

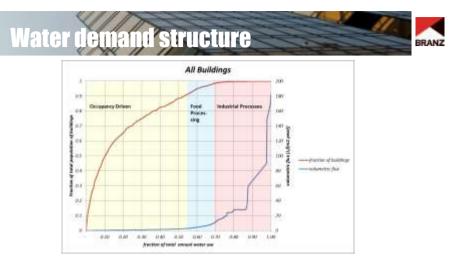
BEES water objective

- Increase understanding of water use in non-residential buildings
 - Heterogeneous group
 - Accommodates businesses

BEES

- · Only commercial buildings
- · No industrial activities
- · Emphasis on office and retail use
- Water study went beyond BEES sample framework, but only for Auckland at a property level





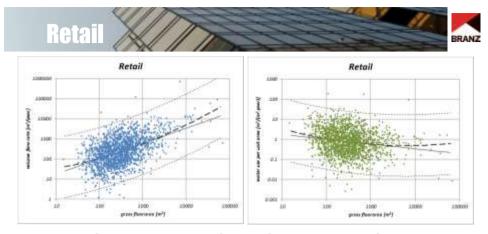
- ► 54% of demand from 92% of buildings use less than 3,000 L/(m² .year)
- ▶ Industrial process threshold set at 10,000 L/(m².year)





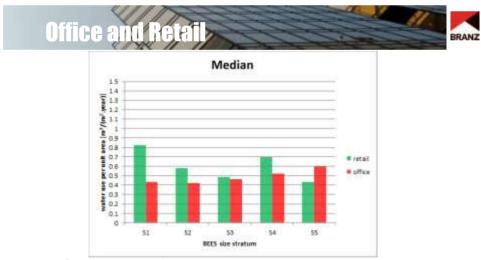
- ► Water use relationship with floor area
- ► Average annual water use is 540 L/(m².yr)





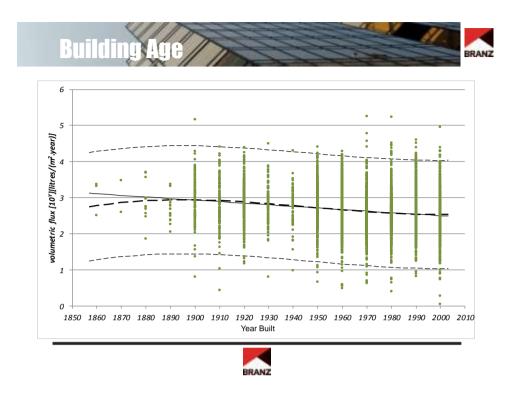
- Median water usage in retail decreases with building size
- ► Retail has a wide range in water use
- ► Average annual water use is 1,200 L/(m².yr)





- ► Small to medium retail uses more water than offices
- Larger offices use more than retail









Water usage varies over tremendous range

- Building size explains some of the variance, but creates questions
- Occupancy and presence of food processing drives water use
- Age does not seem important, new buildings are not better

► Reference base line for Auckland

- Makes benchmarking possible
- Important for those aiming to do better

