General Reference: [www.gracelinks.org](http://www.gracelinks.org)

Specific Reference for Indoor Water Use:

<https://www.watercalculator.org/water-use/indoor-water-use-at-home/>

Average US Household **Indoor Water Use** (water from tap, toilet, dishwasher etc.): **138 Gallons per Day** OR 60 Gallons per person per day.

Lawns use about 80 Gallons per day per household.

A daily breakdown of water use in the US:

|  |  |  |
| --- | --- | --- |
| **Appliance/Device** | **Household per Day** | **Percent of Total** |
| Toilet | 33 gallons | 24% |
| Shower | 28 gallons | 20% |
| Faucet | 26 gallons | 19% |
| Washing Machine | 23 gallons | 17% |
| Leaks | 17 gallons | 12% |
| Bath | 4 gallons | 3% |
| Dishwasher | 2 gallons | 1% |
| Other | 5 gallons | 4% |
| Total | 138 gallons | 100% |

Based on survey from Water Calculator from above website:

Our home direct water usage (indoor + Outdoor + car wash ): 152 Gallons per Day.

Including all water usages of home (indoor, outdoor, Virtual): 6,854 Gallons per day

**Potential of Drippi:**

Household Usage:

1. Indoor Water Use: 138 Gallons per Day \* 365 days per year = 50,370 Gallons per year per household.
2. Average Water Savings (assumption): 20% per household 🡪 water saved: ~10,000 Gallons per year per household.
3. Number of households: 200 for the first year with some outreach programs. With more outreach activities, say 1000 Households. This results in a water savings of: 10K Gallons per year per houshold \* 200 = 2Million Gallons per year. For 1000 households it is 10K \* 1000 = 10Million Gallons per year.
4. Cost of water us about $9 per 1000 Gallons of water (water supply + sewage treatment costs). Therefore cost savings range from 2 M\* ($9/1000) = $18K per year to $90K per year.

***Summary****: We estimate that Drippi App, depending on amount of outreach marketing activities, would be used by about 200 households to 1000 households. This will result in an estimated 2 Million Gallons to 10 Million Gallons of indoor water savings per year. This translates to about $18K to $90K in potential money savings during the first year.*

Outdoor water use (considering just the lawns):

1. Lawns use 80 Gallons per day per household. This is about 80\*365 = 29,200 gallonsper year per household.
2. Savings through Drippi App: 20% (assumption). This translates to 5840 gallons per year per household of water savings ( = 29,200 \* 20%)
3. Total Outdoor water savings for 200 to 1000 households are: 1.2M Gallons per year to 5.8M Gallons per year. This is about $11K to $52K outdoor water use savings per year.

***Overall Summary: We estimate that Drippi App will be used by 200 to 1000 households in US during the first year of launch. Assuming 20% of water is saved by the users, this will result in the indoor and outdoor water savings of about 3.2 M to 15.8 M gallons per year. This saves about $29K to $142K in the first year.***

The savings during the first year alone should offset the app development cost, thus making this an attractive investment for a non-profit organization like Grace Links that is interested in water saving.