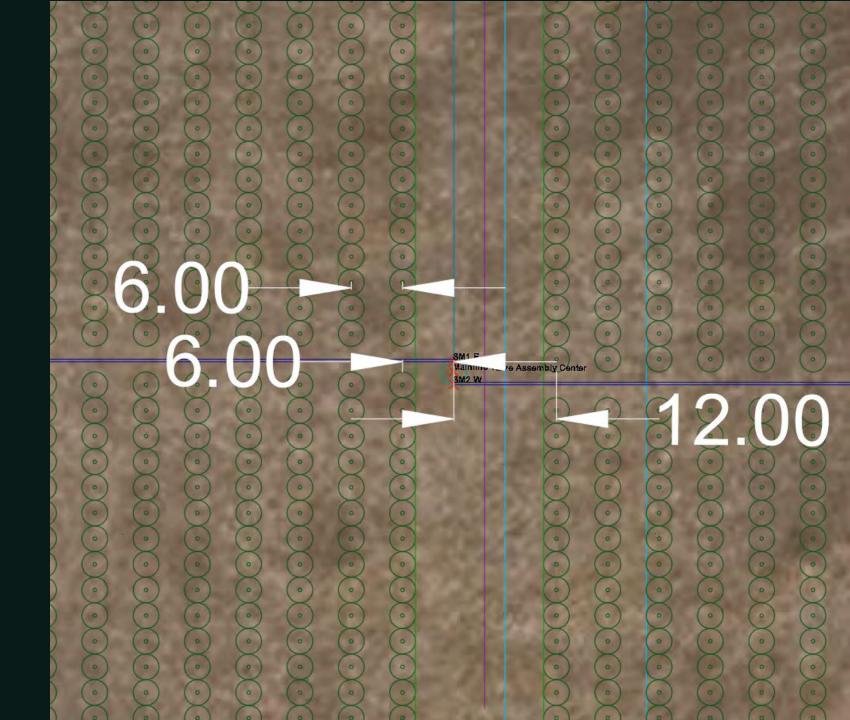
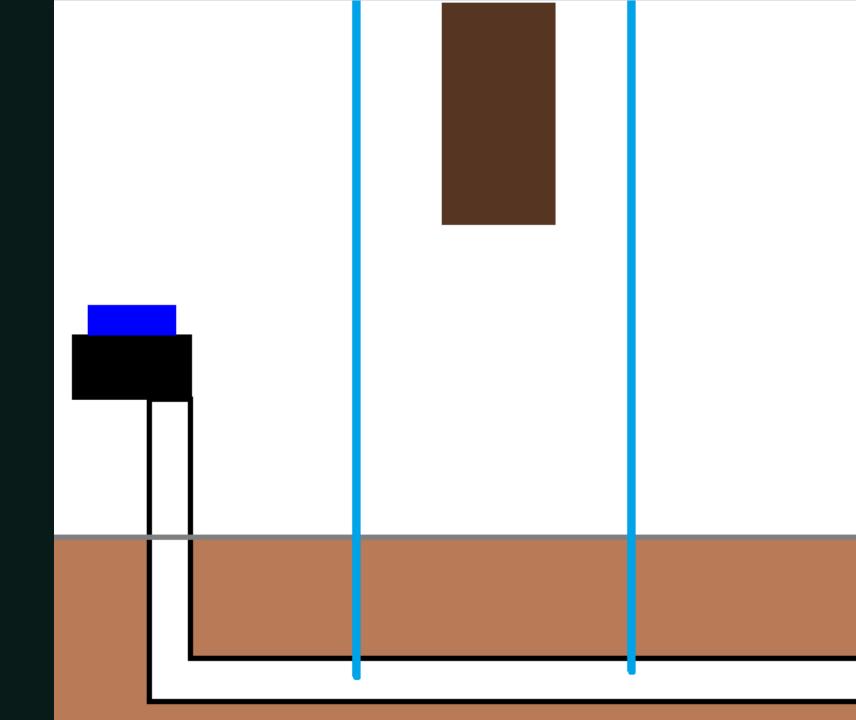
• Keep valves a multiple of the row spacing from the rows so slashing/spraying machinery fits past them.



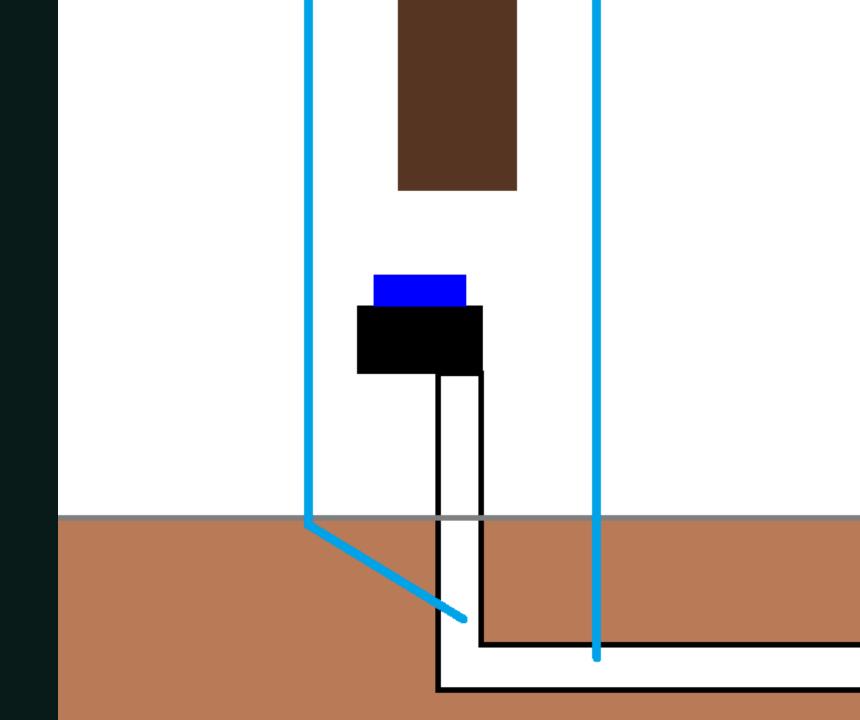
- Our water is salty, and poly taps don't rust.
- Kangaroos were opening the taps if their handles were left on, so we removed them.
- Make sure your taps are in line with the trees. They'll be snapped off by harvesters otherwise.
- The right-angle fitting makes it nicer to close under pressure.



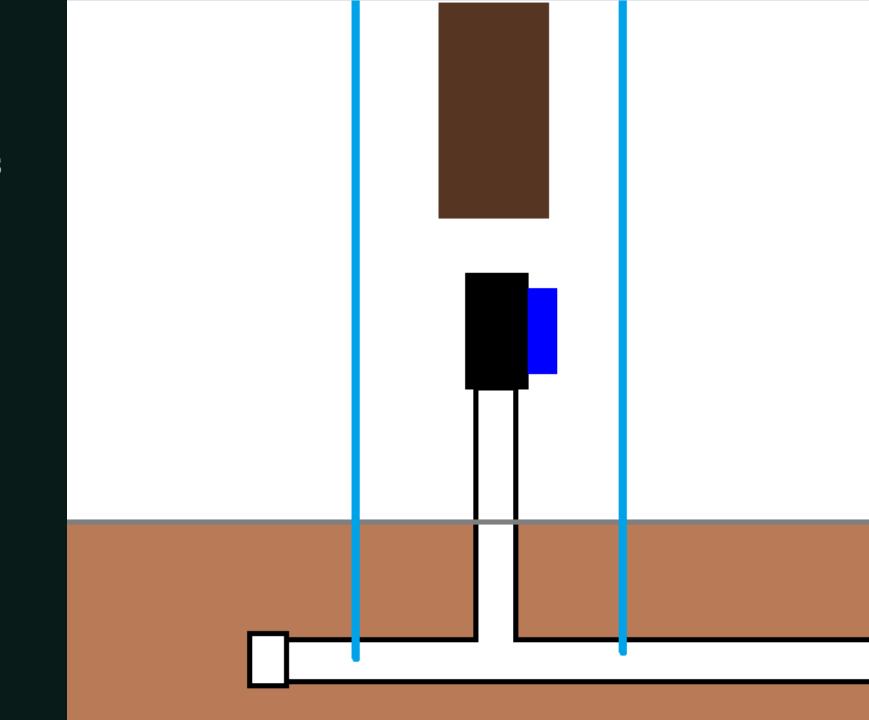
- Pay close attention to the irrigation design you are supplied.
- This is what we were supplied.



• This was a suggested solution.



• This is what we did.



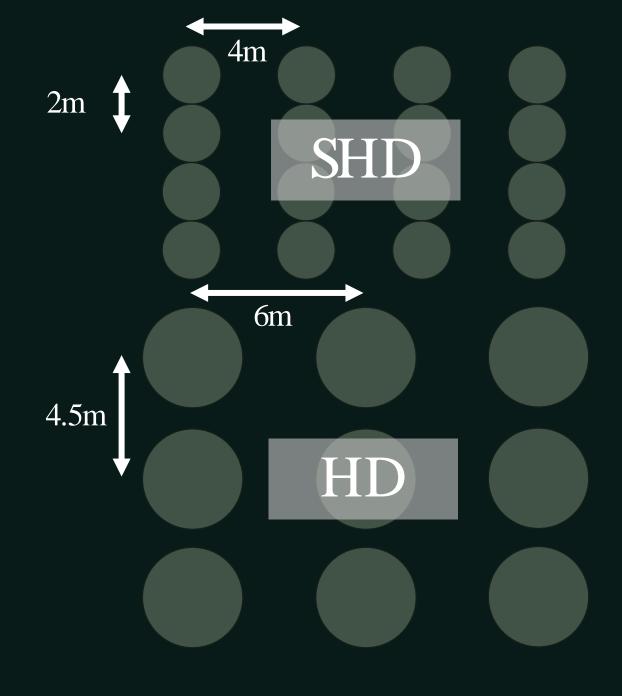
Low Irrigation Maintenance -Driplines

- Foxes will mince your driplines.
- Regular baiting does reduce the number of bites.



Low Irrigation Maintenance -Driplines

- Both our Super High Density
 (SHD) and High Density
 (HD) are irrigated on a
 single dripline.
- SHD was sized to irrigate with one dripline with higher flow.
- HD orchard would do better with two.
- Some varieties do better than others on one.







Low Irrigation Maintenance - Driplines



Low Irrigation Maintenance -Driplines

- Arbosana left
- Koreniki right

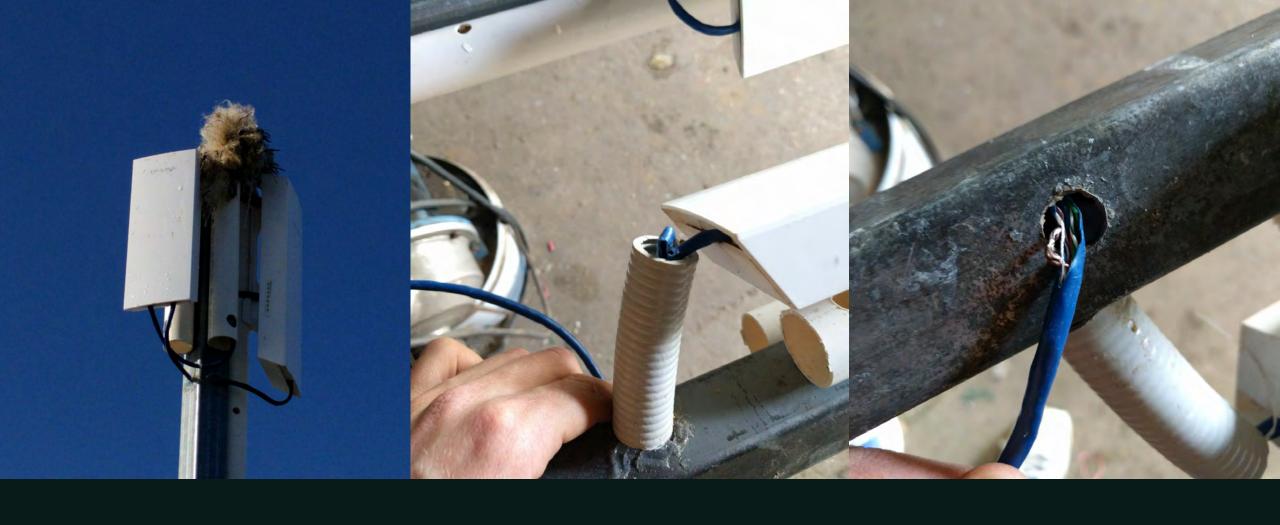


Low Irrigation Maintenance -Driplines

- Pick varieties that work well one dripline for SHD
- Use two driplines for larger tree sizes.



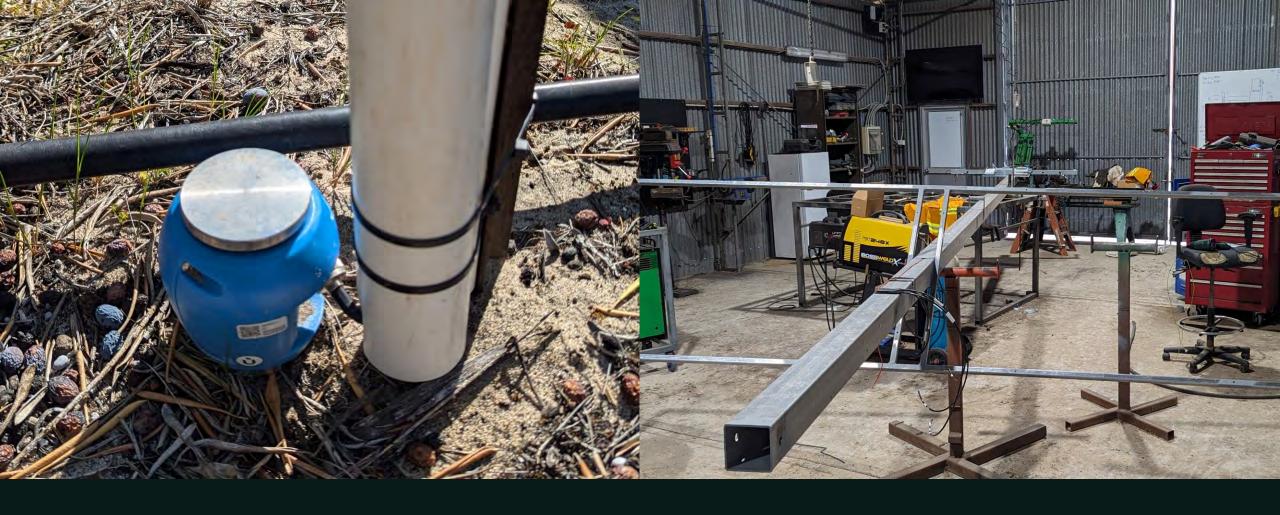






If a bird can perch next to a wire, it will chew that wire.







Run the wires inside antenna masts and leave minimal exposure. Use bird spikes in perching points.







If you bet on 1 in 1000, it will happen 80 times per pass at Longridge.

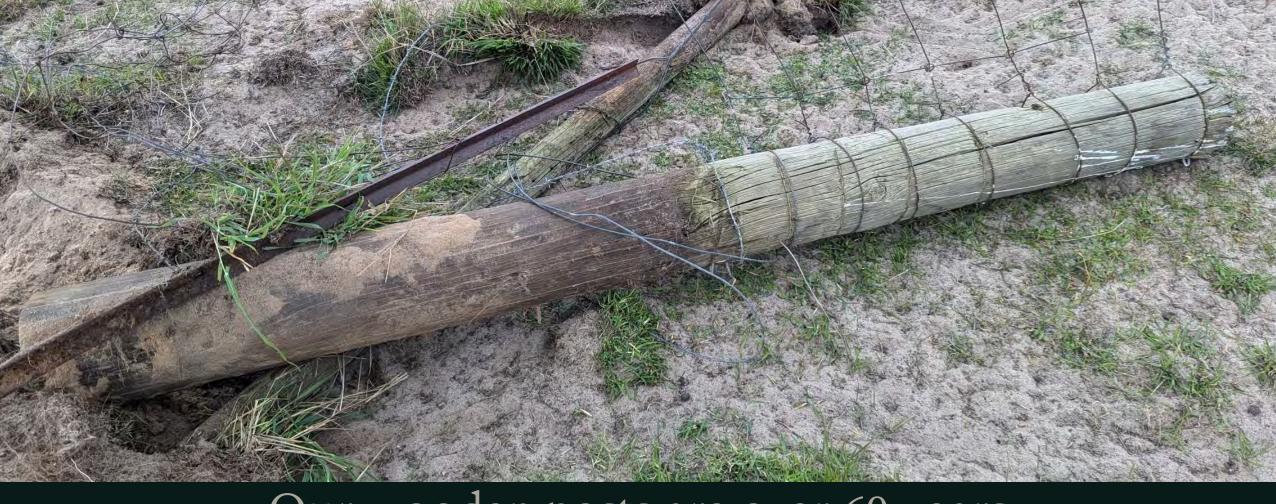






The orchard is rough on machinery. Tidy up loose and protruding features.





Our wooden posts are over 60 years old. All iron posts have rusted off. Talk to your neighbors about what works in your area



Using Labour



Planting may only take 1 to 3 weeks depending on your size.



Very intense labour requirement for a short period.



Where can you find the people? Where do you house them? How do you feed them?



Transportable buildings fore hire are very expensive for a short term.



Alternative Option

- Ripping the plants into the ground is very fast
- Three people on the ripper could plant 5000 or more trees per day comfortably. Limited here by preparation speed.
- Trees have their guards put on and are tied to the stakes in the shed.
- Tractor can autosteer a straight line
- Tree spacing is typically done with a wheel along the ground.
- GPS spacing may be possible for your unit but in the realm of \$20-\$30k.
- Not suitable for trellised trees.

I'd love to say it's a success...

- We haven't gotten to use it yet.
- Clay soils will need multiple passes ahead of time.
- A grader blade ahead of the press wheels would help keep dirt under them and add pressure. In our design, this takes pressure off the ripper tine.
- This tractor's 3PL has no downward pressure hence the trailer and weights.

 A bigger tractor with down pressure would be a better starting point for such a system.

General Planting Tips

 Plant deeper than recommended in sandy soils to avoid the potting mix from drying out.

General Planting Tips

• Ensure submain top hat holes are clean smooth and clean of burs.



Top Hats

- A small bur in the hole makes a bad seal.
- A small water jet picks up sand and cuts a bigger hole
- The sand jet can cut adjacent pipes.
- Sand is sucked back into the mainline after every shift.
- Shows up 5-10 years later.





Final Tips

- Aim to be profitable with the bulk price as it has been the last few years.
- Olives are much harder and slower to harvest than grapes.
- Plan to own your own harvesters and crushing mill (or co-op a crushing mill).
- Harvest time coincides with seeding time for broadacre farmers, so labour is short.
- Invest in monitoring technology as issues are generally fast to fix and slow to find.
- Use a reputable nursery for your tree supply to ensure a good rate of survival.



Thanks for listening!

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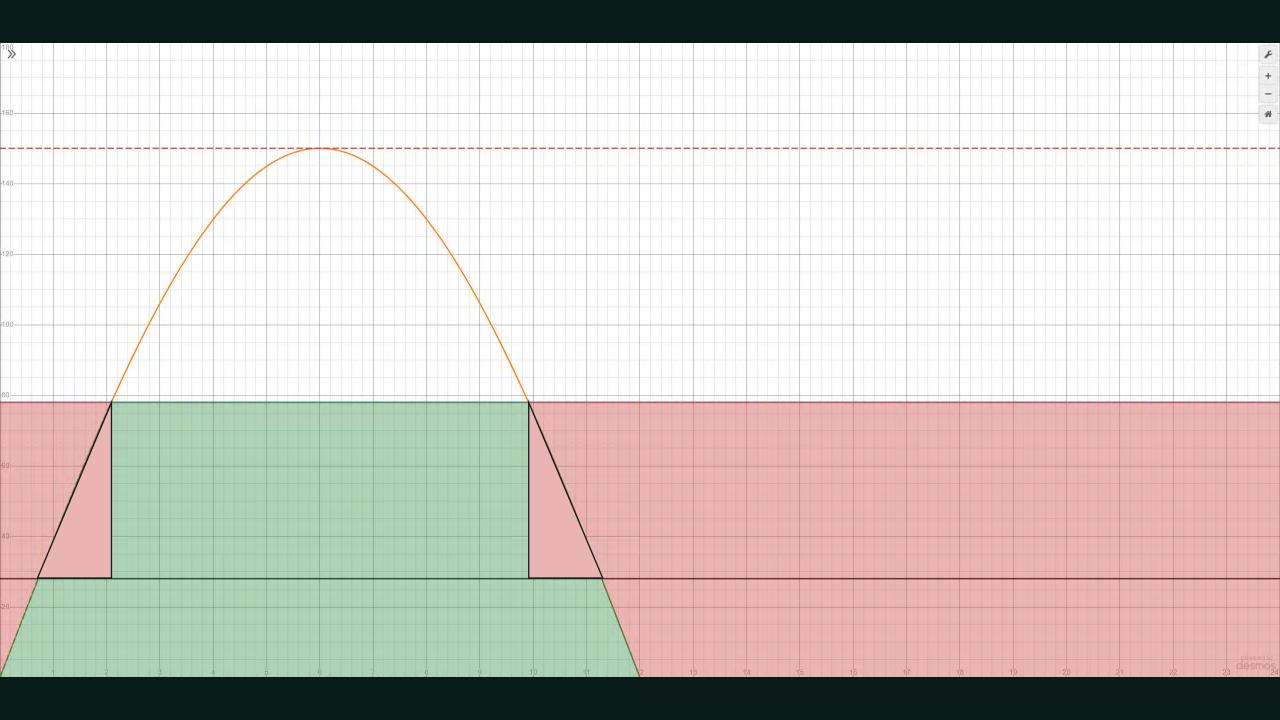
More?



Location – Solar Irrigation









Cost Comparison

Assuming

- 38c/ kwh
- \$1.20/ L Diesel (After rebate)

48H
Pumping at
Longridge

- \$1422 with Grid Power
- \$1500 with Diesel Power

No Line Fees with Generator Only