



TEST RESULT - RUMINANT

5. FEEDLOT CATTLE

AVERAGE BODY WEIGHT

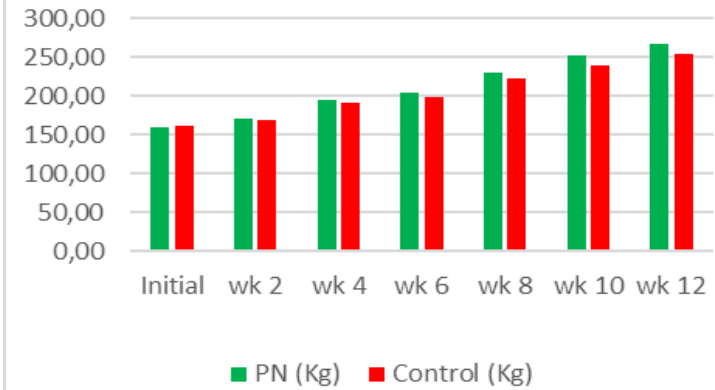
TREATMENT	Initial	wk 2	wk 4	wk 6	wk 8	wk 10	wk 12
PN (Kg)	160,20	170,80	195,00	204,20	230,40	251,60	268,00
Control (Kg)	161,00	169,20	191,40	199,20	222,40	240,20	255,00

Location: Subang, West Java

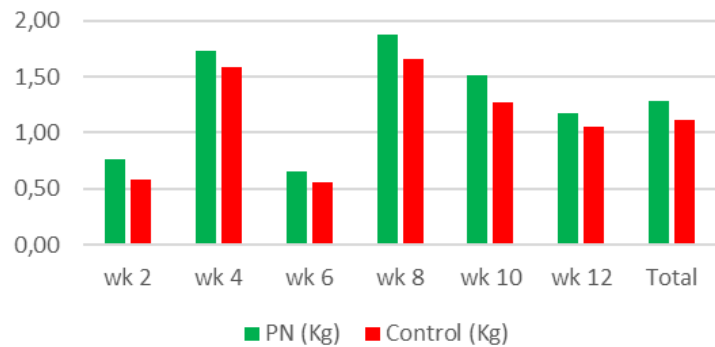
AVERAGE DAILY GAIN (ADG)

TREATMENT	wk 2	wk 4	wk 6	wk 8	wk 10	wk 12	Total
PN (Kg)	0,76	1,73	0,66	1,87	1,51	1,17	1,28
Control (Kg)	0,59	1,59	0,56	1,66	1,27	1,06	1,12

Average Body Weight (Kg/Head)



Average Daily Gain (Kg)



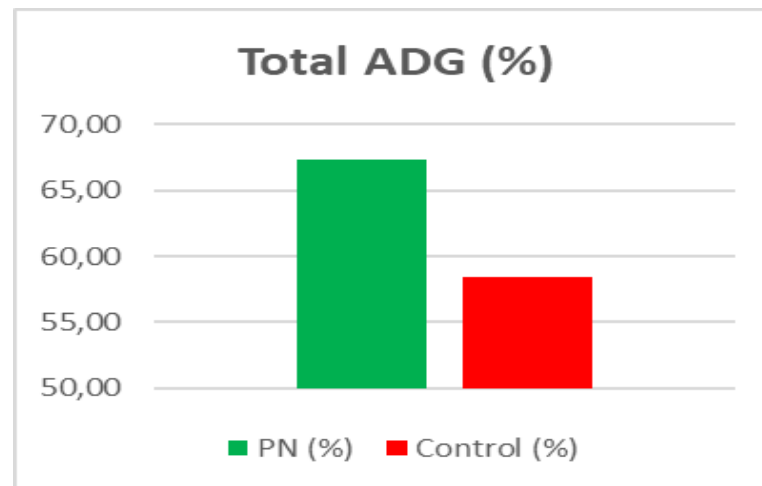
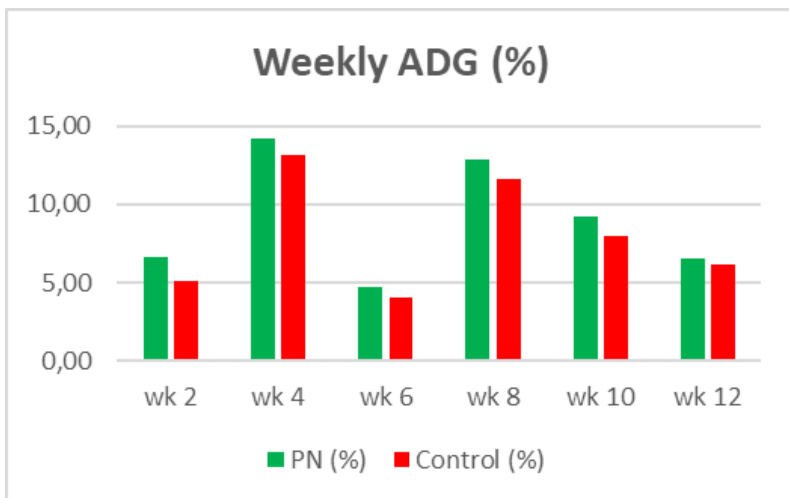


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5. FEEDLOT CATTLE

ADG PERCENTAGE

TREATMENT	wk 2	wk 4	wk 6	wk 8	wk 10	wk 12	Total
PN (%)	6,62	14,17	4,72	12,83	9,20	6,52	67,29
Control (%)	5,09	13,12	4,08	11,65	8,00	6,16	58,39





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6. DAIRY

1. INCREASING MILK PRODUCTION

No	Ear Tag No	Lactation Stage	Owner	Treatment	Total (Head)	Initial Production		Production during treatment		Increasing	
						Averg Volum/day (Lt)	Averg Vol/head/day (Lt)	Averg Volum/day (Lt)	Averg Vol/head/day (Lt)	Averg Vol/head/day (Lt)	Averg Vol/head/day (%)
1	7140	2	Pulis	PN	4	17	12,25	21,86	15,64	3,39	28%
2	10156		Toni			11		12,03			
3	9591		Yoyo			12		16,6			
4	61003		Memem			9		12,06			
5	9844		Oman	Control	2	16	13,5	19,92	14,85	1,35	10%
6	8589		Yoyo			11		9,78			

2. WITHSTAND DECREASING PRODUCTION RATE

No	Ear Tag No	Lactation Stage	Owner	Treatment	Qty (Head)	Initial Production		Production during treatment		Decreasing	
						Averg Vol/day (Lt)	Averg Vol/Head/day (Lt)	Averg Vol/day (Lt)	Averg Vol/Head/day (Lt)	Averg Vol/Head/day (Lt)	Averg Vol/Head/day (%)
1	6939	1	Toni	PN	4	15	15	12,38	13,37	-1,63	-11%
2	9791		Oman			15		14,63			
3	10154					15		12,32			
4	8942		Caca			15		14,16			
5	8944		Entis	Control	3	15	15	13,51	12,92	-2,08	-14%
6	10037		Oman			18		15,11			
7	6994		Aso			12		10,14			



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6. DAIRY

3. QUALITY RATE of MILK

Category	Lactation Stage	Treatment	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Average	Difference PN - Control)
FAT	1	PN	3,94	3,7	3,88	3,97	4,45	4,42	3,81	4,04	0,47
		Control	3,49	3,4	3,7	3,58	4,18	3,48	3,15	3,57	
	2	PN	3,93	4,09	3,61	3,8	3,69	2,9	3,75	3,68	0,1
		Control	3,26	3,31	3,4	3,61	4,39	3,79	3,28	3,58	
PROTEIN	1	PN	2,58	2,65	2,62	2,55	2,53	3,08	2,62	2,66	0,24
		Control	2,32	2,2	2,37	2,51	2,54	2,54	2,5	2,43	
	2	PN	2,52	2,58	2,47	2,48	2,49	2,42	2,42	2,48	-0,01
		Control	2,43	2,52	2,51	2,52	2,55	2,46	2,47	2,49	
SPECIFIC GRAVITY	1	PN	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	0,0008
		Control	1,02	1,02	1,021	1,022	1,023	1,022	1,022	1,021	
	2	PN	1,021	1,021	1,021	1,021	1,021	1,021	1,02	1,021	-0,0001
		Control	1,021	1,022	1,021	1,021	1,021	1,021	1,021	1,021	
DENSITY	1	PN	11,34	11,2	11,22	11,45	11,9	12,05	11,38	11,51	0,82
		Control	10,26	10,25	10,8	10,91	11,63	10,74	10,18	10,68	
	2	PN	11,31	11,39	10,84	11,05	10,98	11,05	10,76	11,05	0,22
		Control	10,33	10,53	10,82	10,87	11,85	11,03	10,43	10,84	



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7. GOAT

No	PRECURSOR NUTRIENT				CONTROL			
	Initial Weight (Kg)	Harvest Weight (Kg)	Gain (Kg)	ADG (Kg/head/day)	Initial Weight (Kg)	Harvest Weight (Kg)	Gain (Kg)	ADG (Kg/head/day)
1	26	30	4	0,13	15	18	3	0,1
2	16	20	4	0,13	16	20	4	0.13
3	24	30	6	0,20	24	25	1	0,03
4	24	27	3	0,10	20	20	0	0.00
5	21	25	4	0,13	18	20	2	0,07
6	10	12	2	0,07	14	16	2	0,07
7	15	17	2	0,07	16	20	4	0,13
8	10	13	3	0,10	16	20	4	0,13
9	14	17	3	0,10	17	20	3	0,1
10	24	28	4	0,13	21	25	4	0,13
Average of ADG			3,5	0,12			2,7	0,10
Difference of PN - Control			0,8	0,02				

Note. Location: Karawang



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SUMMARY TRIAL LIVESTOCK

1. By Precursor Nutrients (PN), average daily gain (ADG) ruminant higher than Control, the difference is 0,16 kg/head/day on feedlot cattle and 0,8 Kg/head/day on goat
2. In dairy cattle, increasing production milk average 28% with PN, while in controls average 10%, the difference is 18%.
3. Beside of increasing production, using of PN is able to prevent decreasing milk production, especially during the dry season where green grass availability is more difficult (unstable feed).
4. The quality of milk production, especially fat content and density, is higher on cattle using PN.