



Government
of South Australia

Murtho/Pike

On-farm CWU Trial

Jahangir Alam

Irrigated Crop Management Service



RURAL SOLUTIONS SA

Project Partner

- **Joint project between the Renmark to Border LAP and Irrigated Crop Management Service**



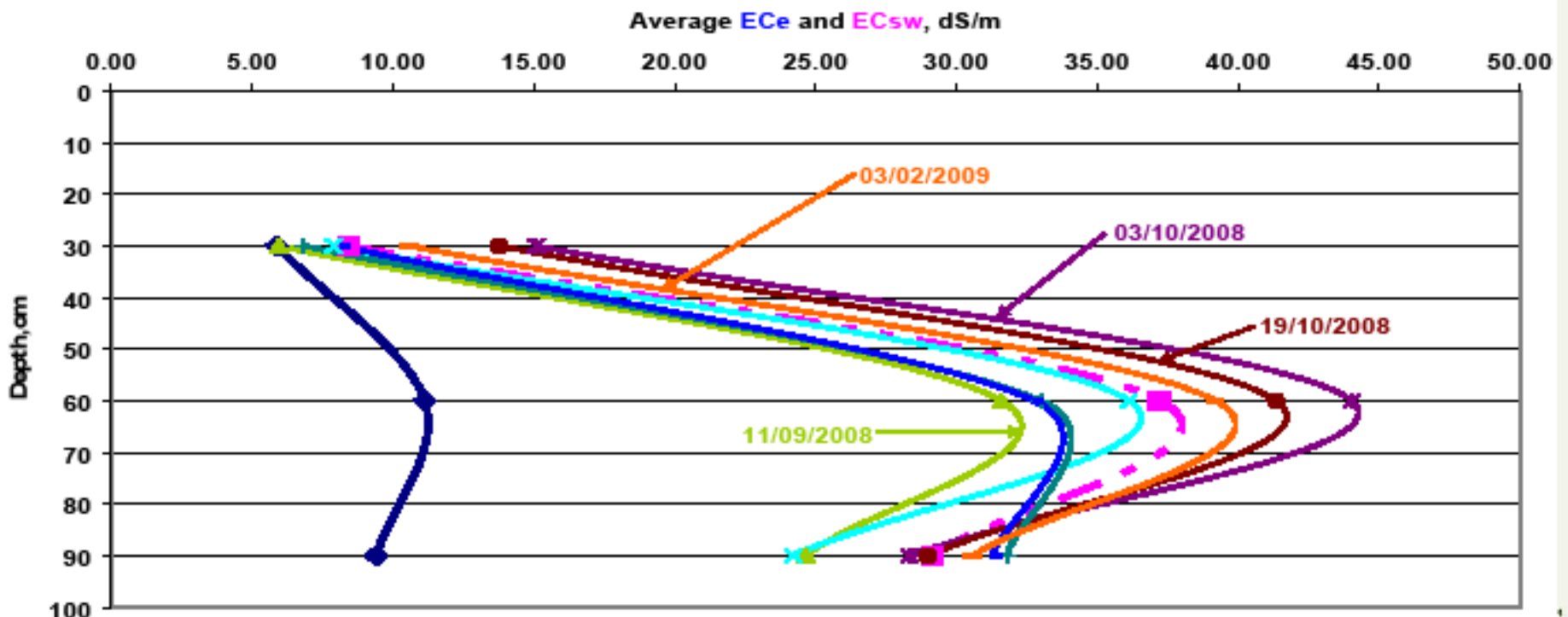
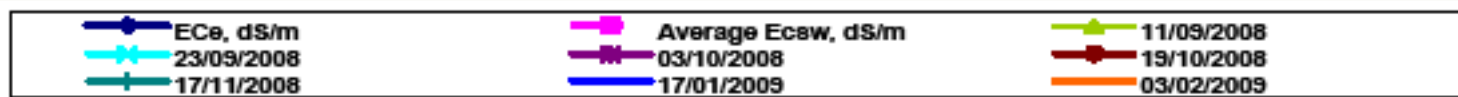
Project Aims

- **Soil salinity trend for different crops under drip and sprinkler irrigation systems**
- **Chloride trend and its relationship with EC and Nitrate movement for selected sites**
- **Estimate deep drainage from IRES, SoluSampler and Soil water Monitoring Devices**
- **Refinement of crop coefficient at valve level using IRES with soil water monitoring data.**



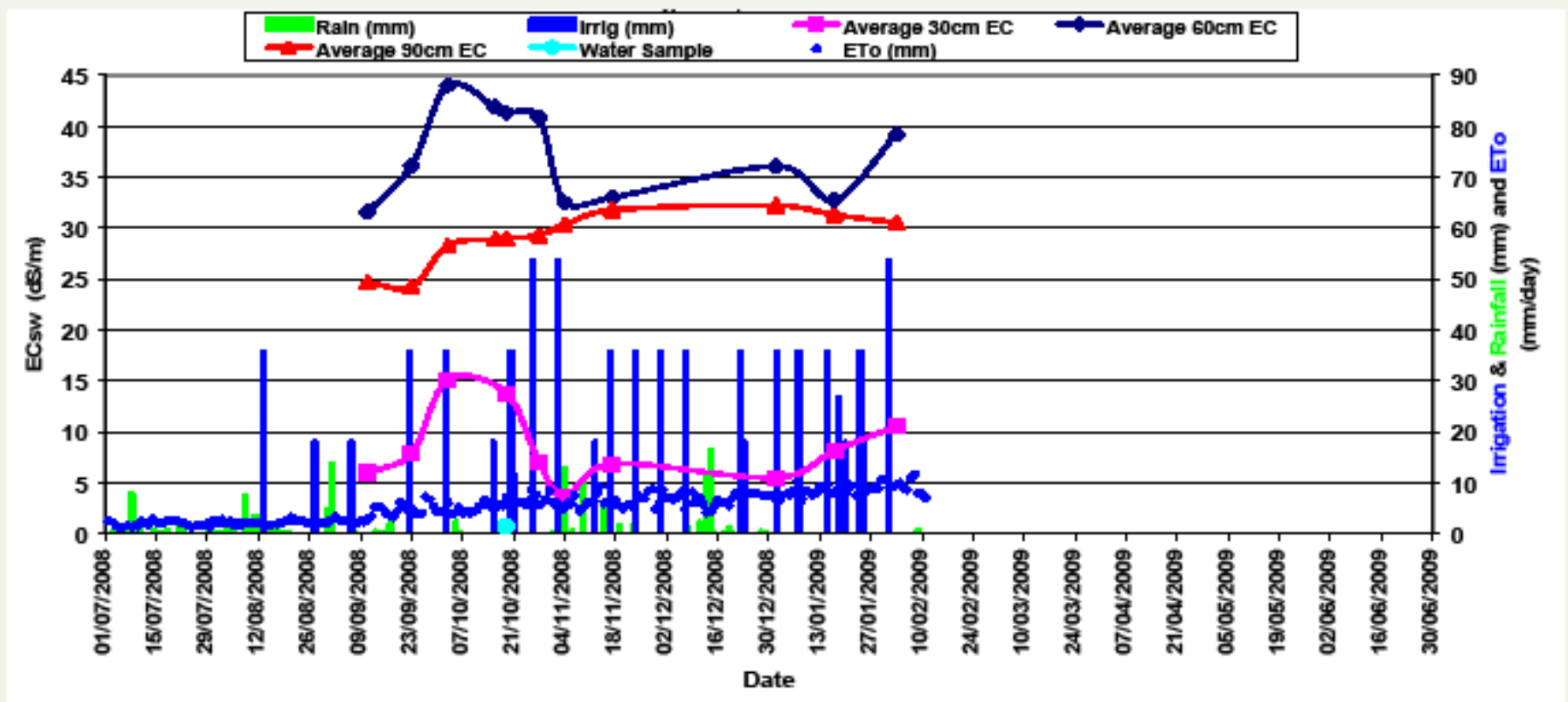
ECe and ECsw vs Depth

- Almonds under canopy irrigation



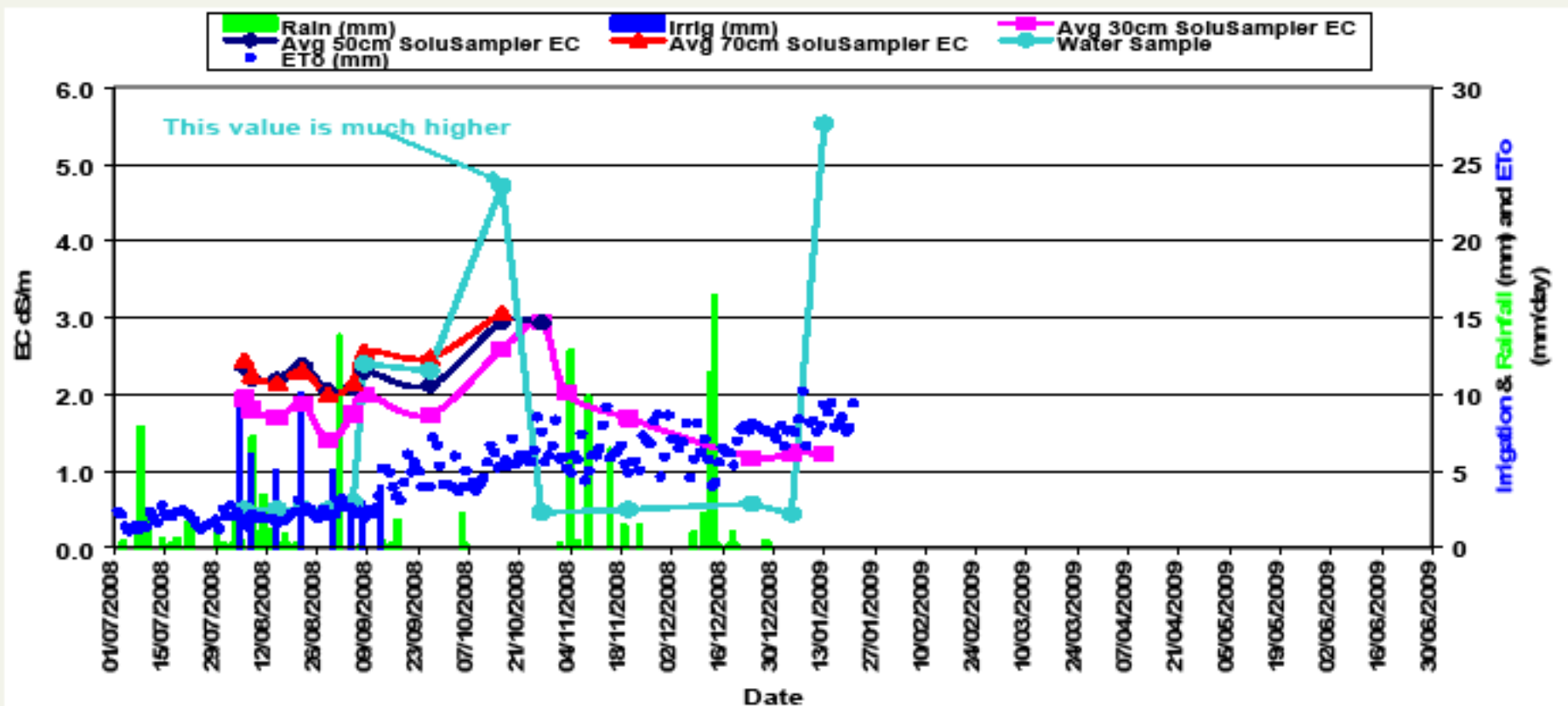
ECsw vs Date – Salinity trend

Almonds under canopy irrigation



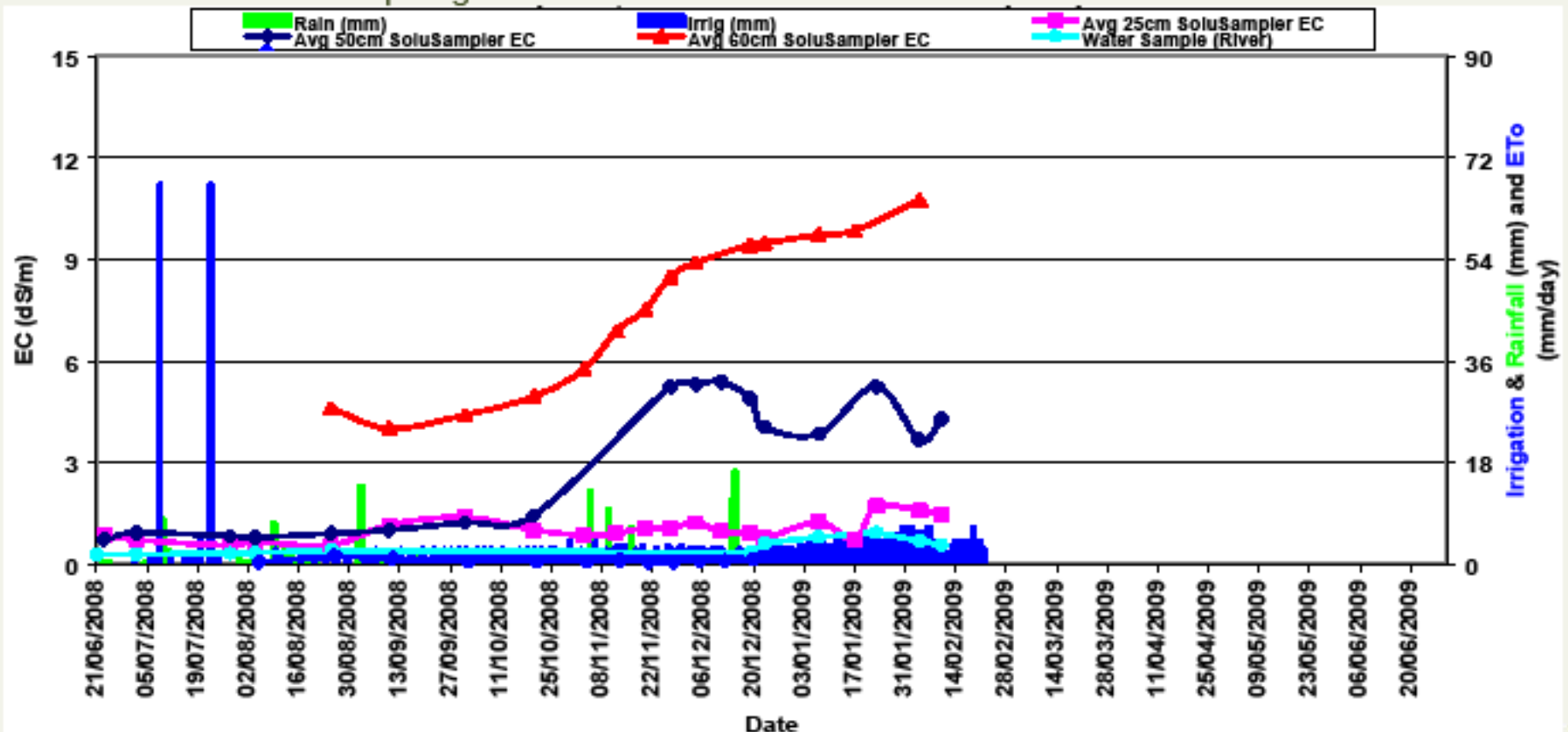
EC vs Date – Salinity Trend

- Stone fruit under drip irrigation system



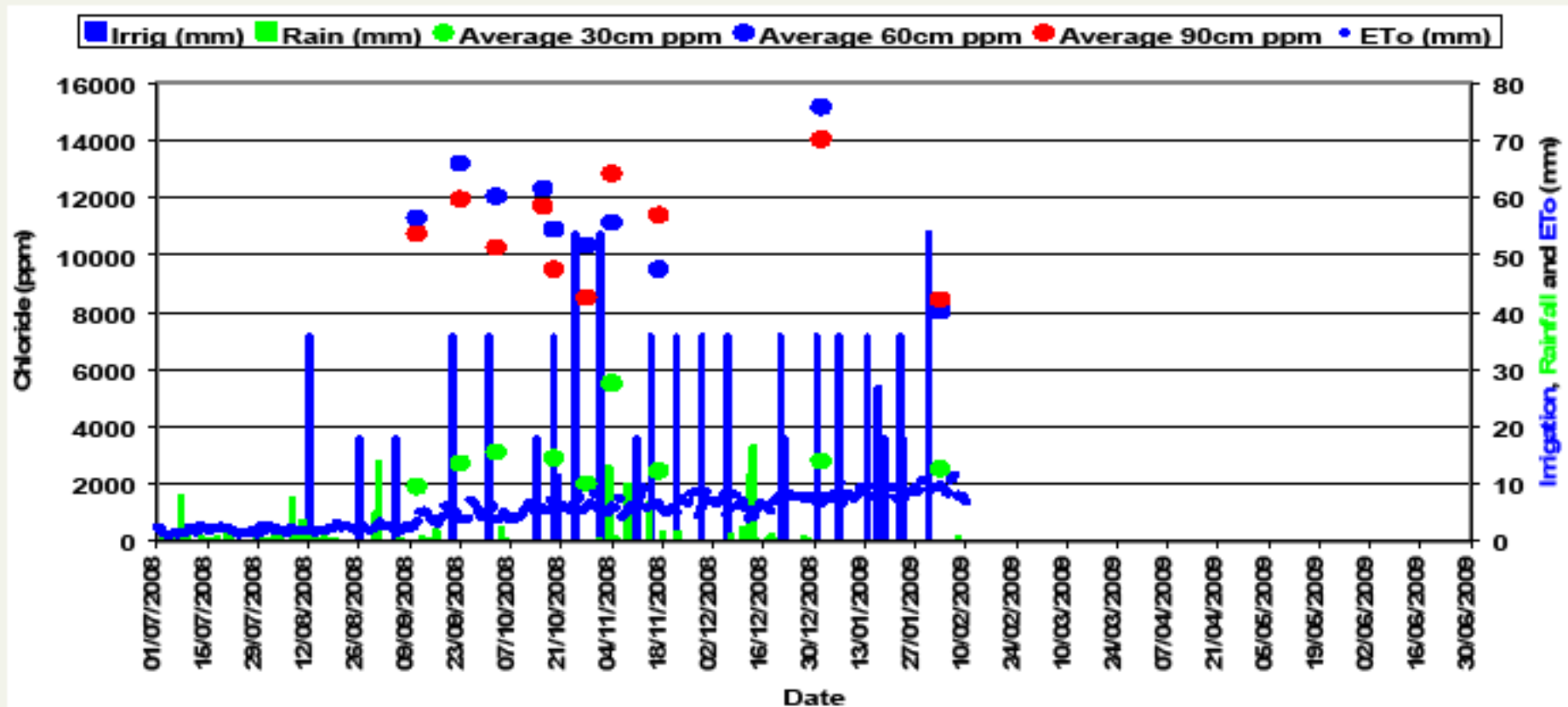
ECsw vs Date - Salinity Trend

■ Citrus under drip irrigation



Chloride vs Date – Chloride Trend

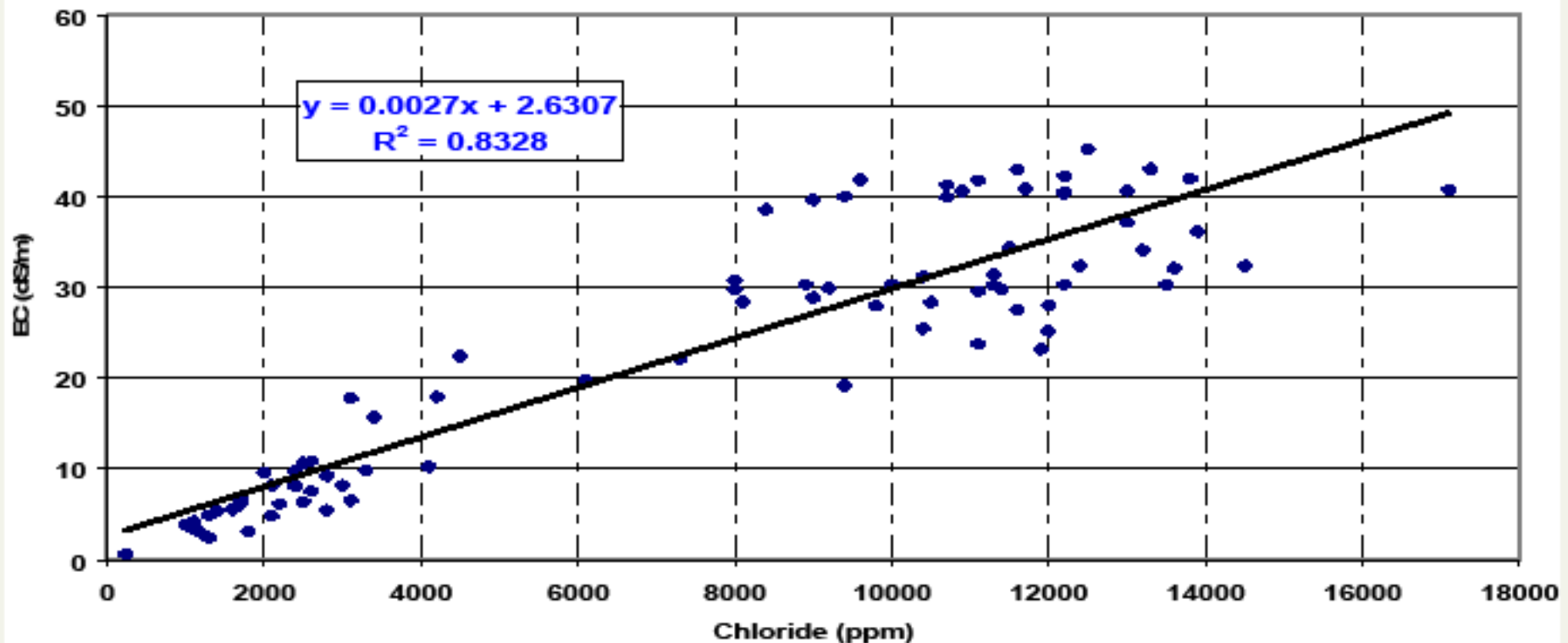
- Almonds under canopy irrigation



Relationship between EC and Chloride

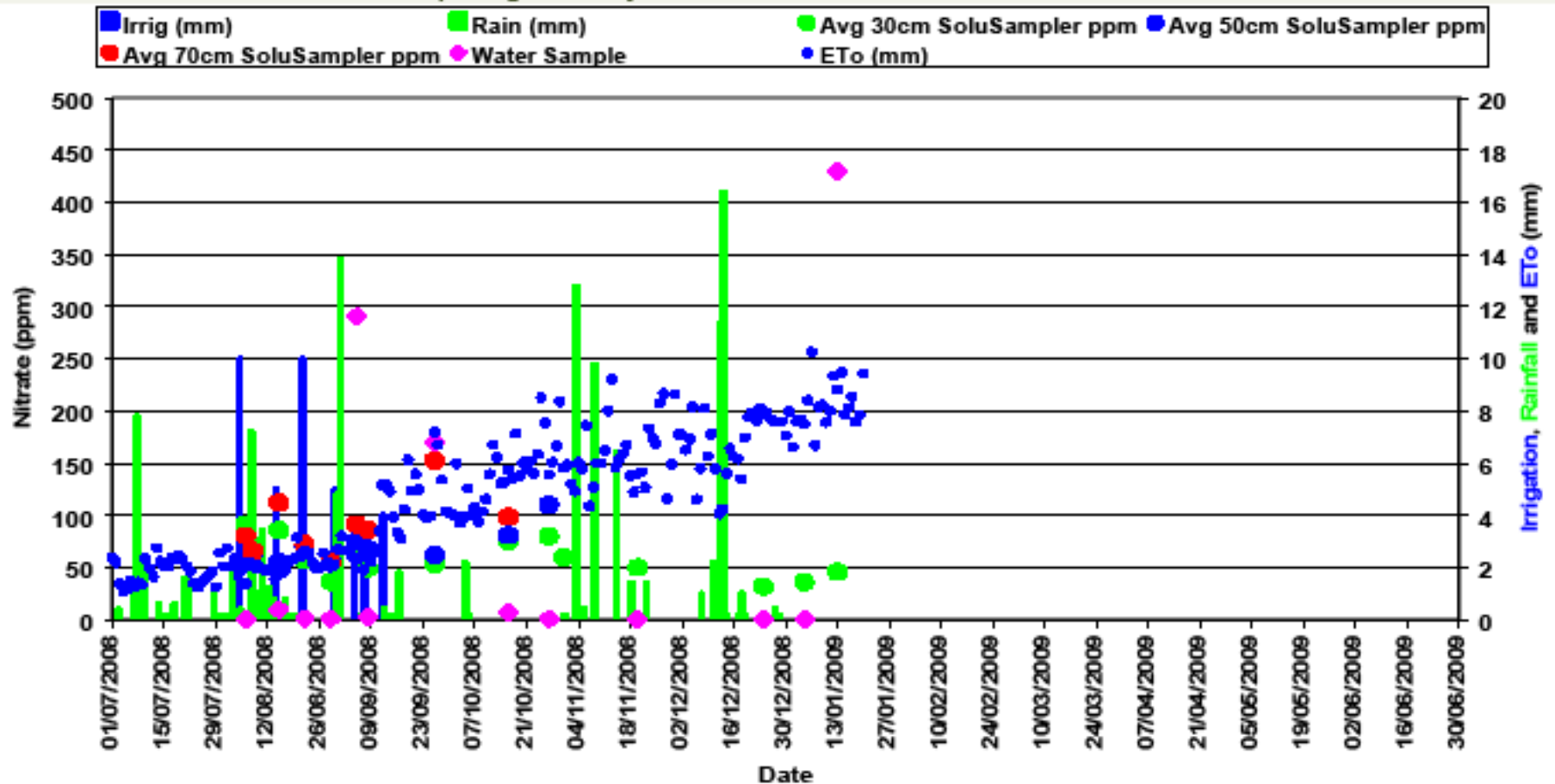
- Almonds under canopy irrigation

Regression between solution Chloride ppm and EC dS/m



Nitrate vs Date – Nitrate Movement

■ Stone fruit under drip irrigation system



IRES Trace with GBug

Citrus under canopy sprinkler

