



Polyculture: maximising the water space to increase value and sustainability
Meeting Notes

Date:	Friday 1 st December 2017
Time:	8.00am to 12.45pm
Venue:	Havelock Bowling Club
Attendees	Gerald Hope , Norman Ragg , Brendon Burns , Glenn Farrington , Debbie Stone ,Jono Large , Zane Charman , Mark Gillard , Graeme Clarke , Matthew Black , Frank Burns , Granville Dunstan , Charmaine Gallagher , Jacqui Day , Sue Marshall , Serean Adams , Lesley Bolton-Ritchie , Rob Davidson , Micky Norton , Ben Robertson , Lynette Oldham , Bruce Cardwell , Graeme Taylor , Colin Johnston , John Patterson , Andy Elliot , Andrew Forsyth , Leo Zamora , Carrie England , Lindsey White , Caroline Trembath , Rob MacLean , Ally Hossain , Justin Hough , Glen Taylor , Gemma McCowan , Vaughan Warburton , Hans Neilson , Niall Broekhuizen & Jeffery Ren

Notes

Item
Welcome and overview of the day - Brendon Burns & Rob MacLean
Introductions - around the room
Speakers Session – Brief overview of “What we already know about Polyculture”
Speaker 1 – NIWA - Andrew Forsythe “Polyculture: Green-wash or good business for NZ aquaculture?”

Speaker 2 - Cawthron - Leo Zamora

“Growing more than one species in a farm”

Speaker 3 - Plant and Food - Jacqui Day

“Undaria – Delivery of a raw material to support the growth of a new industry”

Speaker 4 – AUT - Lindsay White

“Farming *Undaria pinnatifida*”

King Salmon - Vision and Market Opportunity – Jemma McCowan

“Marlborough Polyculture – Why?”

Q & A session

There was a wide-ranging discussion relating to the pro and cons of polyfarming and the potential species that may be able to be polyfarmed

Outline of Workshop - Rob MacLean

Why Polyculture?

Rob asked the participants to provide their key topics in relation to “why”. These are outlined below;

1. Protecting/Increasing Value of Investment – Increase Profit
 - Maximise value of consented areas
 - Return on av. Capital employed
 - Income consistency – even out peaks and troughs
2. Leadership / Innovation / Exploration
3. Enhancement / continuous improvement
4. Remediate Impacts of other sector impacts (e.g. forestry, agriculture)
5. Buffering/risk mitigation (economic)
 - Future proof against environmental changes
 - Future proof against economic/market fluctuations
6. Social Licence / International & Domestic Reputation / Brand
 - Increases credibility
 - Relationships
 - Transparency
7. Kaitiakitanga / Stewardship
8. Creating opportunity – jobs, research etc
9. Grow food

What polyculture configurations are most interesting – what are the main barriers to each of these?

There was show of hands as to the favoring topics. The top three were items 1, 2 and 3 (underlined below)

The next question was “how”. These are outlined below

1. Salmon & Mussels
 - a. Barriers: Regulation, lack of strategic planning between sectors, lack of research and evidence, biosecurity and perception risks
2. Blue and Green Mussel (i.e. taking advantage of existing polyculture on mussel farms)
 - a. Barriers: Developing value proposition and market opportunities around all ready existing polyculture on mussel lines
3. Mussels & Undaria (algae)
 - a. Barriers: Lack of knowledge, process, marketing & quality
4. Trout & Mussels
 - a. Barriers: Fish & Game, approval, marketing
5. Landbased aquaculture
 - a. Barriers: Technical and R&D, RMA, regulatory, social license, capital investment
6. Mussels & Mussels (B&G) – Existing aquaculture
 - a. Barriers: finding customers, consistency of supply, capital investment

The participants broke in to the groups above and were asked to identify the top three barriers preventing value from this combination. These are listed above.

Which polyculture projects should be a priority?

The parties brainstormed again and were asked to identify the ‘easy win’ in which poly-farming is possible. These are listed below along with those who were interested in further involvement:

Topic	Who	Past lessons
Mussels and undaria: Product cascade from undaria:	Jacqui Day, Zane Charman, Jono Large, Granville Dunstan, Lynette Oldham, Rob Davidson, Frank Burns, Serean Adams, Andy Elliot, Lyndsay White <i>(People interested in Undaria Farming specifically include:</i> Glenn Farrington, Jono Large, Charmaine Gallagher, Granville Dunstan, Lynette Oldham, Rob Davidson, Serean Adams, Andy Elliot, Sue Marshall, Norman Ragg, Jeffrey Ren, Ben	<ul style="list-style-type: none"> ○ We all have agenda, this is OK but share them ○ Make a commercial plan for collaboration at outset ○ Be careful of pre-conceptions

	Robertson)	
Land based aquaculture: Develop a land based aquaculture proposal for bivalves and finfish	Norman Ragg, Caroline Trembath, Andrew Forsythe, Ben Robertson, Glen Taylor, Justin Hough	
Salmon and mussel polyculture: Create working group to analyse benefits / evidence for Salmon + Mussel polyculture	Andy Elliot, Lesley Bolton-Ritchie, Jeffrey Ren, Serean Adams, Niall Broekhuizen, Mark Gillard, Ally Hossain, Colin Johnston, Jemma McCowan, Justin Hough, Glen Taylor, Ben Robertson, Lynette Oldham, Frank Burns	
Existing mussel polyculture: Develop story of the mussel reef as a marketing proposition	Lynette Oldham, Andy Elliot, Norman Ragg, Lesley Bolton-Ritchie, Jeffrey Ren, Serean Adams, Jono Large, Niall Broekhuizen, Leo Zamora	
Rainbow trout and mussels: Lobby new government for permit to do a trout farming trial	Graeme Taylor, Graeme Clarke, Mark Gillard, Justin Hough, Jeffrey Ren, Bruce Cardwell	

Other topics of interest that individuals were interested in pursuing:

Geoducks: Leo Zamora, Sue Marshall, Charmaine Gallagher, Norman Ragg, Lynette Oldham, Frank Burns, Glen Taylor, Justin Hough, Serean Adams, Mick Norton, Rob Davidson

Sea Cucumber: Leo Zamora, Sue Marshall, Lynette Oldham, Frank Burns, Glen Taylor, Justin Hough, Serean Adams, Mick Norton, Rob Davidson, Jeffrey Ren, Caroline Trembath, Glenn Farrington

Close

Brendon Burns gave an overview his process of getting a story to media

John Patterson gave an overview of where we go from here:

- Information from the meeting will be taken back to the Smart and Connected Value and Innovation group for further discussion and development of next steps.