Does a Full Moon Increase Crime Rates?
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.
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
Line Graph for Number of Calls
June 2013

June
August

Line Graph for Number of Calls
August 2013
August

Line Graph for Number of Calls
August 2013
Line Graph for Number of Calls
September 2013
October

Line Graph for Number of Calls
October 2013
December

Line Graph for Number of Calls
December 2013
## Results Breakdown

<table>
<thead>
<tr>
<th>Month</th>
<th>Number Of Calls On The Full Moon</th>
<th>Average # Of Calls</th>
<th>Highest # Of Calls</th>
<th>Lowest Number Of Calls</th>
<th>Full Moon Calls-Average Calls</th>
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<tbody>
<tr>
<td>Jan</td>
<td>539</td>
<td>518.45</td>
<td>613</td>
<td>355</td>
<td>20.55</td>
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<tr>
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<td>504</td>
<td>505.14</td>
<td>622</td>
<td>313</td>
<td>-1.14</td>
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<tr>
<td>Mar</td>
<td>552</td>
<td>543.74</td>
<td>737</td>
<td>357</td>
<td>8.26</td>
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<td>Apr</td>
<td>588</td>
<td>537.50</td>
<td>671</td>
<td>350</td>
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<td>659</td>
<td>586.87</td>
<td>742</td>
<td>413</td>
<td>72.13</td>
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<td>Jun</td>
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<td>610.20</td>
<td>823</td>
<td>414</td>
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<td>667</td>
<td>313</td>
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<td>635</td>
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<tr>
<td>Dec</td>
<td>437</td>
<td>490.58</td>
<td>737</td>
<td>250</td>
<td>-53.58</td>
</tr>
</tbody>
</table>
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.