Mainstream Aquaculture

Australian Barramundi: Sustainable Premium White Fish to Feed the World

www.mainstreamaquaculture.com

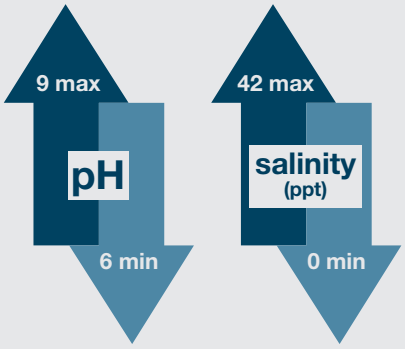
reliable fish

Barramundi are one of the most reliable fish available, easily adaptable to aquaculture conditions. [11]

- Are an efficient converter of food.
- Thrive in a range of environments.
- Feed well on pelleted diets.
- Are fast growing, reaching harvestable size within 6 to 24 months (350g to 3kg).

reliable fish

Barramundi are able to thrive in a broad spectrum of physical conditions.



mainstream aquaculture: a world leader

- sustainability
- control
- water conservation
- efficiency

sustainability

Recirculating aquaculture is sustainable aquaculture.

Mainstream Aquaculture does not discharge any waste directly into the environment. Waste water is currently used to grow algae for human consumption and for water remediation activities. Waste materials are used to produce garden fertilizer.

control

The system used by Mainstream Aquaculture provides an unparalleled level of control, eliminating or minimising the risk of exposure to:

DISEASE

It is estimated that the annual worldwide loss due to disease alone is over US$9 billion. [21]

In cage and pond aquaculture, between 30 and 50% of stock is estimated to be lost to disease prior to reaching market size.[21]

PREDATORS

A single breach of a sea cage by a shark can cause the loss of millions of dollars worth of stock, while pond and raceway farmers lose millions worth of stock every year due to predation by birds.[26]

NATURAL POLLUTANTS

Algal blooms are common in most forms of aquaculture (non existent in recirculating systems) and can decimate entire production systems.

INDUSTRIAL POLLUTANTS

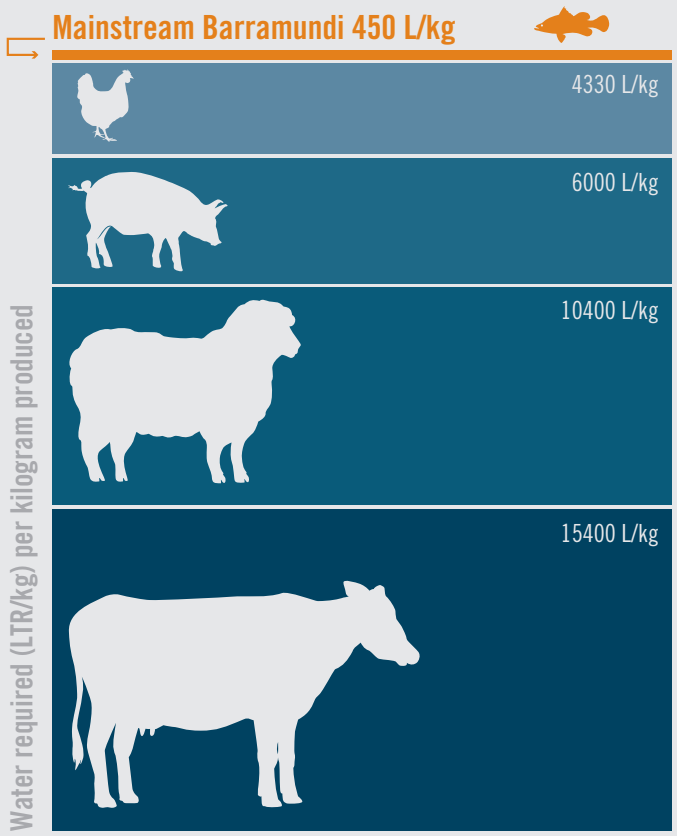
Agricultural run off presents particular issues for pond systems and most sea cages.

EXTREME WEATHER EVENTS

Cyclones, storms, temperature fluctuations and floods cause large losses in aquaculture and present no risk to a well designed recirculating system.

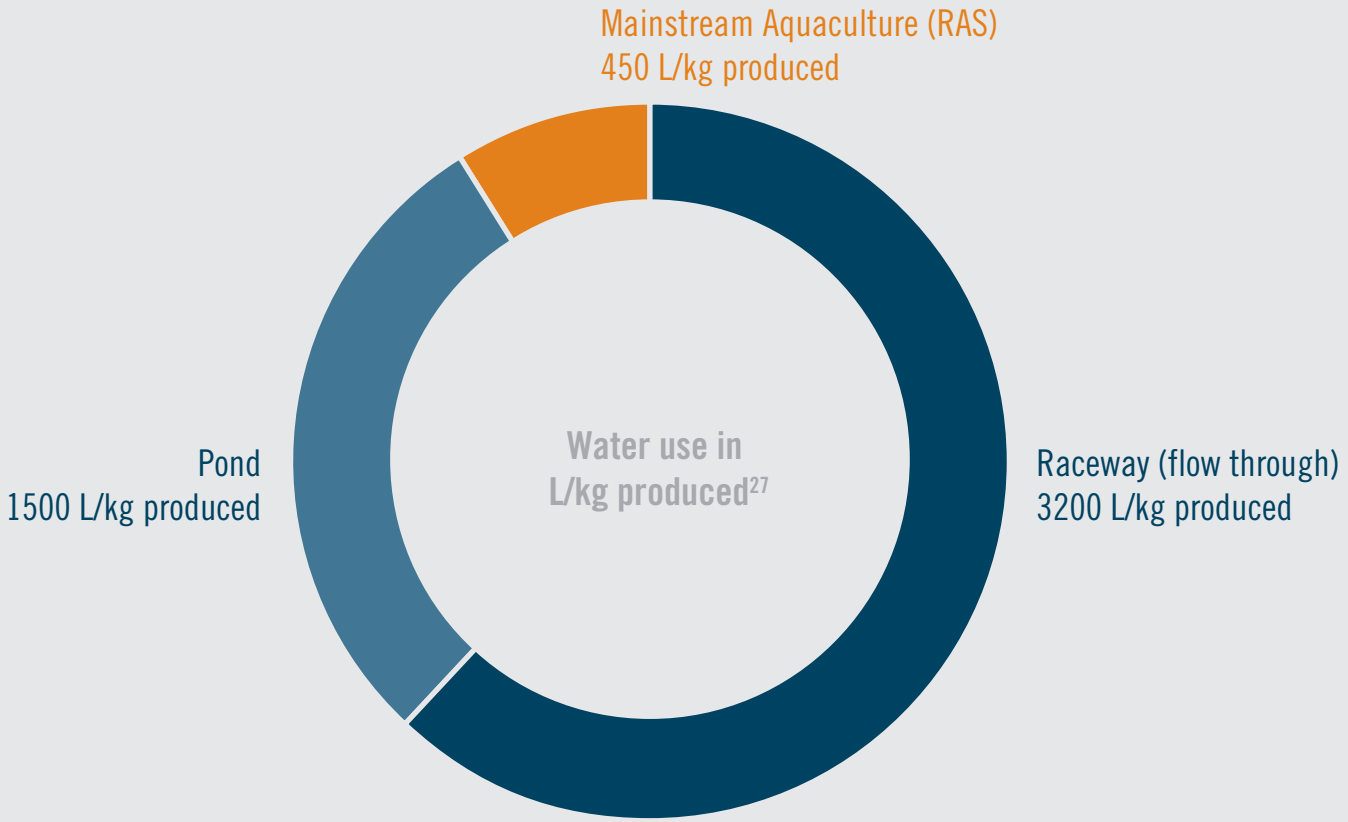
conservation

Recirculating aquaculture uses significantly less water per kilogram of output relative to all the major meat production industries.



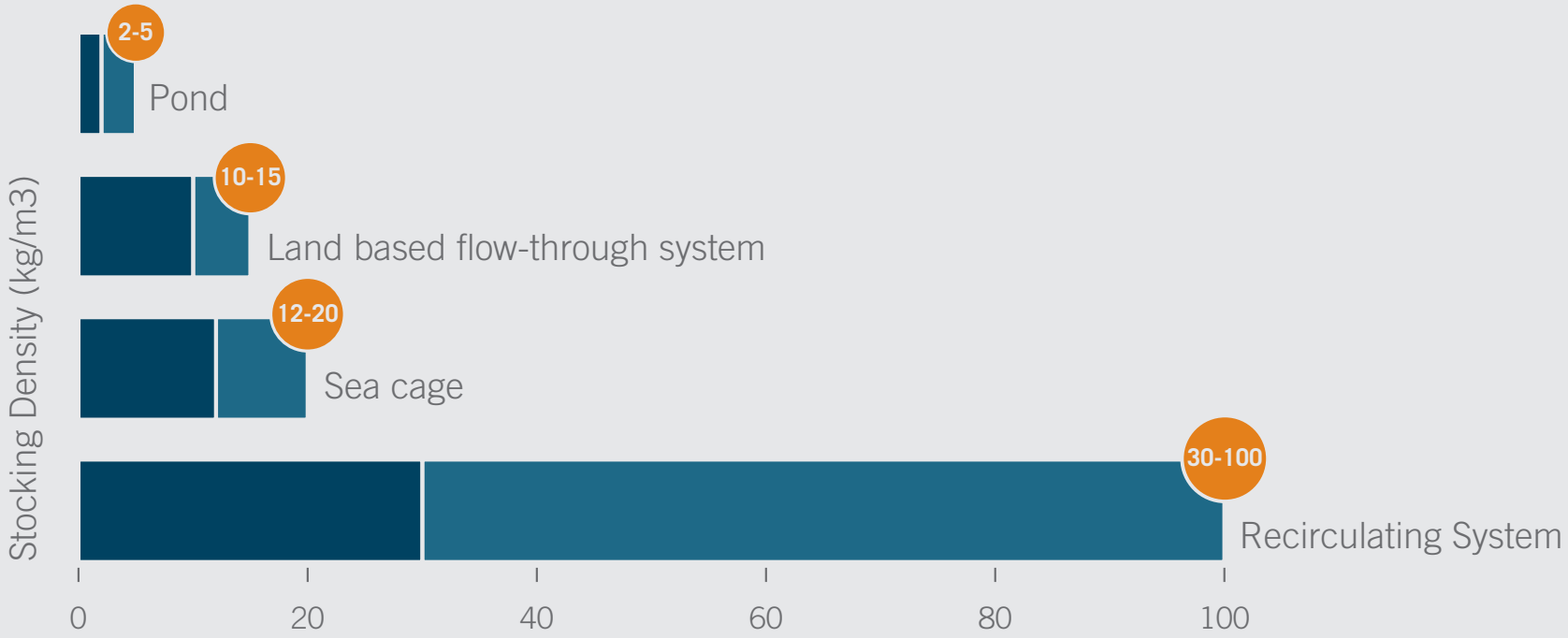
conservation

Mainstream uses significantly less water than conventional aquaculture systems.



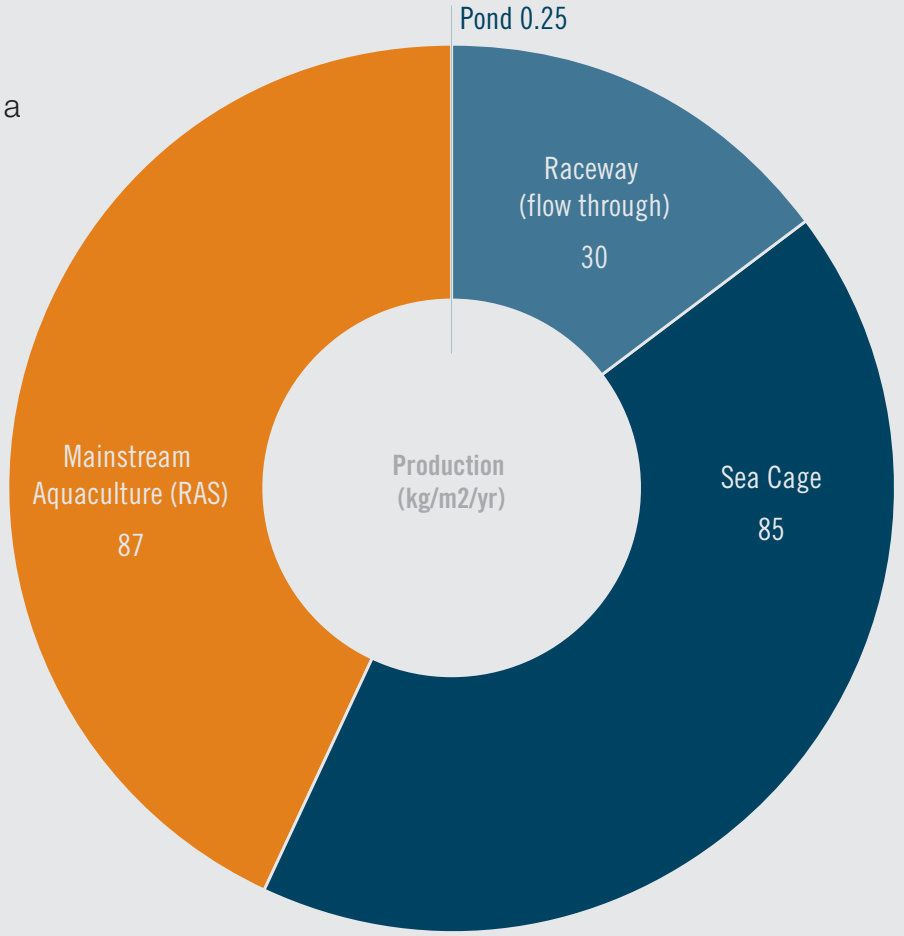
efficiency

Recirculating technology uses space extremely efficiently.[22]



efficiency

Mainstreams recirculating aquaculture system can produce a significant volume of fish on a limited land footprint. [22]



efficiency

With a footprint of just 6,500m2, Mainstream is one of Australia's largest Barramundi table fish producers.

efficiency

Mainstream's recirculating aquaculture technology provides a secure, environmentally sustainable, and efficient production system.

	SEA CAGE	POND	LAND BASED FLOW-THROUGH SYSTEM	RECIRCULATING AQUACULTURE SYSTEM
Ability to position close to market	Sometimes	No	Sometimes	Yes
Ability to control water quality	No	Limited	Limited	Yes
Level of biosecurity	Low	Medium	Medium	High
Temperature control	Low	Low	Low	High
Operating cost	Medium	Low	Medium	High
Stocking density	Medium	Low	Medium	High
Water requirements	Natural water body	High	High	Low
Area requirements	Low	High	Medium	Low
Environmental impact	High	Medium	Medium	Low