

ASI Update

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Today's Presentation

- ASI business position
- Selective breeding progress
- Commercial production
- Selective breeding R&D (CRCp)



ASI Business Position

- DAWR via FRDC grant secured in June
- \$984K = 18 months operating costs
- Prevented almost certain insolvency
- Maintaining conservative budget because there is still much uncertainty over future levy income
- As a result the levy remains unchanged
- Working with hatcheries for a better levy system.



POMS Field Trials; Georges River

Trial no.	Year class	Age	Start date	No. fam.	No. trays	No. oysters
1	2011	spat	11/04/2012	43	9	7,740
2	2011	juveniles	20/11/2012	43	12	10,320
3	2012	spat	21/03/2013	54	19	12,960
4	2012	juveniles	12/11/2013	54	19	12,960
5	2013	spat	20/04/2014	80	16	14,400
6	2013	juveniles	4/11/2014	80	30	14,400
7	2014	juveniles	8/10/2015	64	13	7,680



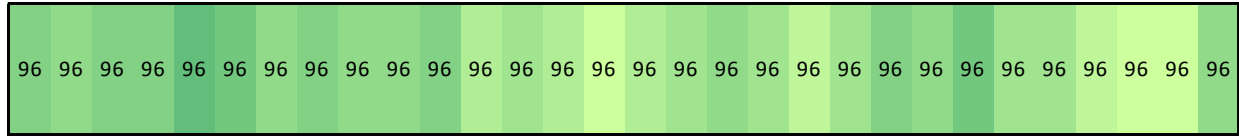
POMS Field Trials; Tasmania

Trial no.	Year class	Age	Measurement Date	No. fam.	No. baskets	No. oysters
1	2013 PC	adults	19/02/2016	77	196	14,400
2	2014 PC	juveniles	15/02/2016	71	?	28,145
3	2014 PW	juveniles	29/03/2016	76	216	18,507

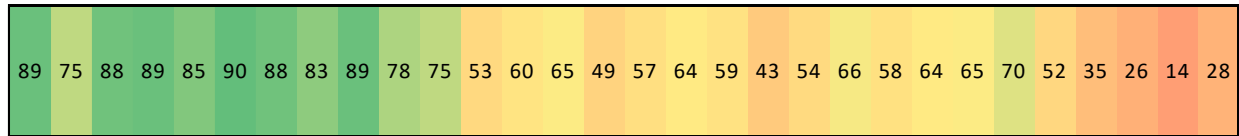


2013 YC trial – age 12 months

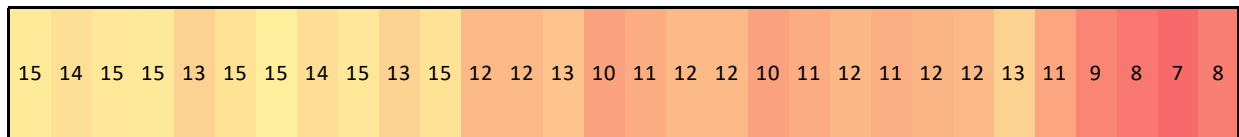
7 DAYS 96%



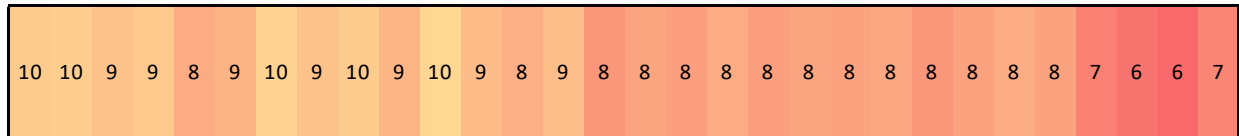
14 DAYS 64%



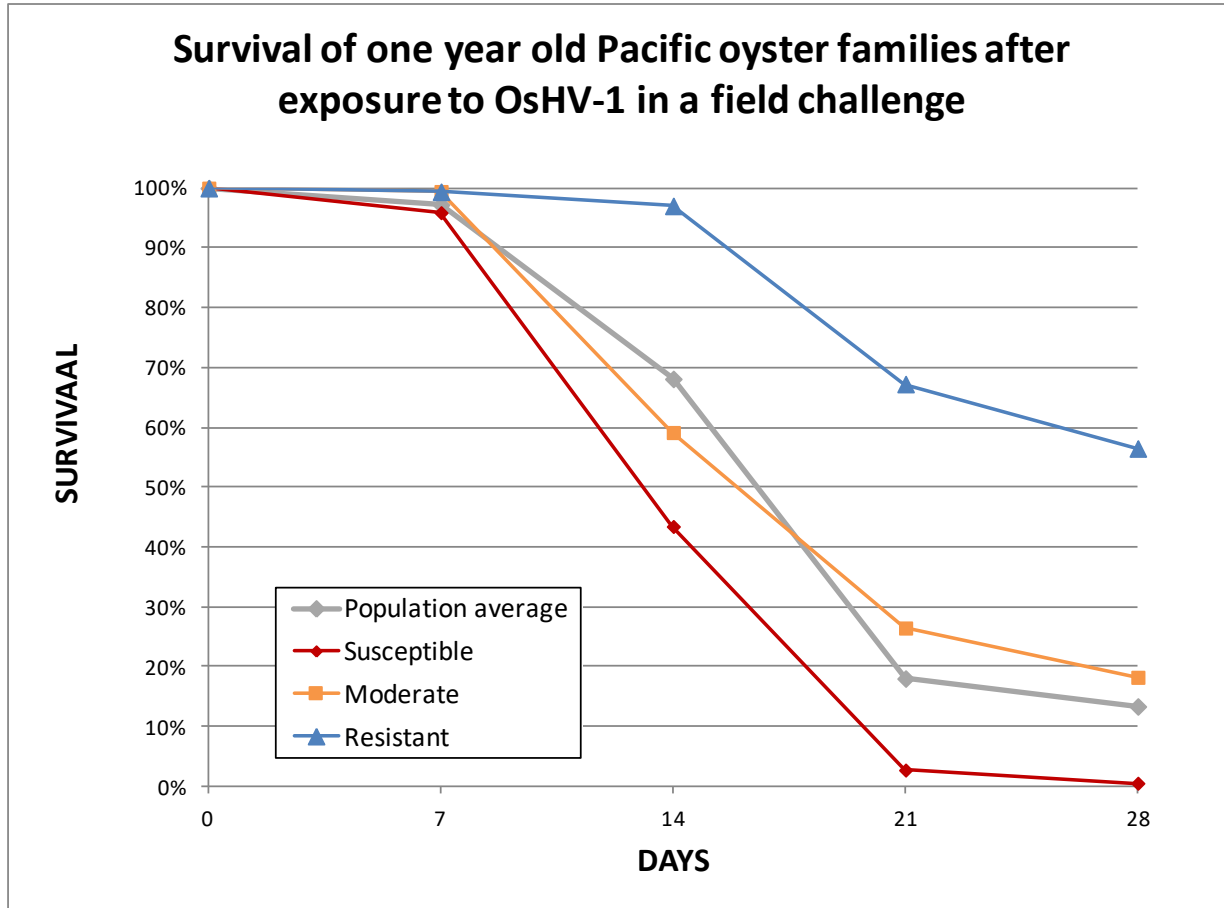
21 DAYS 18%



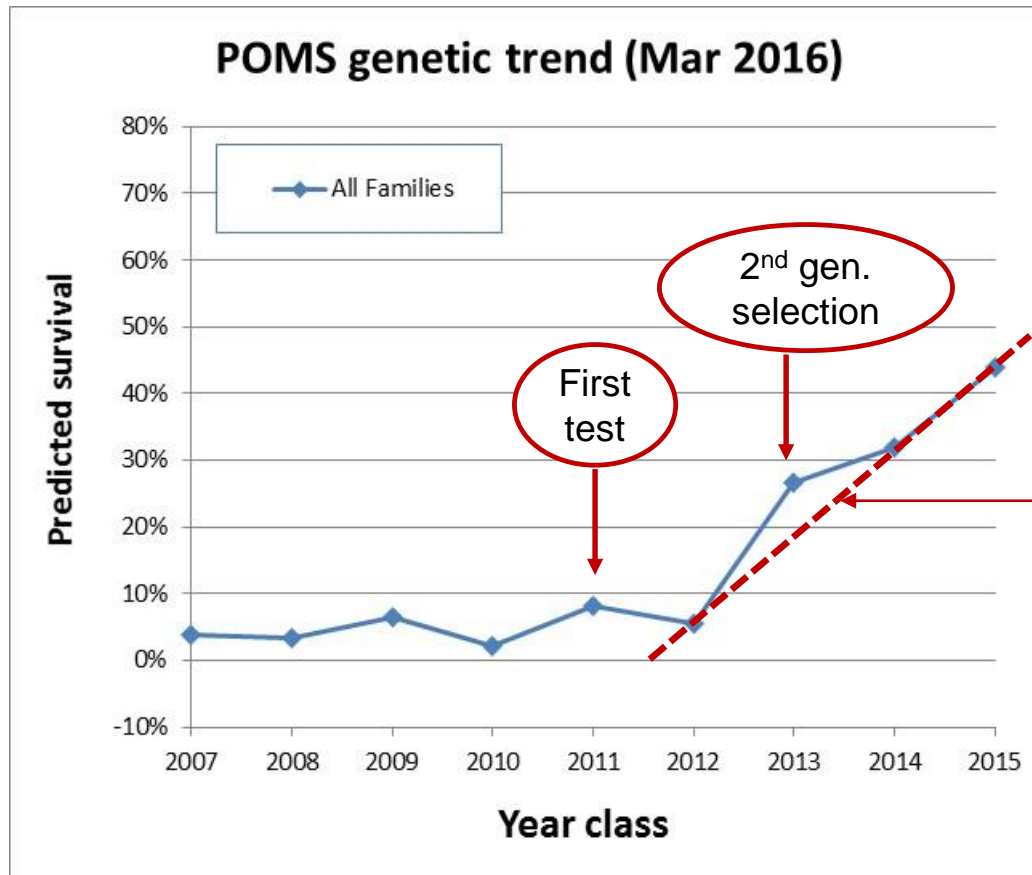
28 DAYS 12%



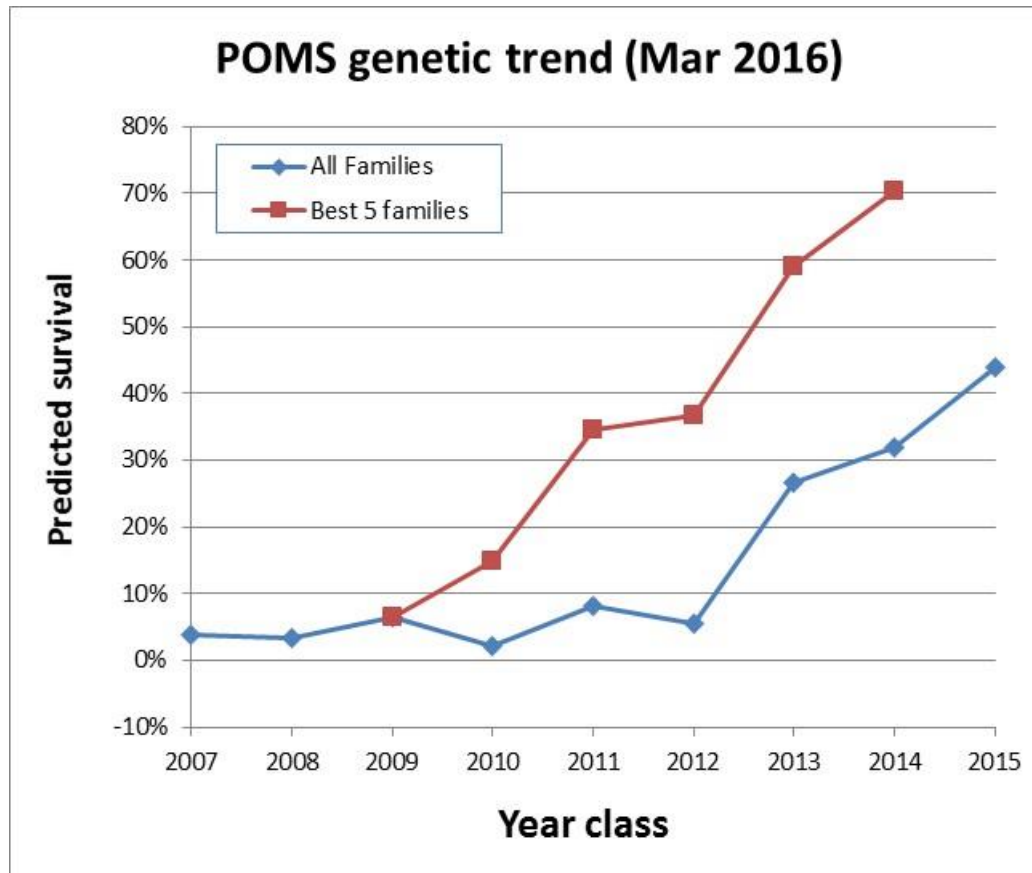
Disease progression in a field challenge



Genetic trend POMS



Genetic trend POMS



Breeding from POMS survivors (2013 YC)

FAMILY	RANK	FAMILY EBV	SURVIVOR EBV
2013031	1	57%	57%
2013007	6	46%	48%
2013052	10	35%	40%
2013013	20	33%	36%
2013022	40	22%	27%

AVERAGE SURVIVAL (Pipeclay Lagoon): 70%

- Extra gain in families (top 40% families) = 3% per year
- Extra gain in commercial (top 5 families) = 1%



Breeding from POMS survivors (2014 YC)

FAMILY	RANK	FAMILY EBV	SURVIVOR EBV
2014075	1	85%	87%
2014010	6	44%	55%
2014071	10	41%	53%
2014007	20	28%	41%
2014066	40	23%	37%

AVERAGE SURVIVAL (Pipeclay Lagoon): 26%

- Extra gain in families (top 40% families) = 9% per year
- Extra gain in commercial (top 5 families) = 6% per year



Commercial predictions

- Range of families used
- Most resistant lines now ready to breed
- YC13 x YC14 elites ~70% predicted survival
- YC14 x YC14 elites ~80% predicted survival
- Prediction is for **1 year old oysters**
- YC15's challenged this summer
- YC16's produced in the coming months and challenged this summer as young spat



Future Oysters CRC - P

- CRC-P bid successful
- ASI lead participant but OA effectively in the lead
- Approx 5 million cash + 5 million in-kind over 3 years
- More diverse research than just selective breeding for PO's
- The success of both applications has a lot to do with industry being proactive in implementing ASI levy
- Well done



PO breeding project

- Ensures flow of benefits to all states
- Producing clean spat from infected broodstock (Tas)
- Improved lab challenge tests
- More accurate predictions of spat performance
- Accelerated genetic gains
- Genetic identification test





A final point

There are some things that genetics just can't explain.....



