

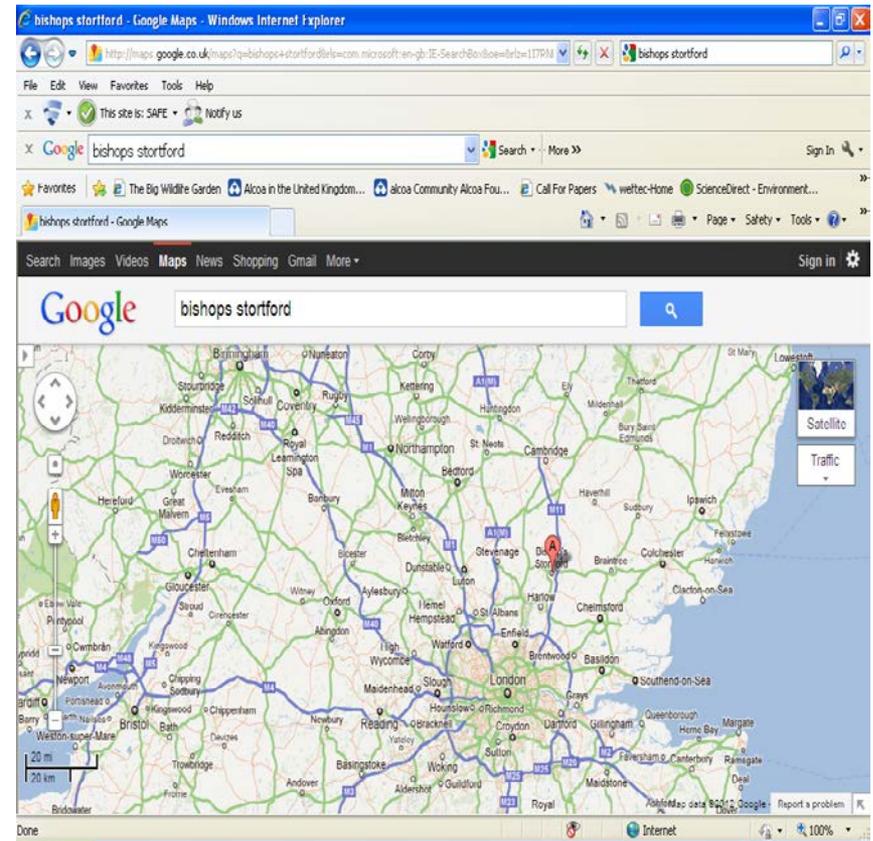


# **An exploration of customer attitudes toward water conservation measures in East Hertfordshire**

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# Introduction

- Affinity Water ran a seasonal tariff metering trial involving 1600 domestic properties in the area of Bishops Stortford, Hertfordshire.
- Trial was undertaken to evaluate the role of a variable pricing structure on consumption, in particular domestic water consumption during the traditional peak summer period (May-August).



# Introduction...

## Seasonal and standard tariff trial rates

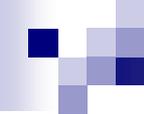
	2008 Charge	Charges from 1 <sup>st</sup> April 2009	Charges from 1 <sup>st</sup> April 2010
<b>May to August</b>	£0.88	£1.4371	£1.4337
<b>April, September to March</b>	£0.88	£0.6129	£0.6115

price per cubic metre



# Introduction...

- 2009-11 usage data showed average summer monthly consumption to have increased by approximately 3% in comparison to other metered customers in the area.
  
- Study sought to explore:
  - consumer attitudes to the seasonal tariff trial in an attempt to reveal why there has been an observed increase in water consumption.
  - consumer awareness of and attitudes toward water use and its monitoring.
  - attitudes toward current and alternative pricing approaches, as well as alternative conservation approaches



# Methodology overview:

- Twenty consumers were selected for participation in the study.
- The study adopted a face-to-face semi-structured interview approach.
- Selected consumers were split into two equal sized groups depending on their usage (increase or decrease groups were created).



# Main findings:

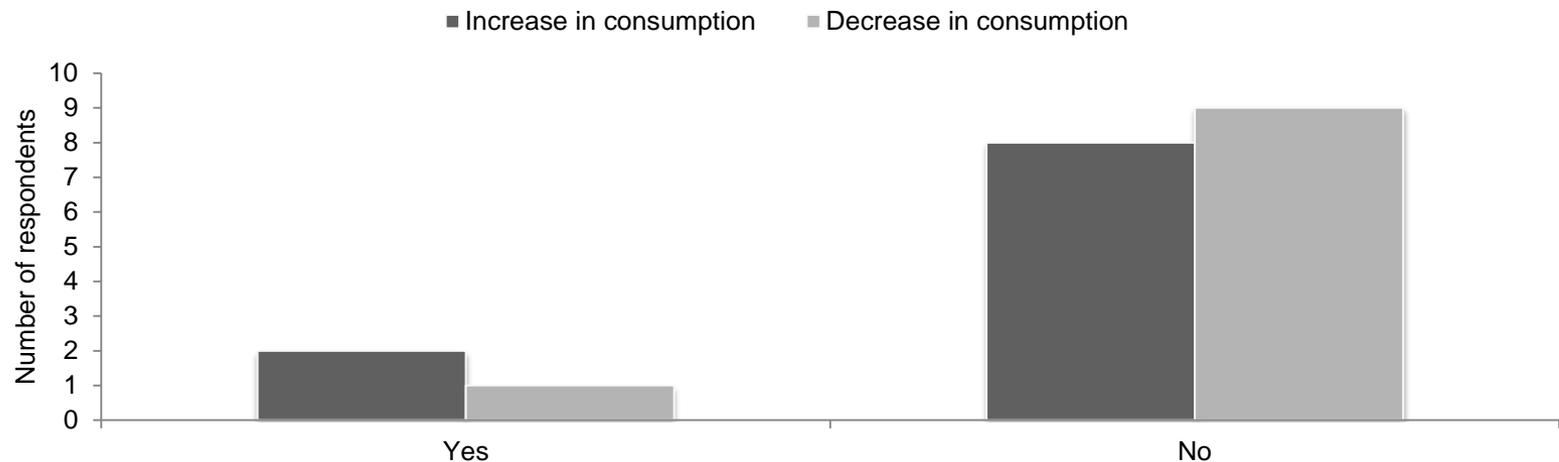
- All respondents were found to be aware of the need for water conservation saying they had role to play in conserving water.
- However, respondents were found to exhibit a low level of awareness and to be disengaged from measures designed to facilitate a reduction in water use:



# **Consumer engagement with the seasonal tariff trial and its impact on behaviour**

# Results:

- 85% of respondents reported that their usage had not changed since the seasonal tariff was introduced
  - 70% of those in the decrease usage group said they did not know if their water usage had changed



*“No. For one particular reason - the kids don’t know about it! And basically our habits have stayed the same”. (Decrease)*

*“No, because we were not excessive users beforehand and so we did not think it was going to affect us [...] we assumed the cost was going up because of people using water to wash their cars and water their gardens [...] we don’t do that”. (Increase)*

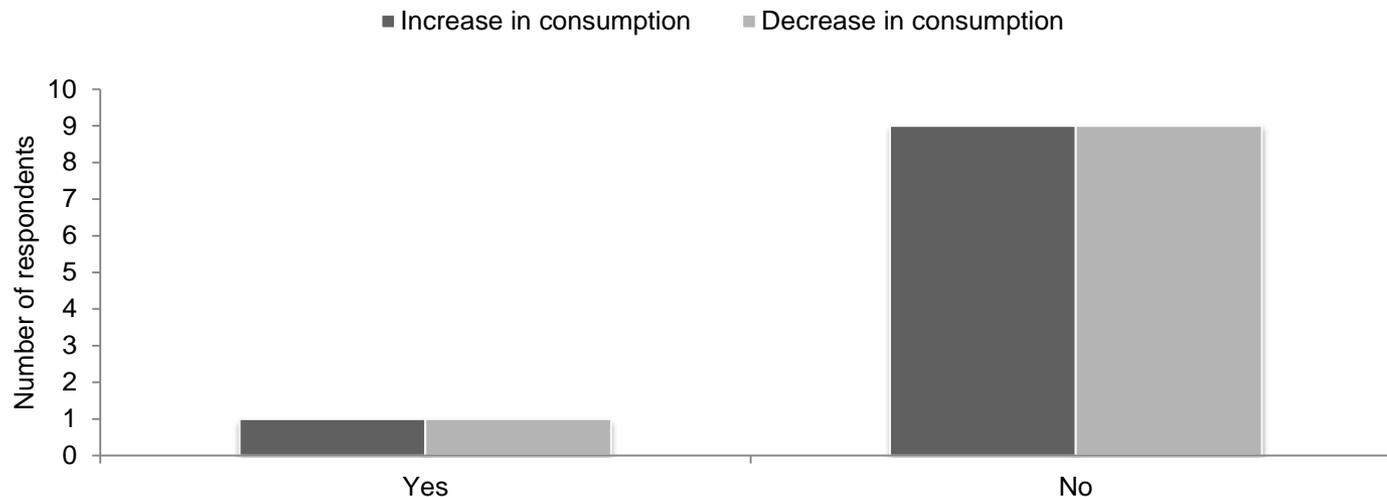
# Decrease in water usage due to chance?

*“It’s probably stayed the same [...] because we’re generally water conscious and we’ve made no lifestyle changes since being in the seasonal tariff. We all shower in the morning, people then like to have a bath as well in the evening. We’ve had a water butt since before the seasonal tariff started. I don’t see that the seasonal tariff has had any impact on our habits”.*  
(Decrease)

*“No idea [...] maybe it has stayed the same”.* (Decrease)

# Results:

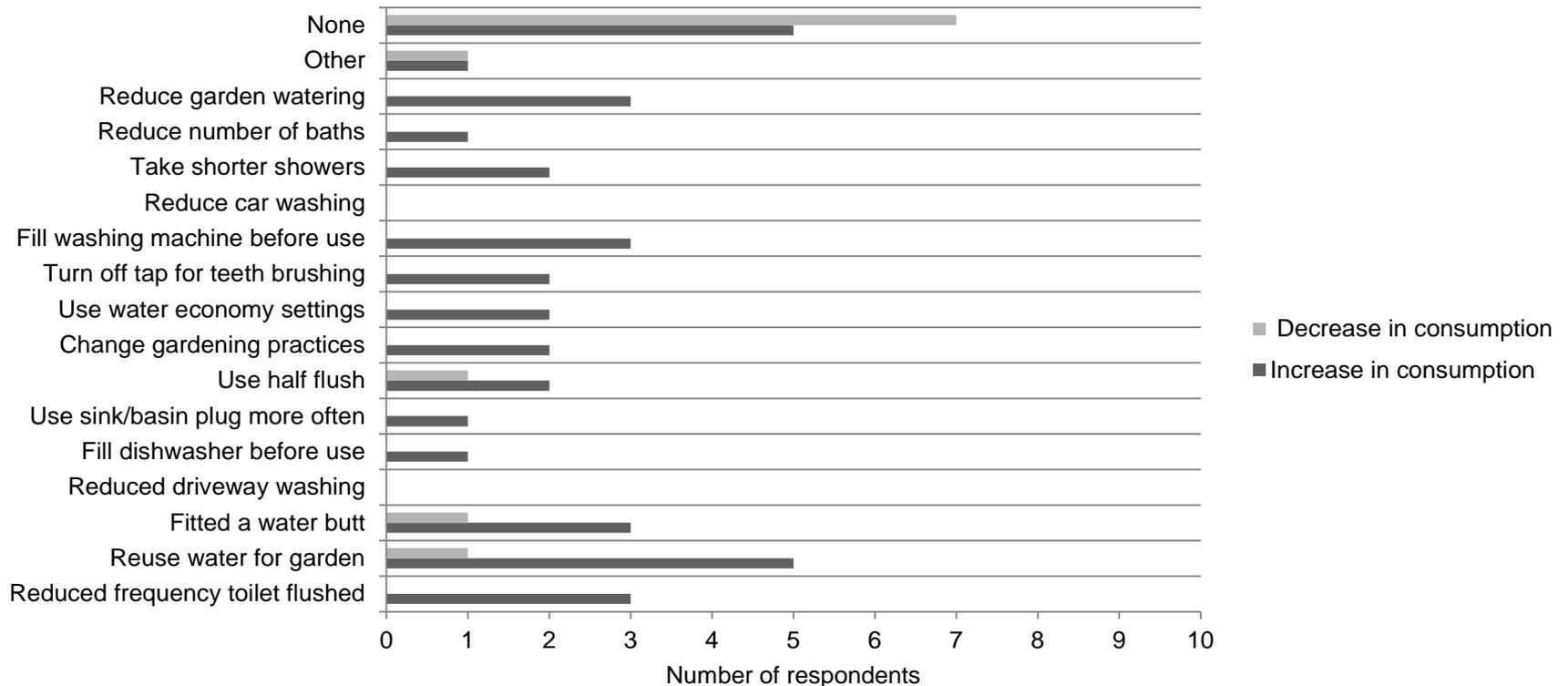
- 90% of respondents said that the seasonal tariff trial had not prompted them to fit water saving devices



- 60% of respondents said that they had not taken any actions to reduce their water usage during the trial
- 20% of respondents had forgotten they were participating in the trial

# Customer actions taken to reduce water usage since the seasonal tariff trial has been operational

- Striking that the usage group claiming to have taken the most actions is the increase group (50%), with the decrease group demonstrating the greatest inaction (70%)





# Planned actions:

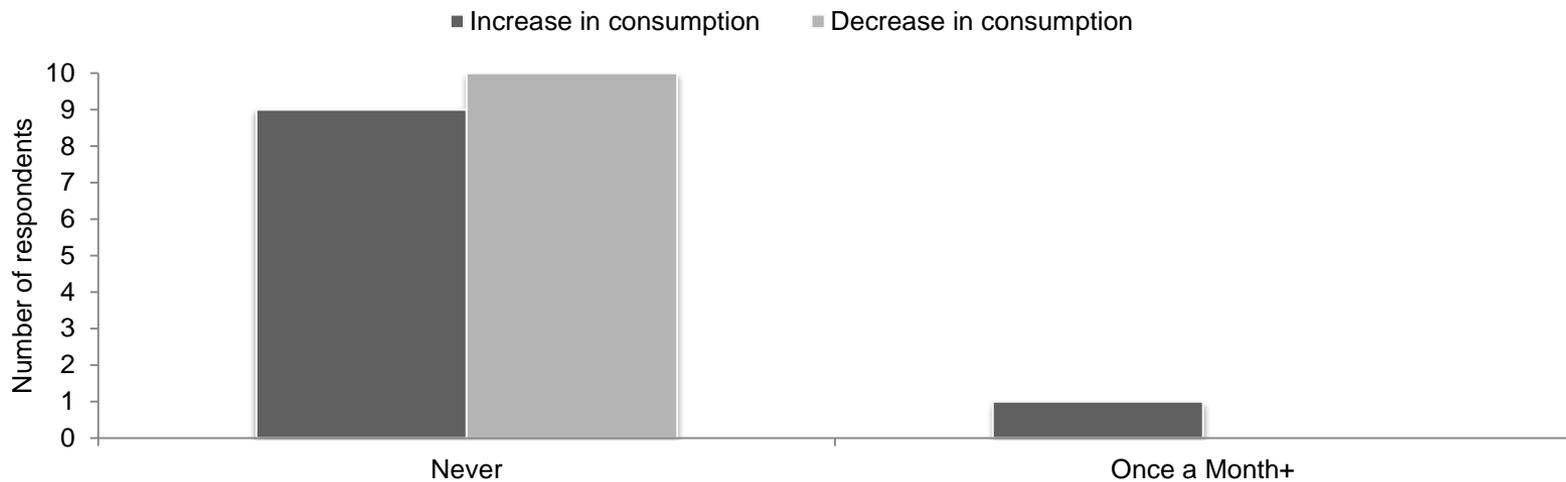
- When respondents were asked what actions they planned to take in their home to reduce water usage during the current seasonal tariff period:
  - 55% of respondents said nothing, with 60% of those in the decrease group saying they planned to do nothing versus 50% in the increase group



**Consumer awareness of water use, charges,  
billing frequency, and the impact of metering  
on behaviour**

- 95% of respondents were found never to check their water meter

## Customer frequency of water meter inspection



### Customer comments:

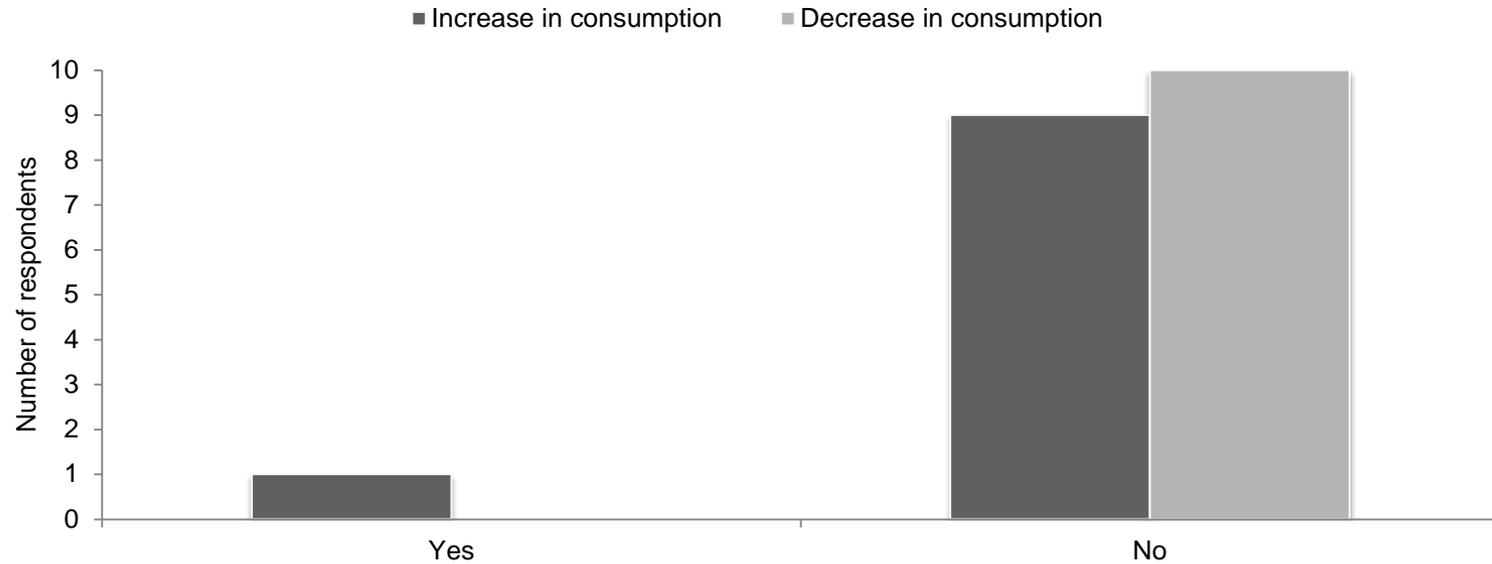
“Never, largely because it is 3 feet down a hole in the front garden!”. (Increase)

“Never [...] I have never given any thought to it, I don't even know where it is”. (Decrease)

- 60% of respondents stated that receiving a metered water bill did not make them reflect and take action to reduce water usage

- 95% did not know how much water they use

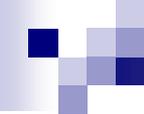
## Customer awareness of domestic water consumption



### Customer comments:

*“Absolutely no idea [...] a cubic metre of water means nothing to me [...] it really is hard to understand how much water you are using and what that actually means, entails etc...”. (Increase)*

*“No, not a clue”. (Decrease)*

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- 60% of respondents thought that extra charges should apply for higher than average water use
  - 80% of respondents thought that water prices should not in general be increased in order to encourage people to use less water / water conservation
    - respondents viewed water as an essential resource they cannot do without and usage as somehow fixed and unalterable

*“No, because it would penalise everyday usage and that would not be fair [...] I can't do anything about my usage [...] (water) is not something that you think about when you use it”. (Decrease)*

*“If that is where the money goes, and I doubt it would [...] I think it is something to consider so long as you could clearly demonstrate that is where the money went and not on reducing leakage for instance”. (Increase)*



# **Alternative approaches to water conservation**

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- Consumers were found to be positive towards a range of alternative approaches designed to reduce water usage:
    - consumers were very positive towards the fitting of free water saving devices (70%)
    - the subsidisation of more water efficient household appliances (75%)
    - the offering of a rebate on their water bill, if they were to reduce their water usage (70%)

# Conclusions

- Consumers appear not to view their usage of water as a problem - their actions do not matter.
- Poor consumer awareness and engagement is serving to undermine attempts to reduce water usage via methods that aim to change in behaviour.
- Decreases in water usage are more than likely due to chance rather than a series of deliberate actions by consumers.
- Water consumers in the Bishops Stortford trial area are not price sensitive to the costs involved in using water.
- Simply increasing water prices at seasonal peak usage times, in a cost-neutral framework, is unlikely to be an effective method of managing domestic water demand in the short to medium term
  - Consumers need to be targeted with a diverse range of policies and programmes at any one time, particularly if a sustained decrease in water usage is to be achieved.