

Indonesia Shrimp Farming

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Indonesia Production



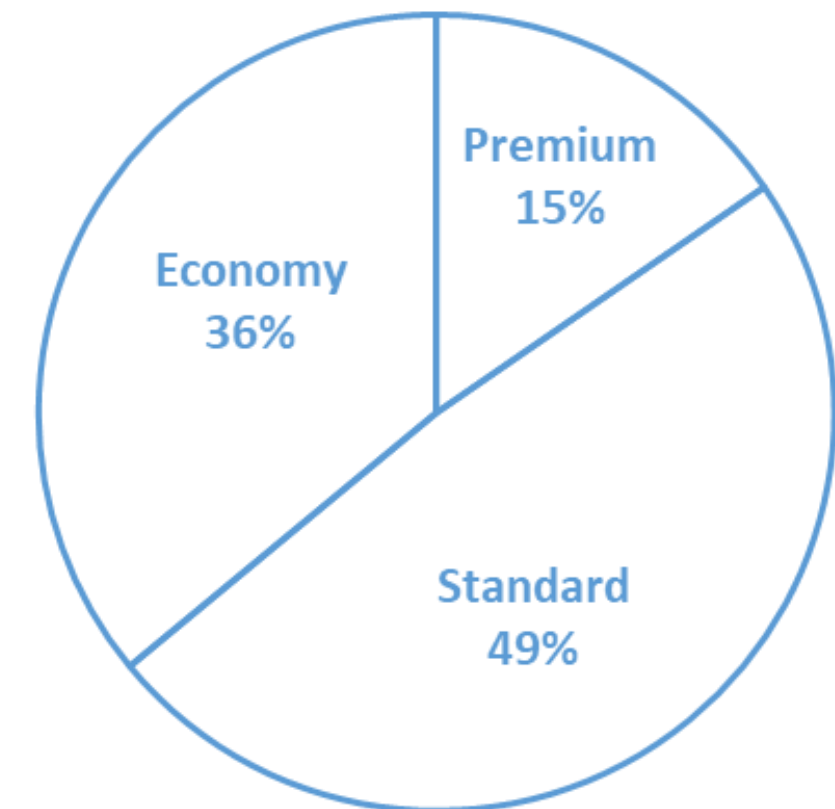
PLs (Million)
26.000



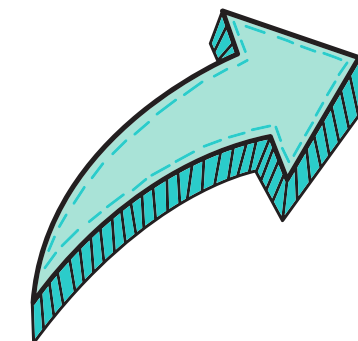
Shrimp (Ton)
292.500



Feed (Ton)
391.000



[Premium] CP : > 35%
[Standard] CP : 30 ~ 35%
[Economy] CP : < 30%



Indonesia Culture

System	Density (Pl/m ³)	Productivity (Ton/Ha)	Key Points
Extensive	5 – 20	1 – 4	min. Aeration, No partial harvest
Semi- Intensive	20 – 50	5 – 10	Biosecurity, aeration, feed & water management, 2-3x partial harvest
Intensive	75 – 150	15 – 40	Biosecurity, Advance aeration, Advance feed, auto feeder, water management, 3-5x partial harvest





Biosecurity

a proactive defense strategy designed to prevent the introduction, establishment, and spread of diseases and pathogens



- Calcium Hypochlorite [$\text{Ca}(\text{ClO})_2$]
- TCCA [$\text{C}_3\text{Cl}_3\text{N}_3\text{O}_3$]
- etc

- Ozon : 1 ORP 650 – 750 mV
- UV-C : 900 mWs/cm²
- etc

- Crab fence
- Bird nett
- etc



Partial Harvest

Selectively removes a portion of the population at certain stage of growth, reducing the density and preventing overcrowding

How It works?

1

Manage stocking density & carrying capacity



2

Enhance growth rate & improve water Quality



3

Mitigate disease risk & mass mortality



4

Maximize total productivity and profitability.





Partial Harvest Indicator

DO
level

< 4 ppm

Bio-
mass

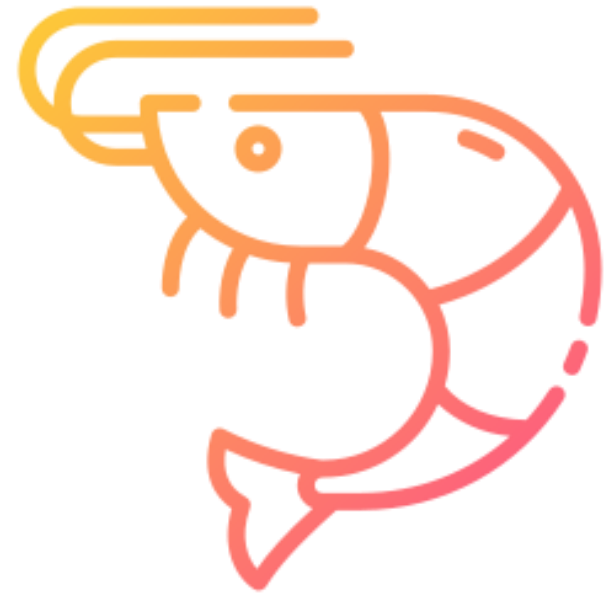
300-400 Kg/Hp
13-17 Ton/Ha

Shrimp

Growth slows down
commercial size



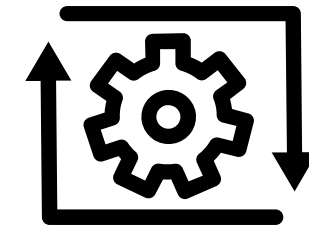
Harvest Strategy



Performed in the morning



Multiple casting location



Smooth & Fast Process



Apply Bioscurity & post partial treatment



Data Summary

- Stocking Density : 120 Pls/m3
- Water Level : 120 cm
- Pond size (average) : 2,270 m2
- Aeration : 16 HP

Ratio TP/CP		Volume
TREATMENT POND		9,300
CULTURE POND		32,679
RATIO		28%

Pond ID	Pond Size (sqm)	Water Level (cm)	Water Volume (M³)	PWA (HP)	Total PL stocked (PLs)	Density (PL/sqm)	PWA/PLs Ratio
B1	2.125	120	2.550	11	255.000	120	23.182
B2	2.125	120	2.550	11	255.000	120	23.182
B3	2.444	120	2.933	12	293.250	120	24.438
B4	2.656	120	3.188	13	318.750	120	24.519
B5	1.721	120	2.066	9	206.550	120	22.950
B6	2.066	120	2.479	10	247.860	120	24.786
B7	2.142	120	2.570	11	257.040	120	23.367
B8	2.639	120	3.167	13	316.710	120	24.362
B9	2.394	120	2.873	12	287.334	120	23.944
B10	2.377	120	2.852	12	285.192	120	23.766
B11	2.180	120	2.616	11	261.630	120	23.785
B12	2.363	120	2.836	12	283.560	120	23.630
Total	27.232	-	32.679	137	3.267.876	-	23.853

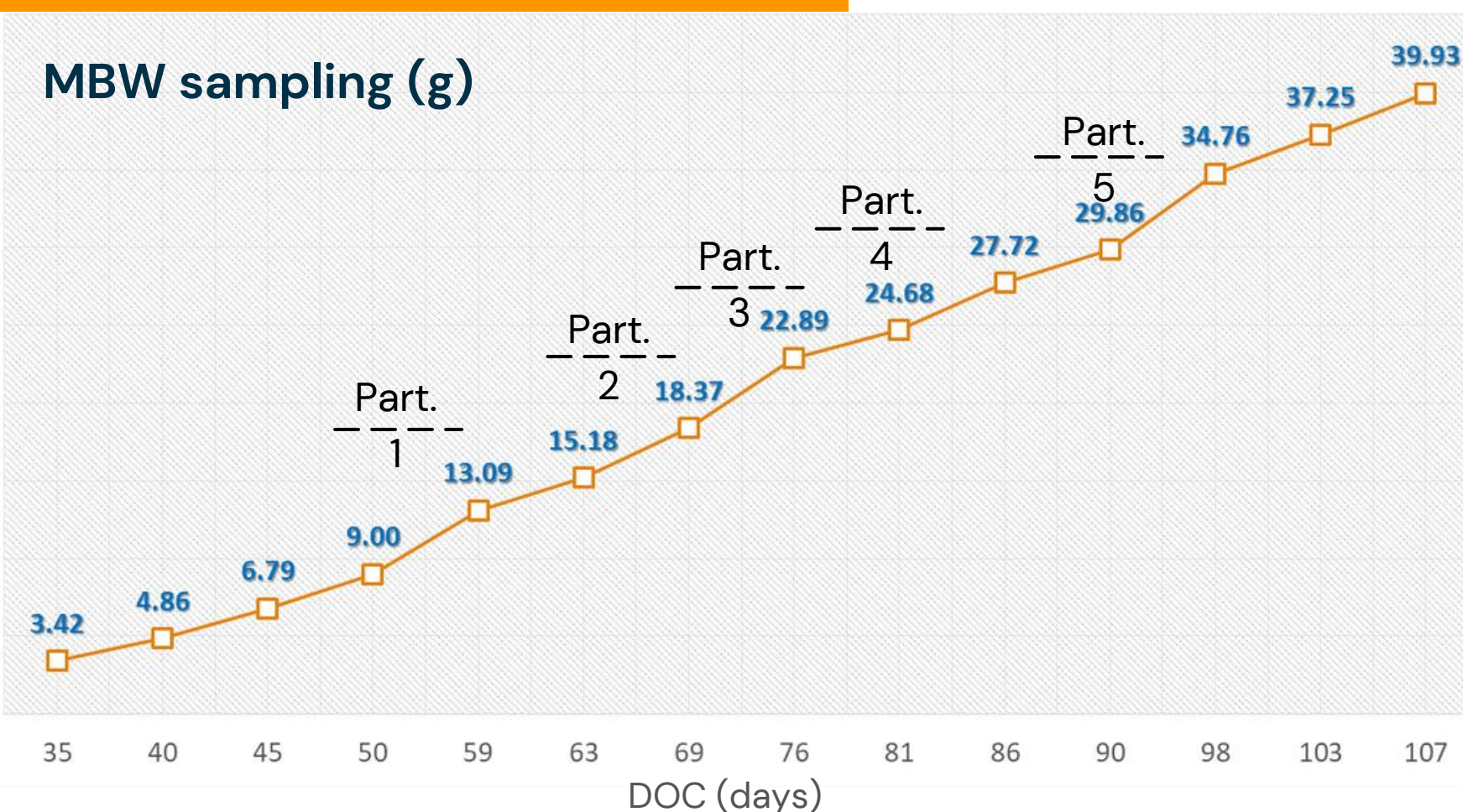
Harvest Data	Partial 1	Partial 2	Partial 3	Final	Total
DOC (day)	60	80	100	115	115
ABW (g)	10.5	15.1	20.1	25.1	20.4
Size (pcs/Kg)	95	66	50	40	49
Biomass (Kg)	6,863	7,599	7,882	36,911	59,254
FCR	1.10	1.25	1.35	1.40	1.40
% SR	100	77	60	45	92
Productivity	12,600	13,952	14,472	13,554	21,759



Data Summary

- Pond size : 2,389 m2
- Density : 278 Pls/m3
- FCR : 1.55
- Productivity : 63 MT/Ha

Details	Part. 1	Part. 2	Part.3	Part.4	Part.5	Total
DOC (day)	54	64	72	81	94	109
ABW (g)	10.8	15.7	20.0	24.7	31.1	39.4
Size (pcs/Kg)	93	64	50	41	32	25
Biomass (Kg)	8,820	13,178	13,112	13,356	29,878	119,160
Population	817,969	841,809	659,202	542,337	957,007	4,994,955
% population	16	16	13	10	18	95



Pond ID	Pond Size (sqm)	Total PL stocked (PLs)	Density (PL/sqm)
P1	3.008	805.089	273
P2	2.097	574.597	276
P3	2.386	655.823	277
P4	1.444	408.294	293
P5	2.400	670.304	278
P6	2.135	536.640	277
P7	2.744	676.745	278
P8	2.900	667.462	276
Total	19.114	5.304.304	-

By reducing competition for resources, partial harvests help shrimp grow faster and more uniformly

Thank you

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