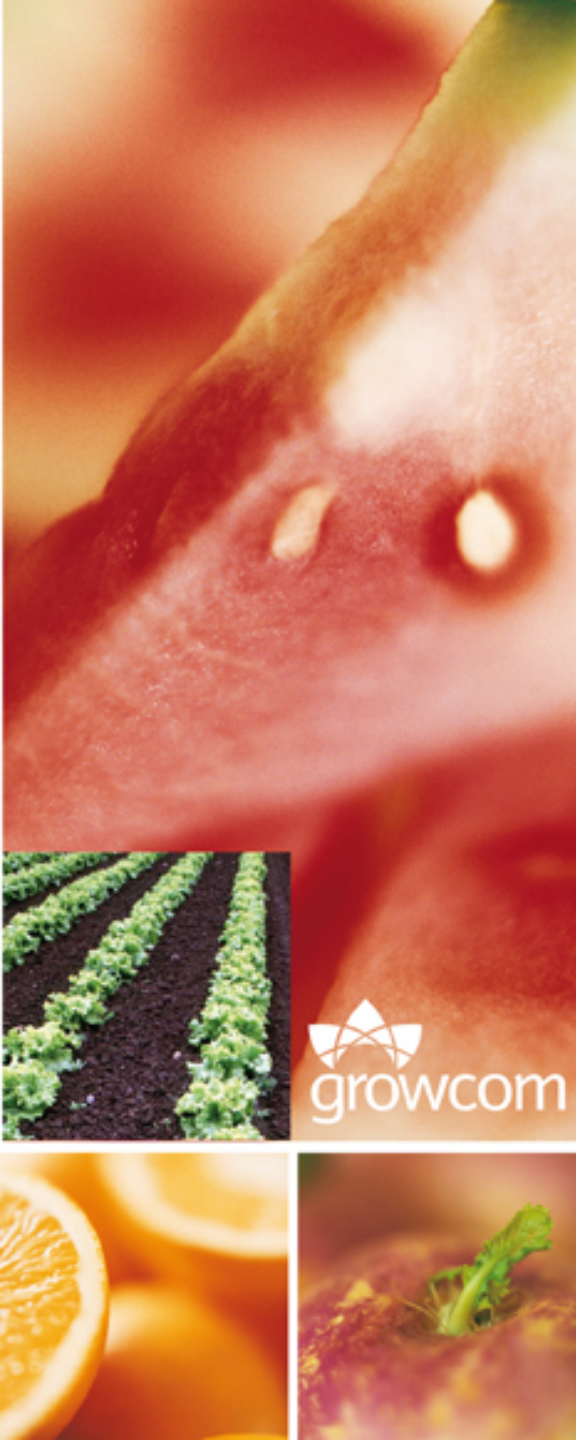




# Irrigation & Energy in Horticulture

*Presented by Scott Wallace  
Hort360 Manager*



# RWUEI

- 90's – *dam or not to dam*
- *Commenced early 2000*
- \$45M – stage 1 RWUEI to *deliver a RDEI program across multiple industries, DNRM & university (USQ)*
- *This program still exists today*



# Water for Profit (2000 – 2010)

- *>\$230 million/year of gains in water savings and productivity*
- *~60% of horticultural growers changed irrigation management practice (BMP)*
- *>1,600 growers assisted through incentive schemes*
- *10,000+ attendances at activities and workshops*
- *>95% of growers aware of the program*
- *~\$23 industry investment for every \$1 from govt.*

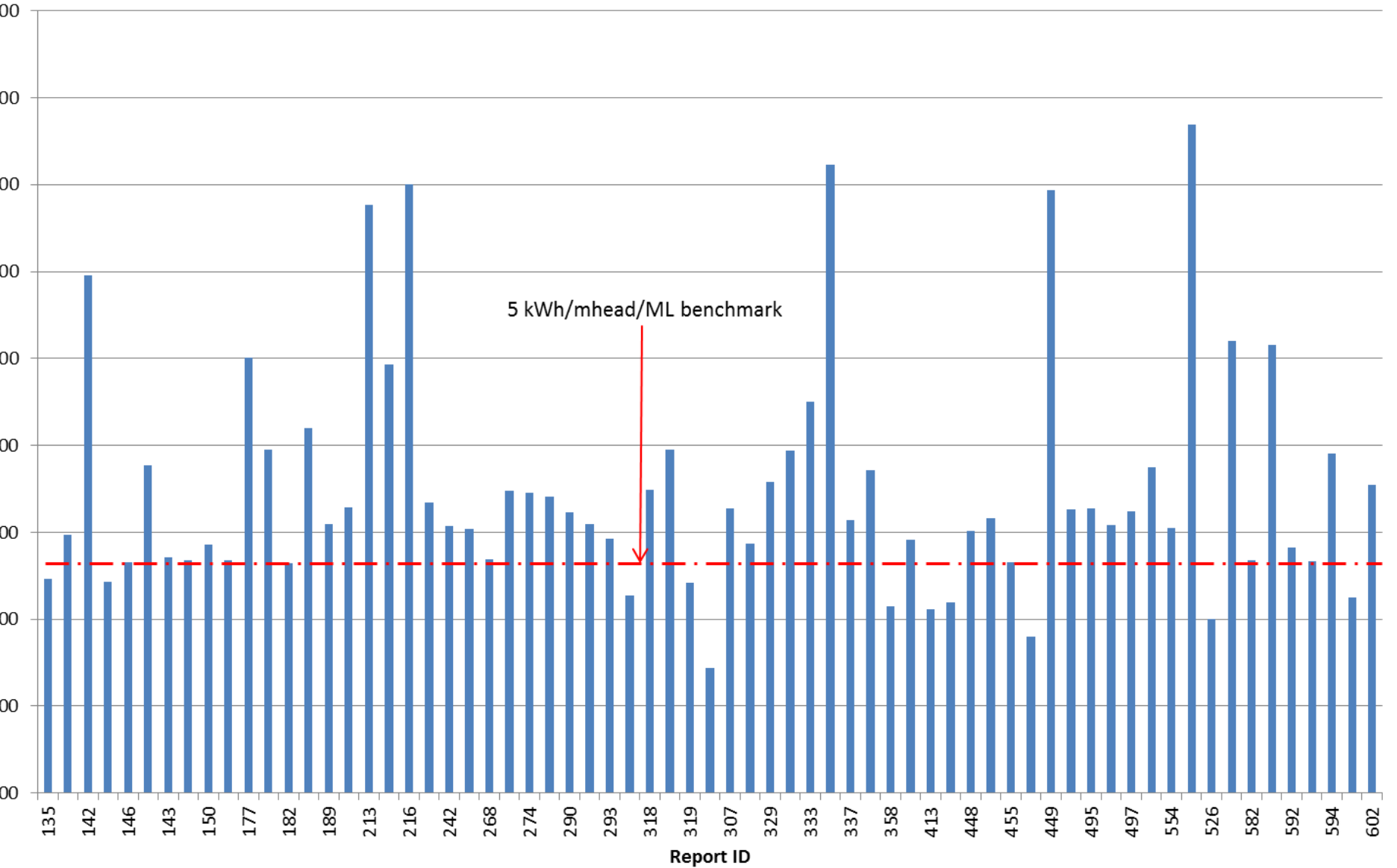


# Water for Profit

- *Then - \$ of water or energy not a driver for change but labour and food quality/grade was*
- Now – labour is still a large \$, water costs more, growers still chase premium product and energy has become an issue
- Within a horticulture enterprise irrigation isn't a huge ongoing expense as long as you get it right
- Packing sheds / processing facilities on farm are the big energy users
  - Energy audits conducted prior to ESP demonstrated some of our large enterprises were using >600kW / day
- Horticulture continues to be a price taker

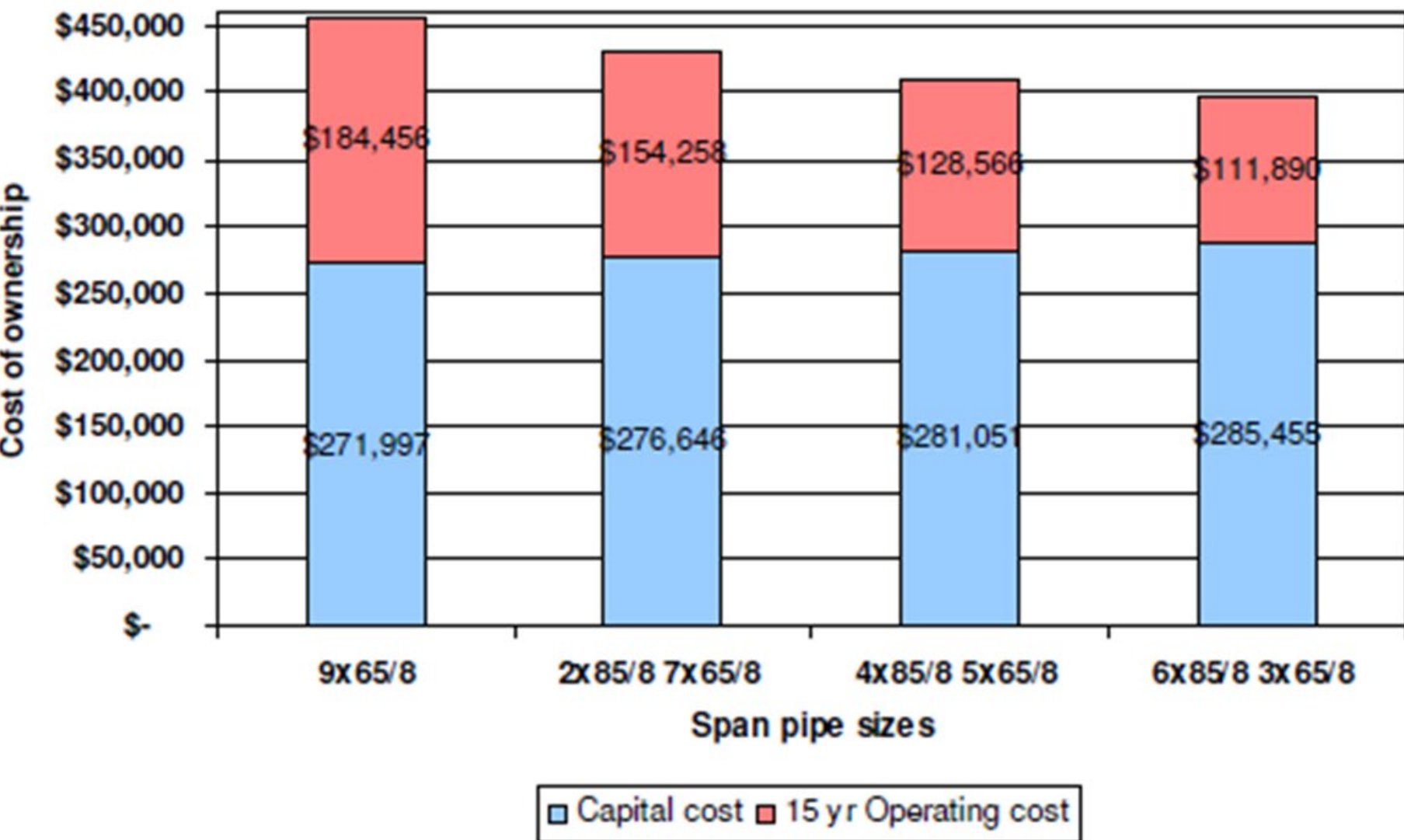


# kWh/mhead/ML





### 9 span CP, 102 L/s, 15 yr ownership



# Costing systems

- A net margin calculator is on NSW DPI website  
<http://www.agric.nsw.gov.au/reader/irrig-costing-systems.htm>
- Use this for a quick check on the annual \$ returns from operating an irrigation system
- uses partial budgeting
- two columns allows comparison of irrigation systems or changes
- Another calculator –  
<http://econcalc.ncea.biz>



# Irrigation Standards

- RWUE-IF Rural Irrigation System Design – Standards and Code of Practice (RISD-SCoP)



## RURAL IRRIGATION SYSTEM DESIGN STANDARDS & CODES OF PRACTICE

