

This presentation premiered at WaterSmart Innovations

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Stick a Barnacle On It

A Water Saving Pilot Program

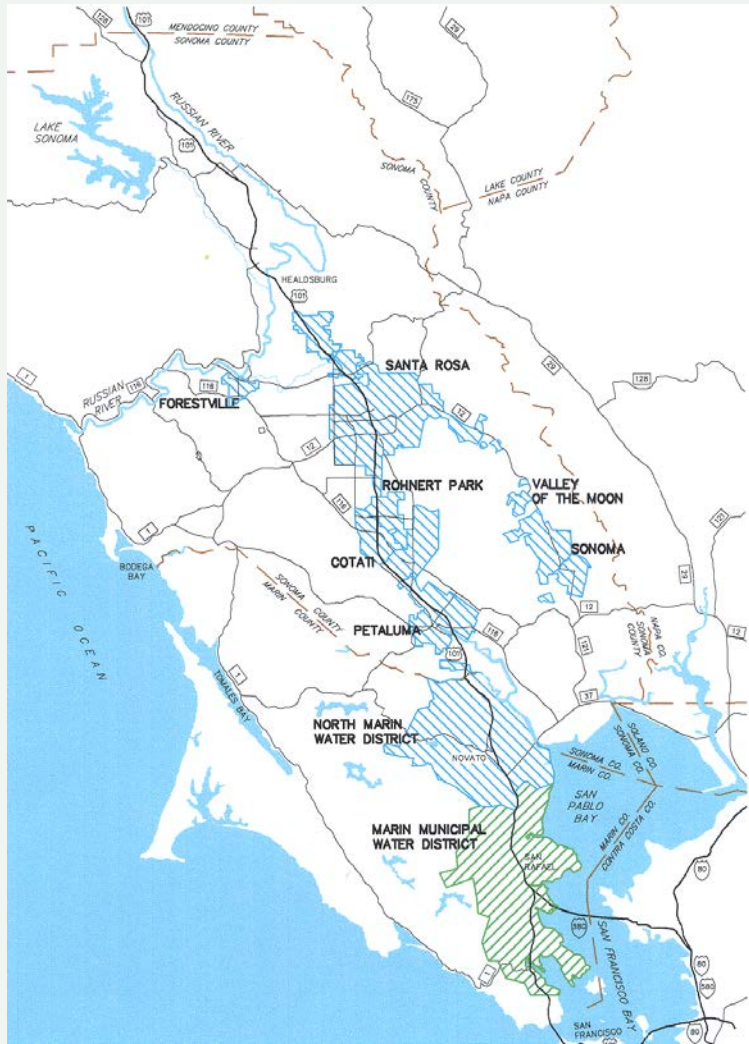
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Senior Water Programs Specialist



Agenda

- Background
- Sonoma County Water Agency Program
- Pilot Study
 - Goals
 - Progress
- Survey Results and Water Savings
- Final Thoughts

Sonoma County Water Agency

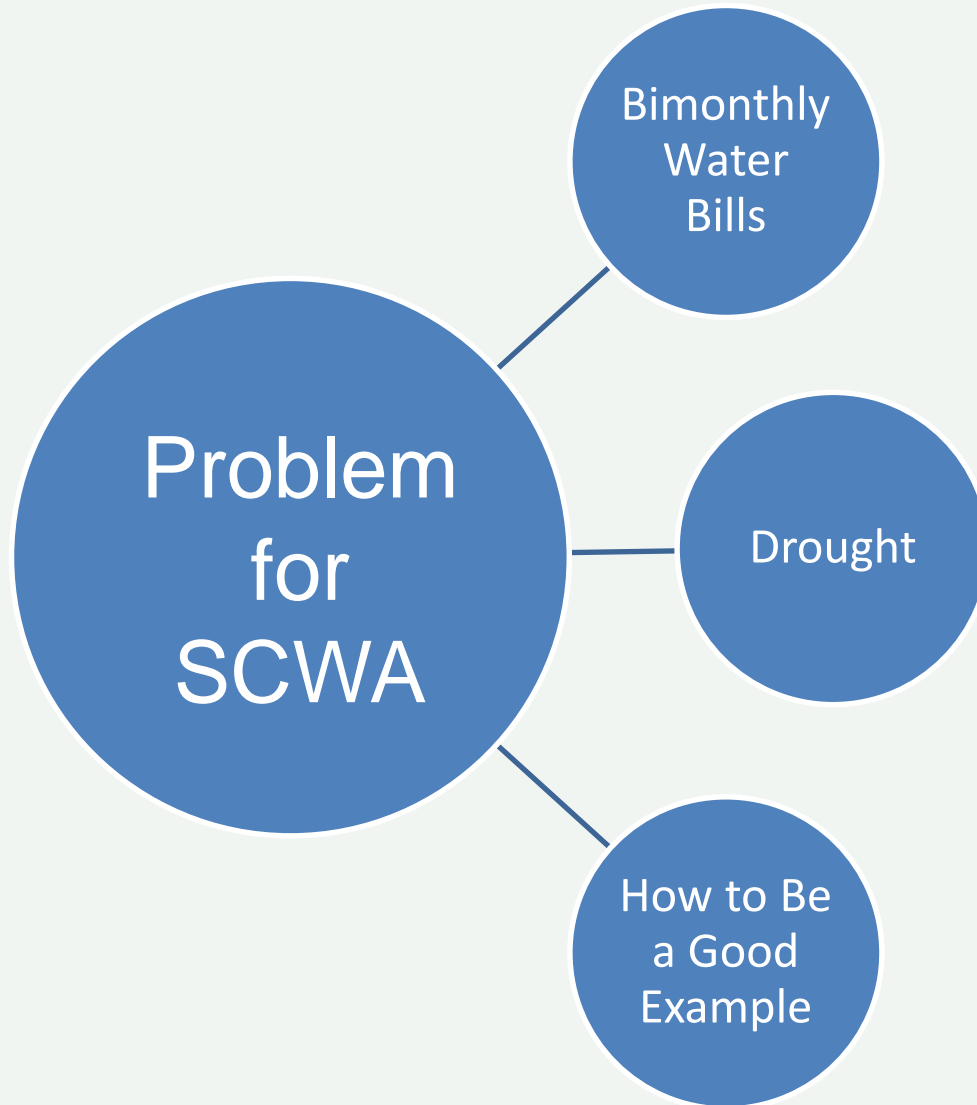


Wholesale water provider to
retailers in Sonoma and Marin
Counties, CA

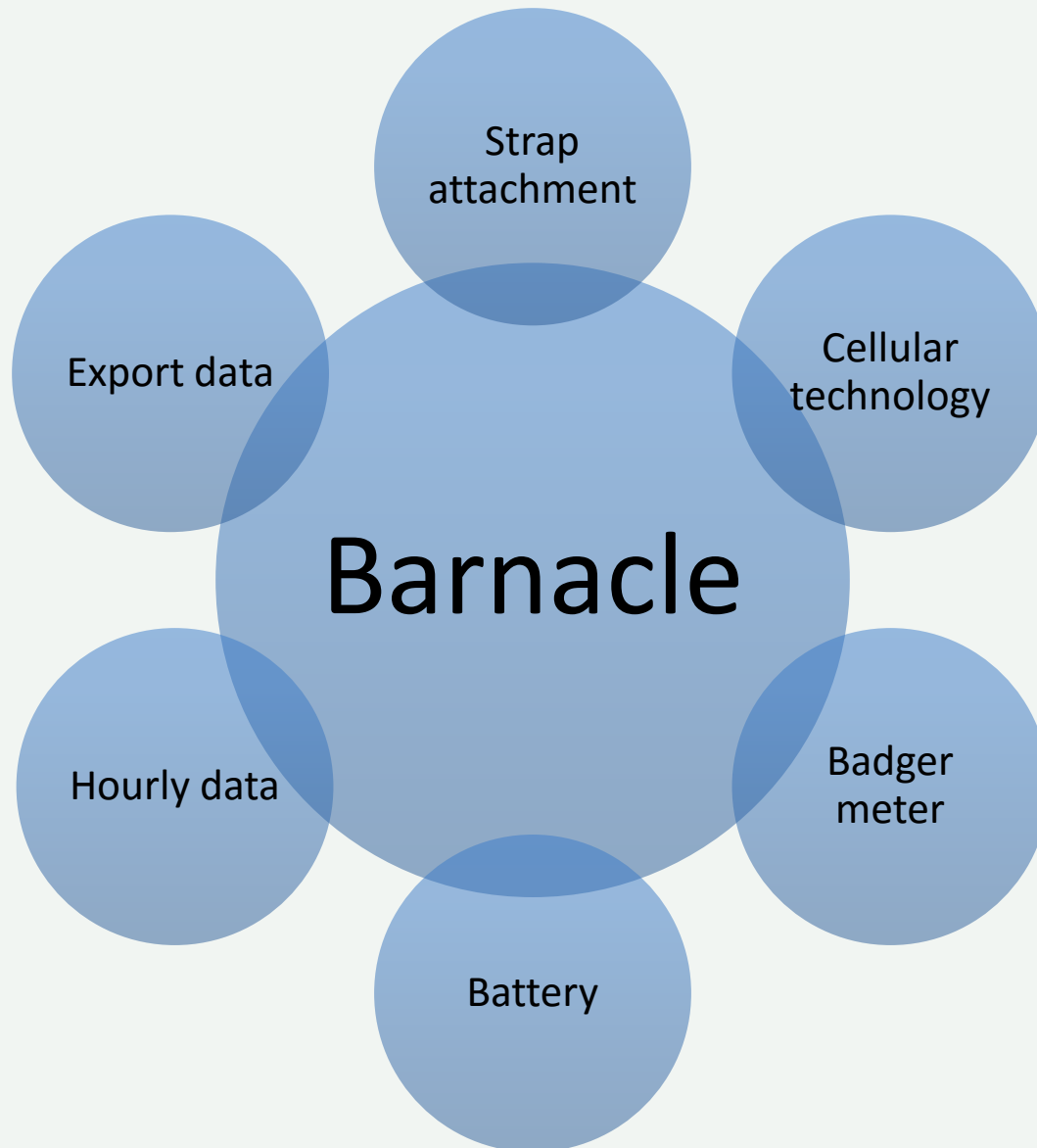
600,000 water customers

Offering water-use efficiency
programs through retailers
since 1998

Background



Barnacle



Barnacle



Pilot Program

- November 2014
- 69 locations in Sonoma County
- Participants:
 - Hospital
 - School district
 - Business park complex
 - Single family residence
 - Municipal owned park




Pre - Launch

- In person training
 - City staff
 - Main contact
- Water History Release Form required
- Participate Form Required



Online Platform

Leaks



No leak detected. Great job!

Edit Leak Alert

At a Glance

977 Last 7 Days gallons

1,179 Previous 7 Days gallons

179 30 Day Average gallons per day

17% decrease



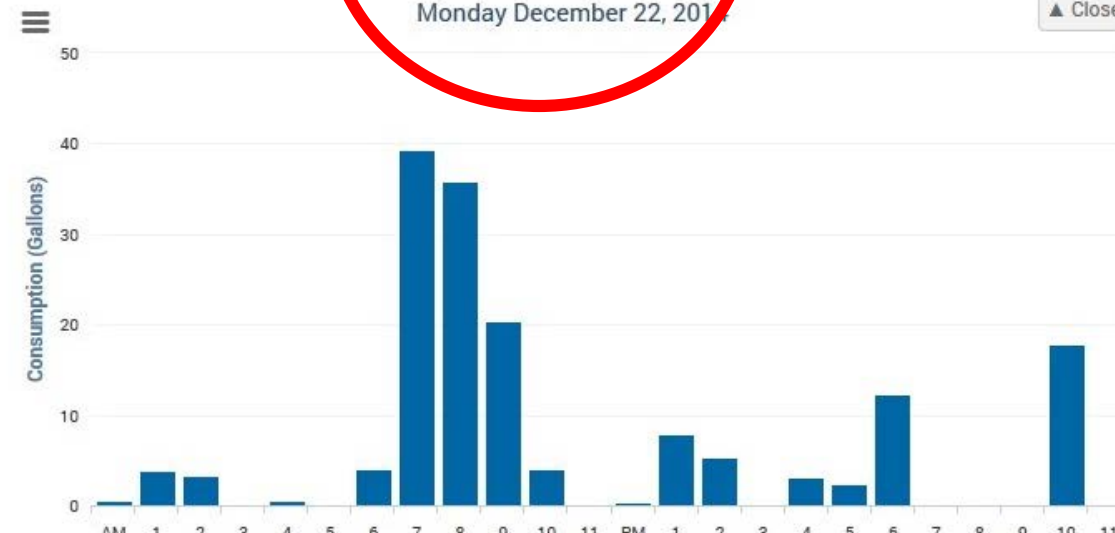
| Day | Gallons |
|--------------|------------|
| T | ~10 |
| W | ~15 |
| Th | ~10 |
| F | ~8 |
| S | 438 |
| Su | ~5 |
| M | ~10 |
| Total | 161 |

Total 161 Gallons

Minute Hour Day Month Year


Gallons Overlays

Monday December 22, 2014



| Hour (PST) | Consumption (Gallons) |
|------------|-----------------------|
| AM 1 | ~1 |
| 1 | ~4 |
| 2 | ~3 |
| 3 | ~0 |
| 4 | ~1 |
| 5 | ~0 |
| 6 | ~4 |
| 7 | ~40 |
| 8 | ~36 |
| 9 | ~20 |
| 10 | ~4 |
| 11 | ~0 |
| PM 1 | ~8 |
| 2 | ~5 |
| 3 | ~0 |
| 4 | ~3 |
| 5 | ~2 |
| 6 | ~12 |
| 7 | ~0 |
| 8 | ~0 |
| 9 | ~0 |
| 10 | ~18 |
| 11 | ~0 |

Your Meter



Your meter measures the quantity of water used in your household. Flow is measured electronically at hourly intervals, and updated every 24 hours for billing and leak detection.

Read Frequency
Hourly

Transmit Frequency
Daily

Next Update

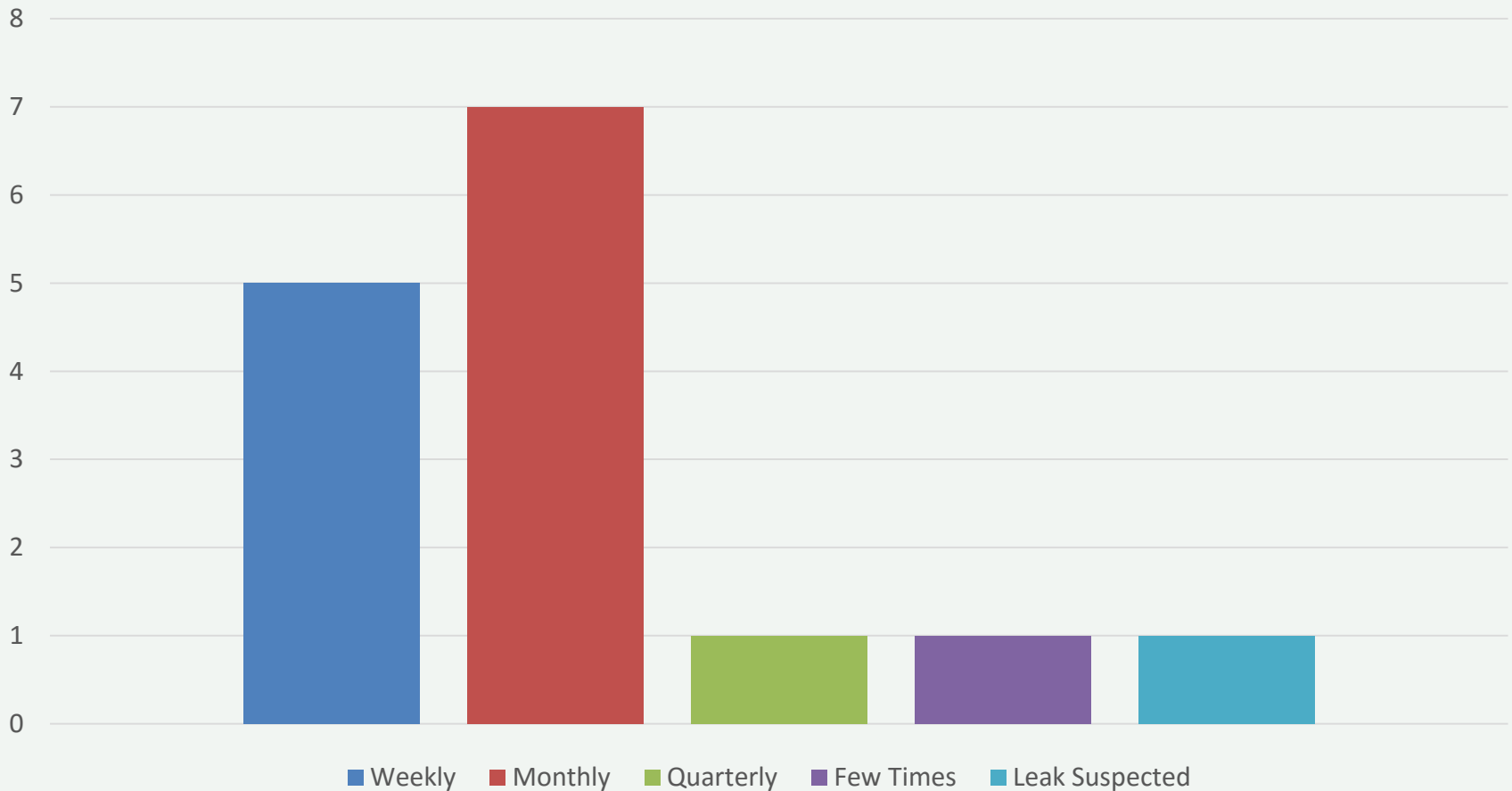
Leak Prevalence

- 30% of entities on average
- 13 days (on average) left leaking
- 0.3 gallons/hour - 500+ gallons/hour
- Disconnect with facilities



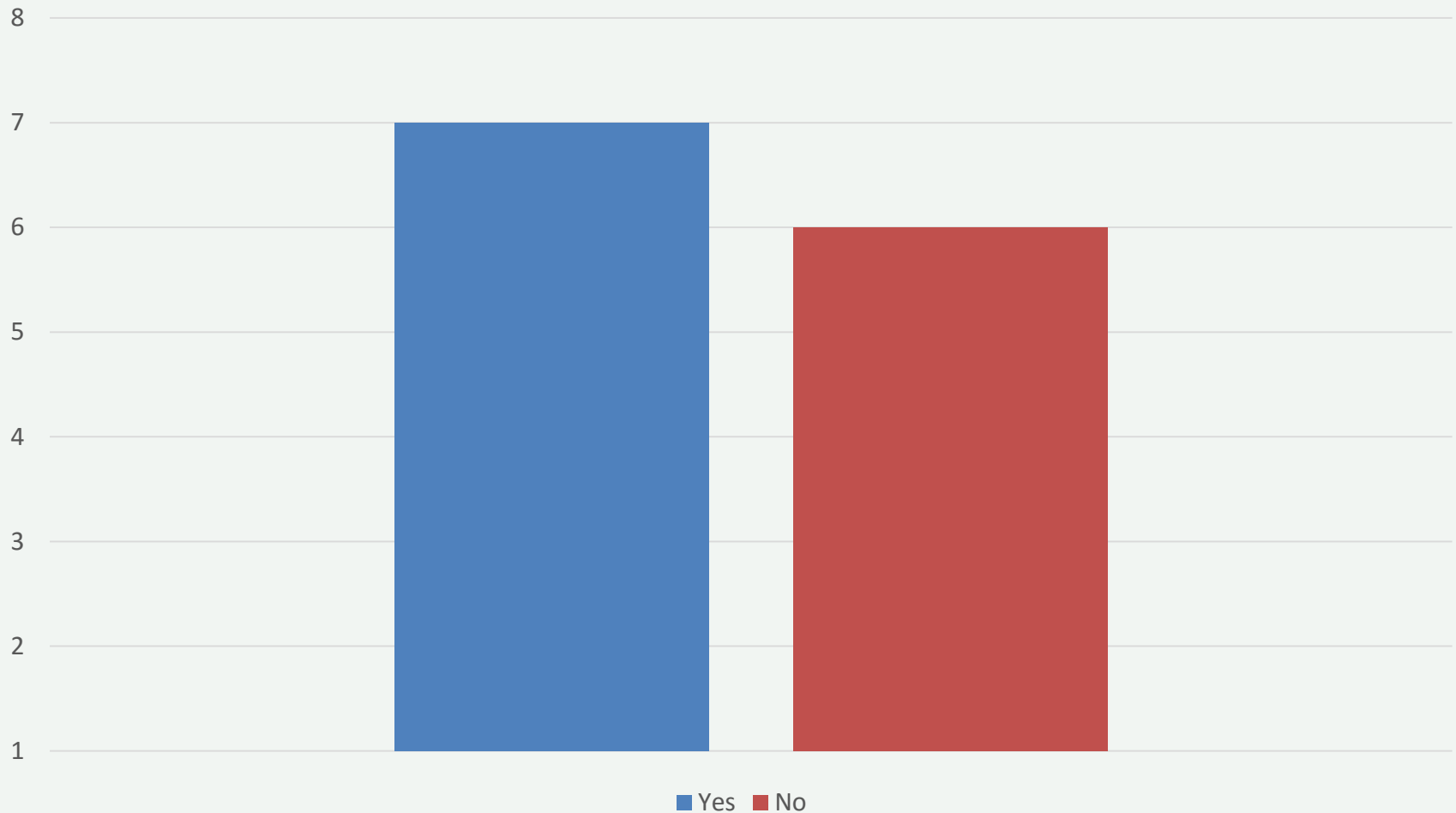
Survey results


On average, approximately how often did you check your water use through the Barnacle online platform?



Survey Results

Did your company implement any water savings measures or behaviors because of the Barnacle?



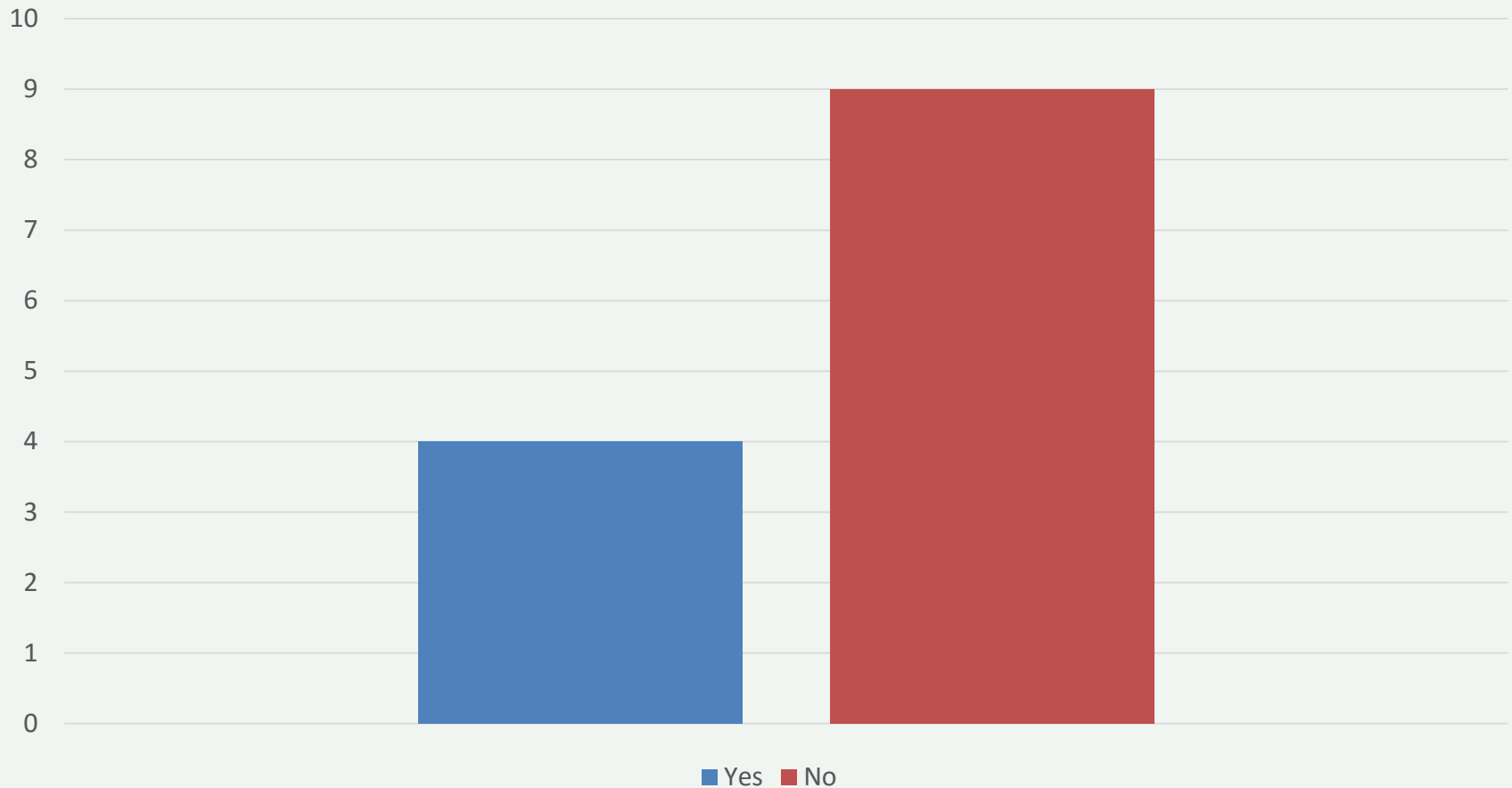



“All staff and residents are aware of our barnacle which has tied in perfectly with the drought. We have all discussed, from turning off (the water) while shaving to using less water when washing dishes, cut back and repairs with irrigation...”

- Staff at Retirement Facility

Survey Results

Did you use the leak alert email notice service through the Barnacle online platform?



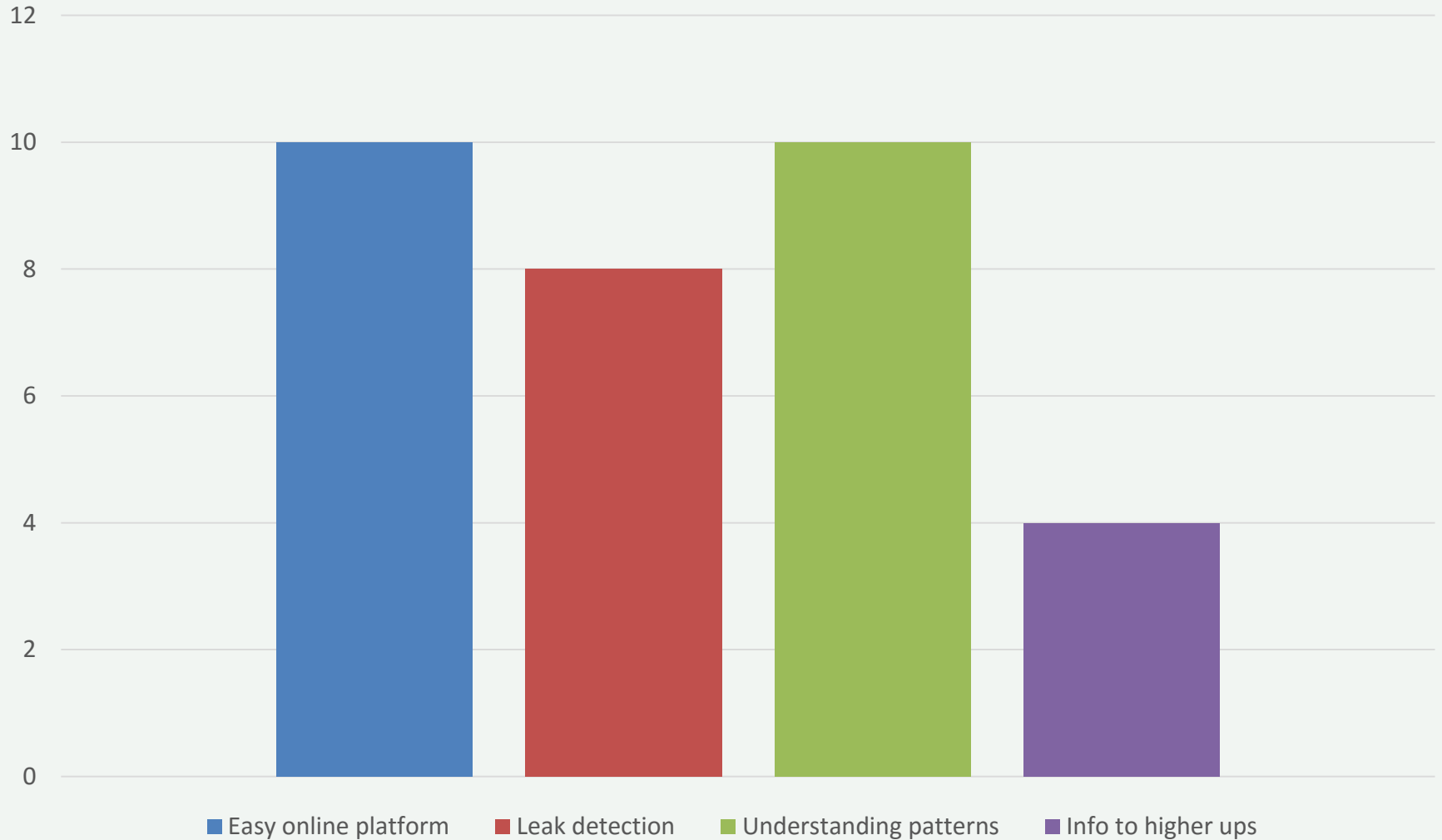



“I was able to track how much water my drip system used and realized that the timer was set incorrectly after a power failure resulting in daily watering, not every 3 days. By using the Barnacle I was able to find and correct this problem sooner.”

- single family customer

Survey Results

What did you like most about the Barnacle platform?



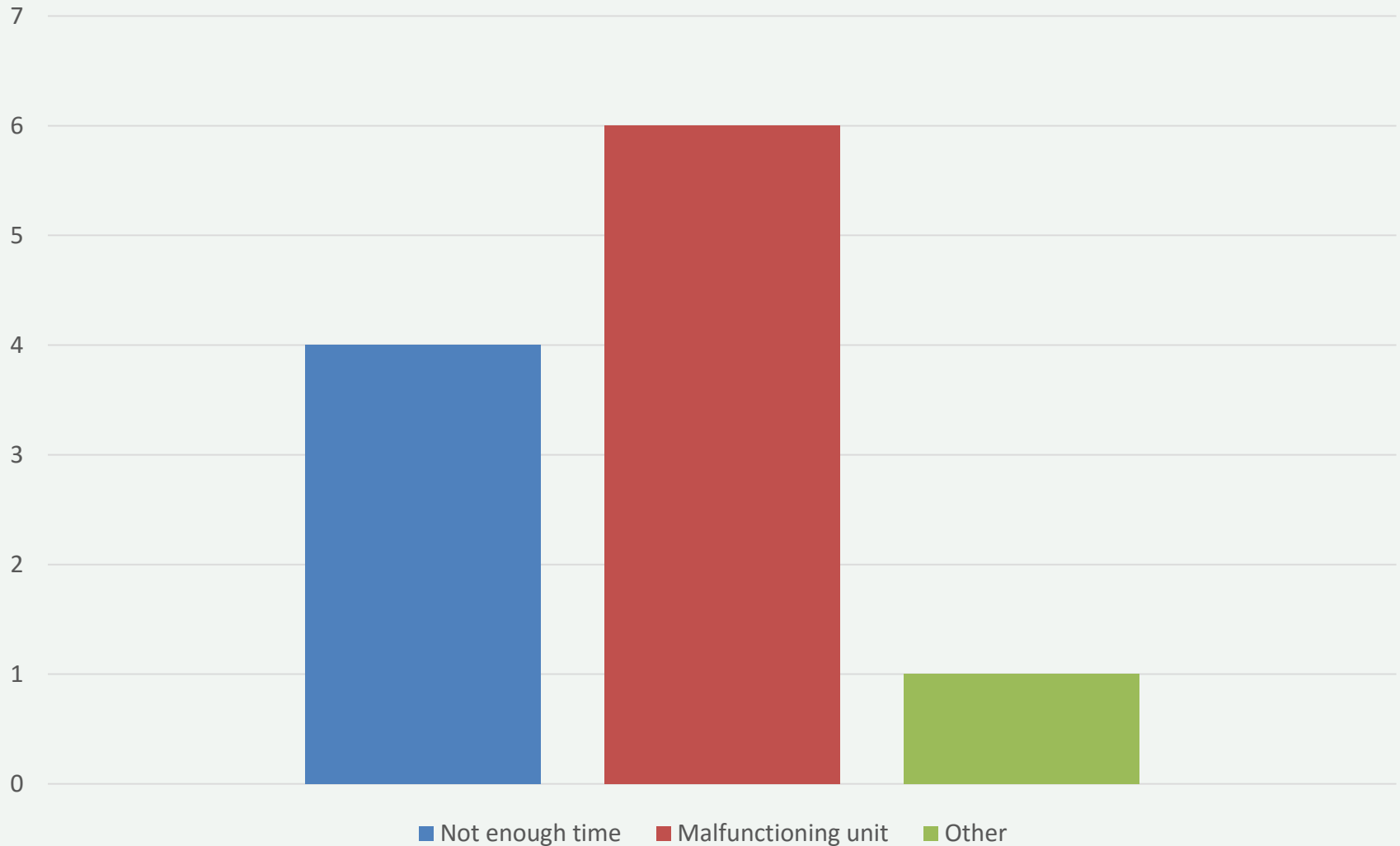


“We were able to view when the leak started and if we thought we fixed the issue. It was great to be able to view the activity without having to visit the site. Sometimes, it simply requires the landscaper to respond, make an adjustment, then we can confirm from our office that it had been fixed.”

- Property management company

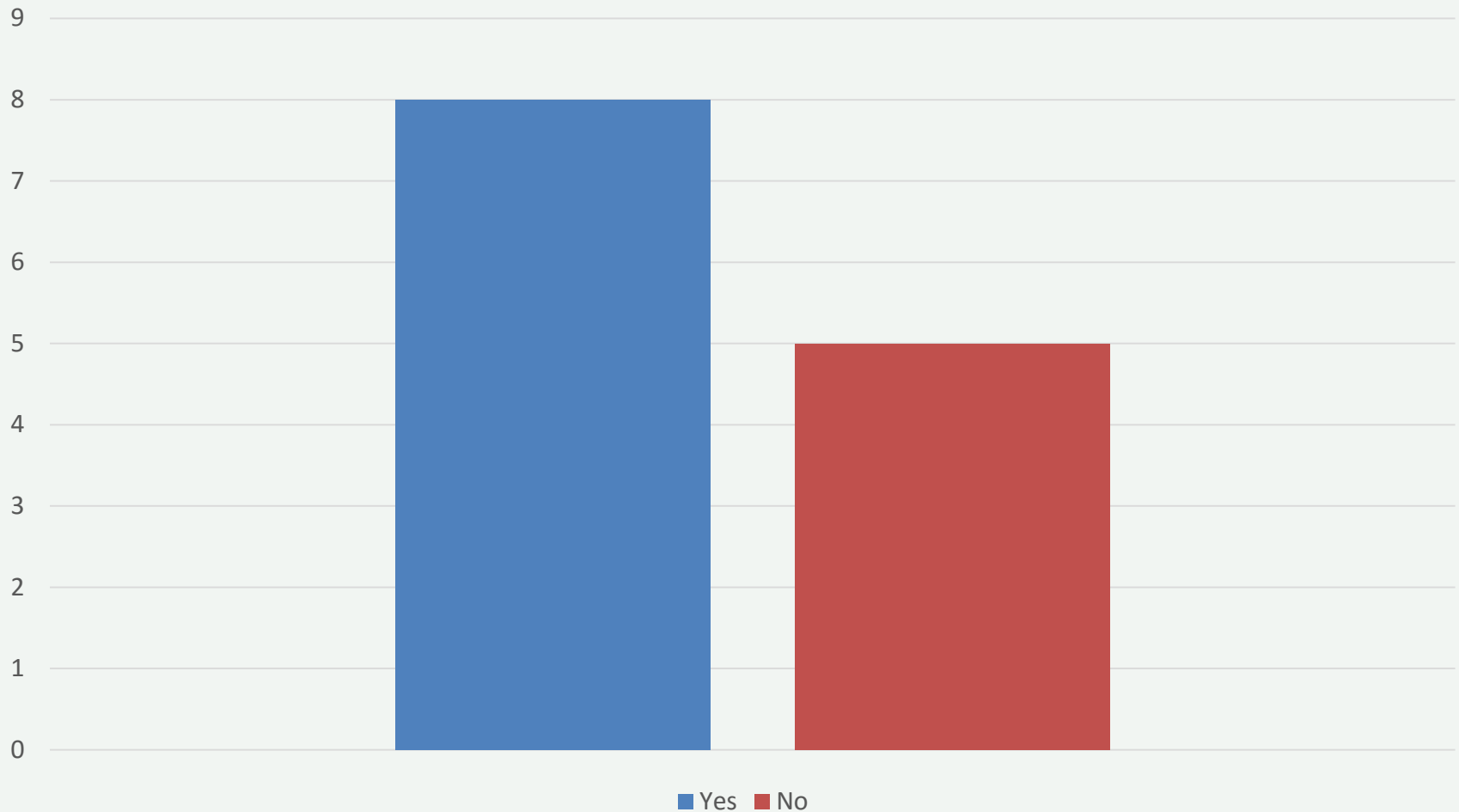
Survey Results

What was your biggest hurdle in using the barnacle?



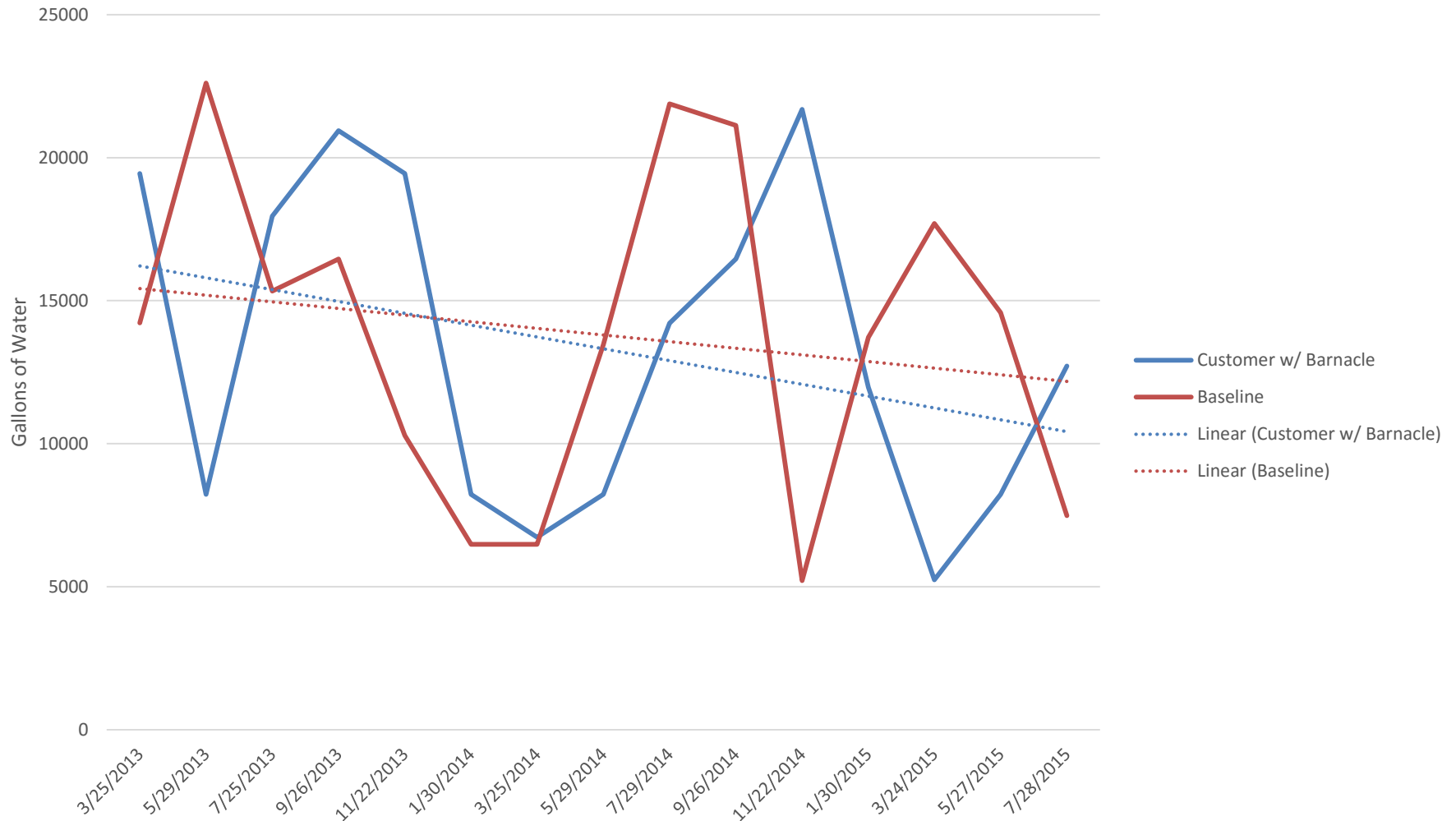
Survey Results

Do you think that the Barnacle helped you save water?



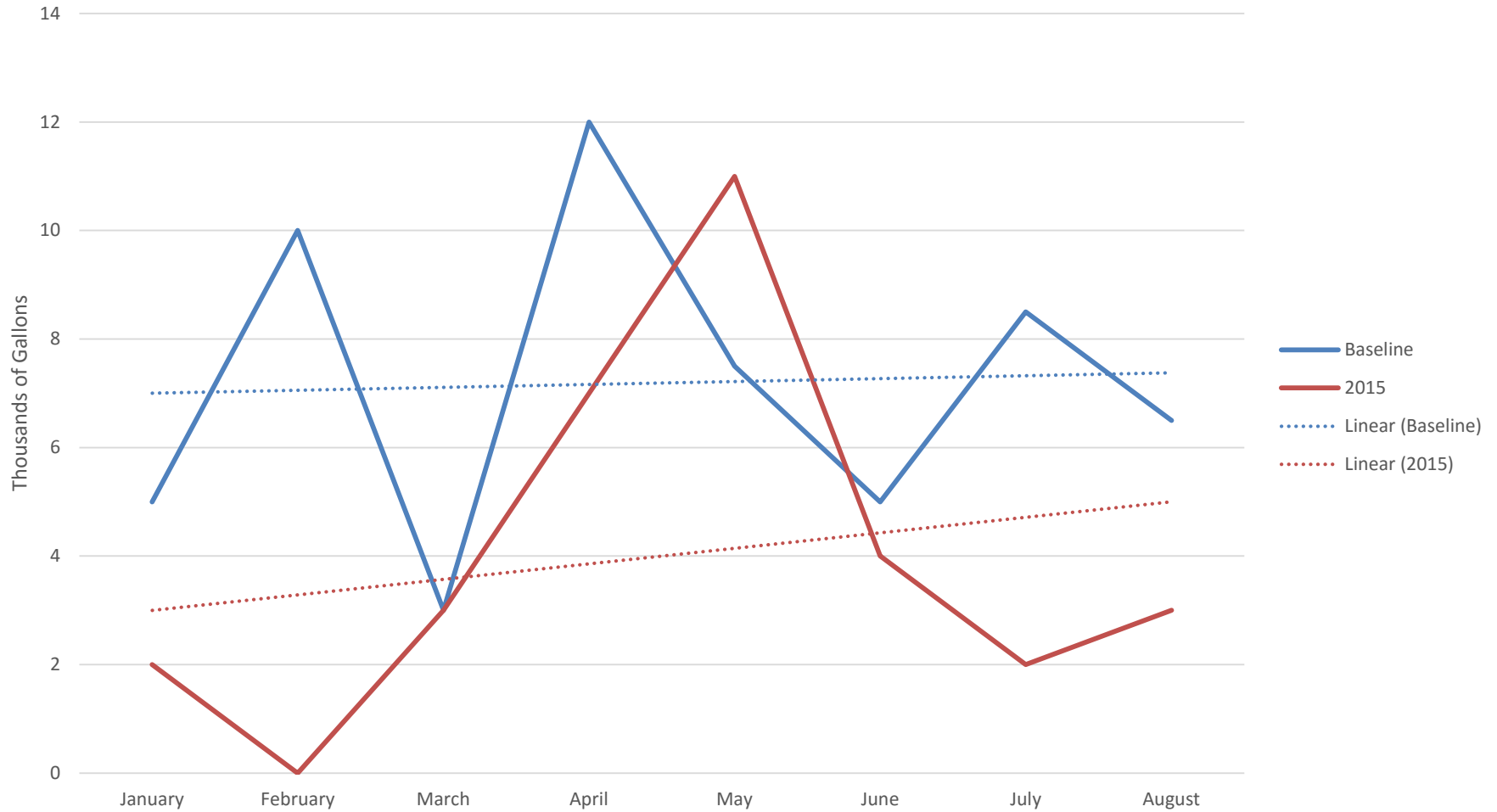
Case Study 1

Water Consumption, Single Family



Case Study 2

Domestic Water Consumption, Commercial



Final Thoughts

- Disconnect within the company
- More training needed
- Good customer service



Questions?

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