

## Estimated Impacts from Mahogany Ridge PUD

**If Mahogany Ridge has 1,381 units, it will add the following to our community:**

- 4,005 new residents
- 400,490 gallons of waste water per day
- 13,119 vehicle trips per day
- 4,143 pets
- 677 school children
- 18,022 pounds of trash per day

**Our community will require the following to accommodate these increases:**

- 716,877 gallons of water per day.
- 57,350 kW hours of electricity per day
- 10 police officers
- 11 hospital beds
- 81,299 square feet of retail space

### Impact Calculator Sources

Estimated Population: calculated by multiplying the **number of units** by **2.9 people**, which is the county average for people per dwelling unit. From the U.S. Census Bureau, 2000. <http://quickfacts.census.gov/qfd/states/16/16081.html> High confidence.

Water use: calculated by multiplying the **estimated population** by **179 gallons/day** which is the average water consumption per capita in the U.S. From the United States Geological Survey website. <http://pubs.usgs.gov/circ/2004/circ1268/> Medium confidence.

Power use: calculated by multiplying the **estimated population** by **14 kW hours/day** which is the average power consumption per capita in Idaho. From the United States Department of Energy website. [http://www.eere.energy.gov/states/state\\_specific\\_statistics.cfm/state=ID](http://www.eere.energy.gov/states/state_specific_statistics.cfm/state=ID) High confidence.

Wastewater: calculated by multiplying **estimated population** by **100 gallons/day** which is the national average of wastewater per capita. From the U.S. Department of Agriculture. <http://extension.missouri.edu/explore/commdm/dm1905.htm> High Confidence.

Hospital Beds needed: calculated by multiplying the **estimated population** by **.0028 beds/person**, which is the national average of hospital beds per capita. From the Organization for Economic Cooperation and Development. <http://www.oecd.org/dataoecd/29/52/36960035.pdf>. Medium confidence.

School Students added: calculated by multiplying the number of **housing units** by **.49 students**, which is the county ratio of school children to households in 2003. From the Teton County Cost of Services Study conducted by Collins Planning Associates in 2004. High Confidence.

- Vehicle trips added: calculated by multiplying the number of **housing units** by **9.5 trips/day**, which is the national average. From the Teton County Cost of Services Study conducted by Collins Planning Associates in 2004. High Confidence.
- Police officers needed: calculated by multiplying the **estimated population** by **.00243 officers**, which represents the national average of police officers per thousand people. From the U.S. Department of Justice.  
<http://www.ojp.usdoj.gov/bjs/sandlle.htm#personnel> High-Medium confidence.
- Trash generated: calculated by multiplying the **estimated population** by **4.5 lbs/day**, which is the national average of solid waste generated daily per person. From the U.S. Environmental Protection Agency. <http://www.epa.gov/msw/facts.htm>. High confidence.
- Retail Space demand: calculated by multiplying the **estimated population** by **20.3 sqft/person**, which is the national average for retail space per capita. From a study conducted by Cushman and Wakefield.  
[http://retailtrafficmag.com/mag/retail\\_touching\\_down/index.html](http://retailtrafficmag.com/mag/retail_touching_down/index.html). Medium-Low confidence.
- Dogs and Cats added: calculated by multiplying the number of **housing units** by **3 dogs and cats**, which is the Teton County, ID average. From a census conducted by the Teton County, ID Humane Society in 2002. Medium confidence.