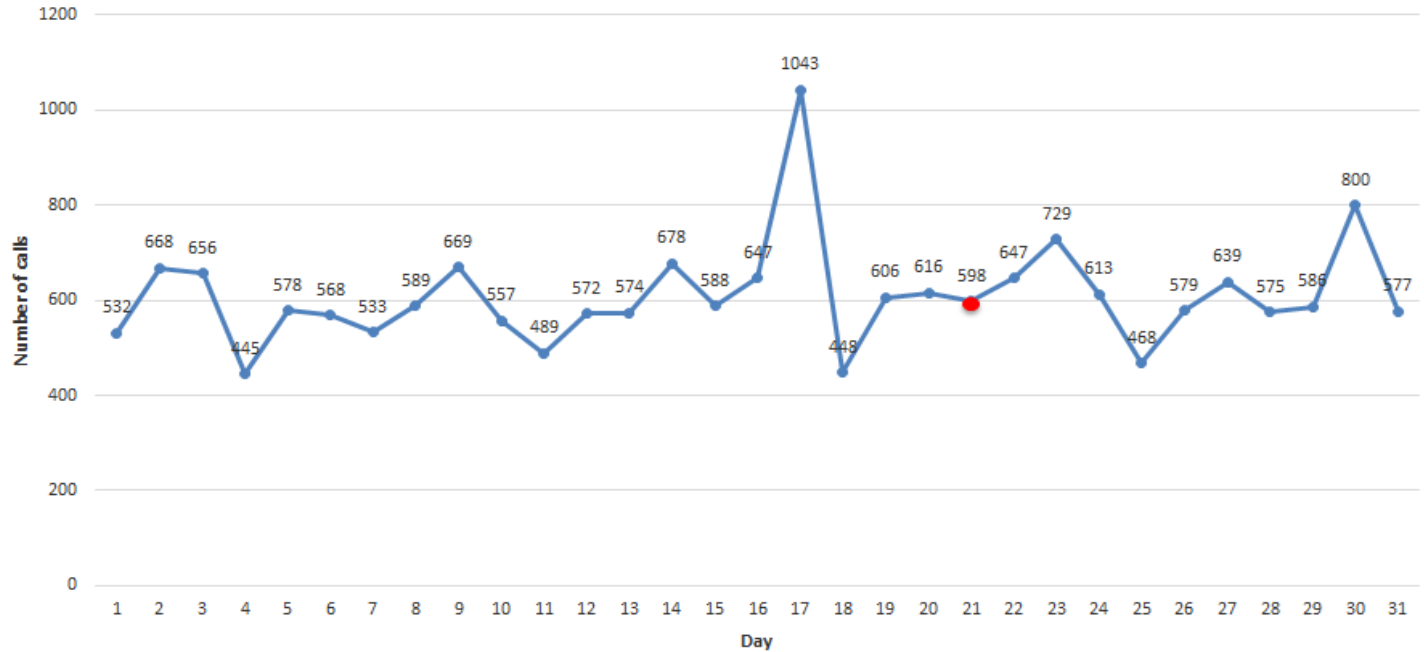
# August

Line Graph for Number of Calls  
August 2013



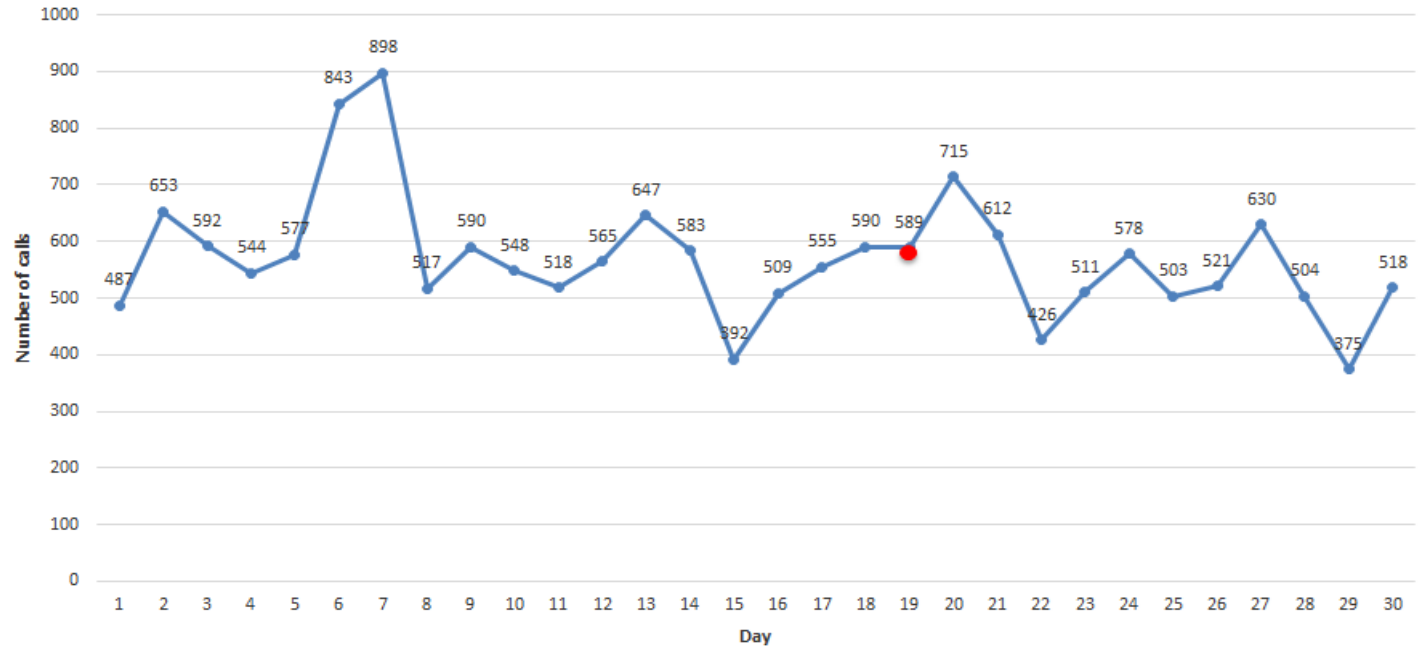
# August

Line Graph for Number of Calls  
August 2013



# September

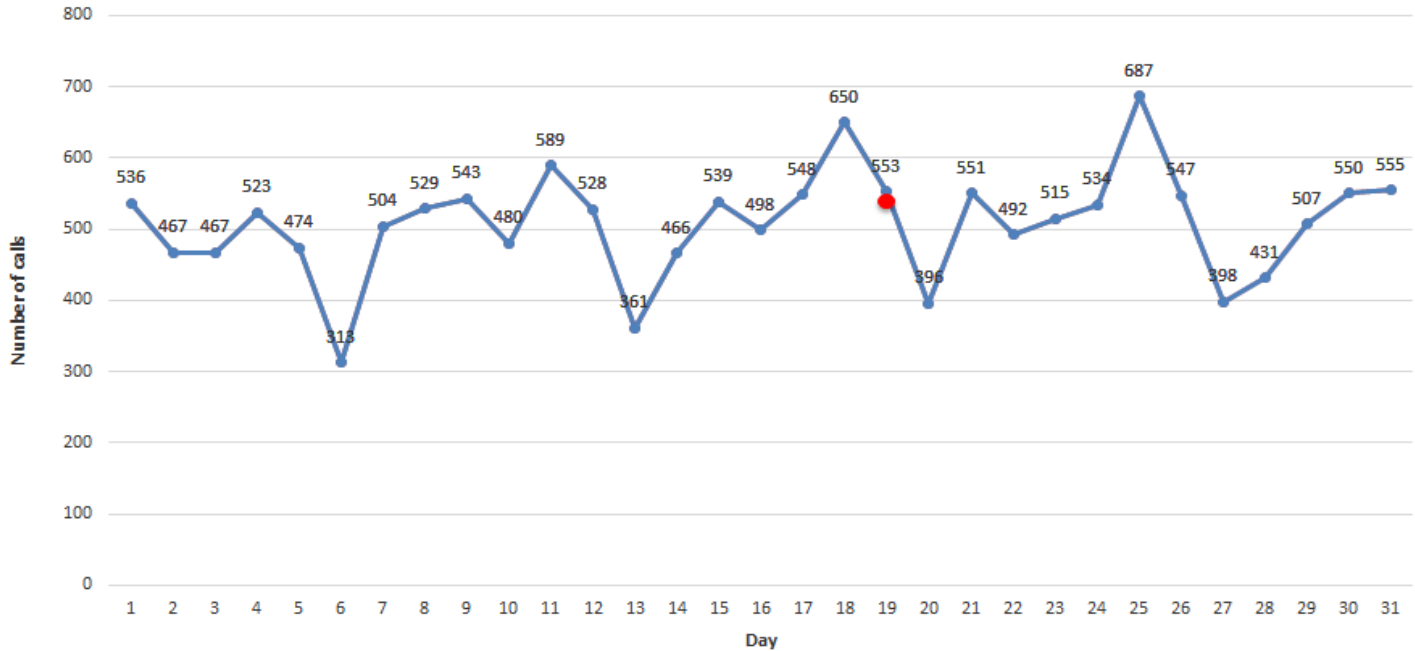
Line Graph for Number of Calls  
September 2013





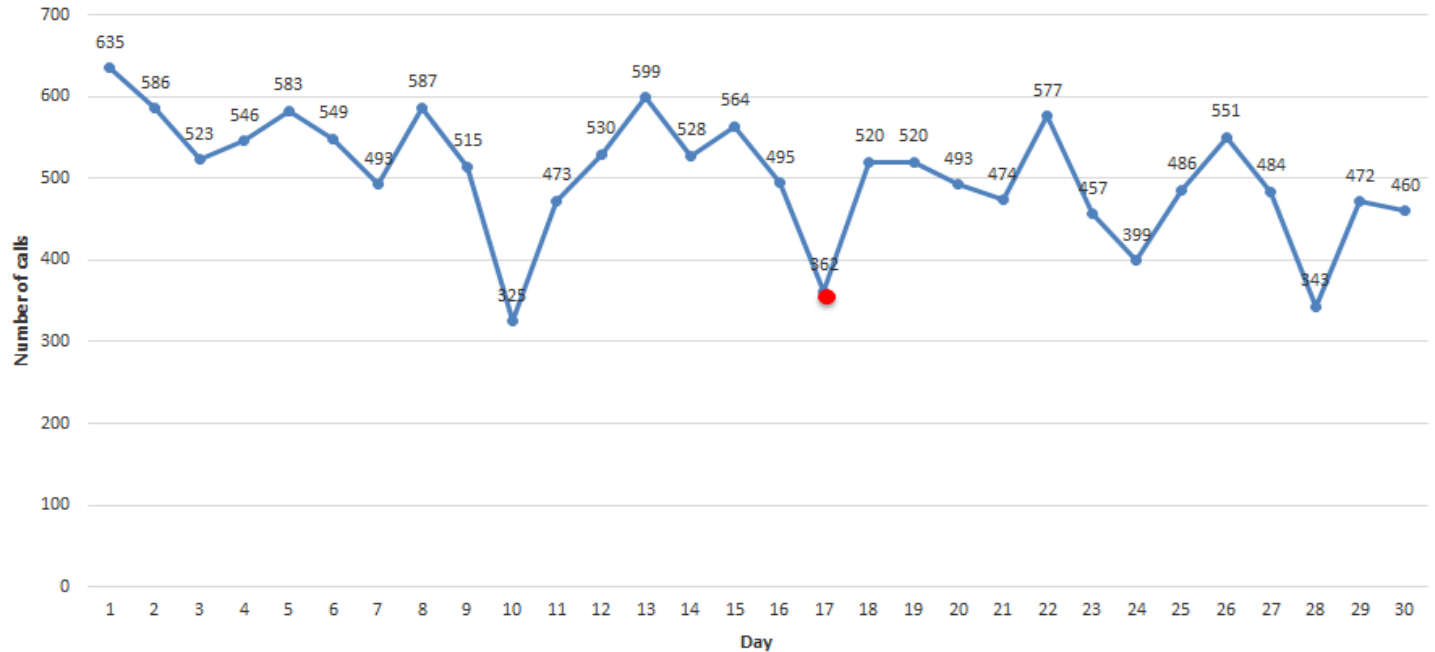
# October

Line Graph for Number of Calls  
October 2013



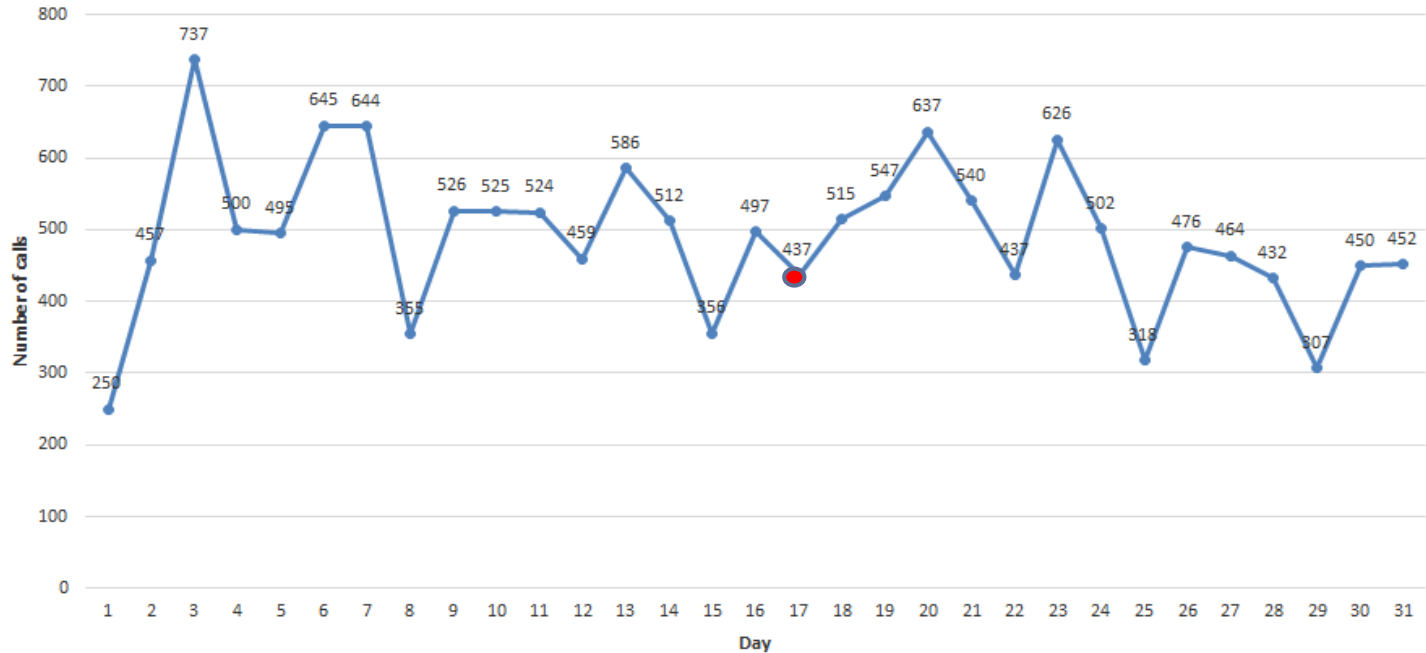
# November

Line Graph for Number of Calls  
November 2013



# December

Line Graph for Number of Calls  
December 2013



# Results Breakdown

	A	B	C	D	E	F
1	Month	Number Of Calls On The Full Moon	Average # Of Calls	Highest # Of Calls	Lowest Number Of Calls	Full Moon Calls-Average Calls
2	Jan	539	518.45	613	355	20.55
3	Feb	504	505.14	622	313	-1.14
4	Mar	552	543.74	737	357	8.26
5	Apr	588	537.50	671	350	50.50
6	May	659	586.87	742	413	72.13
7	Jun	414	610.20	823	414	-196.20
8	Jul	719	621.52	743	460	97.48
9	Aug	598	608.61	1043	445	-10.61
10	Sep	589	569.67	898	375	19.33
11	Oct	553	507.45	687	313	45.55
12	Nov	362	504.30	635	325	-142.30
13	Dec	437	490.58	737	250	-53.58
14						

# Interesting Dates

6/23: Sunday

8/17: Can possibly be associated to the Utah County Fair

11/17: Also Sunday, somewhat colder day



# What we Found

According to our results, we found no correlation between the lunar cycle and the crime rates of the Utah Valley Dispatch jurisdiction