TETRA
SELECTED FOR QUALITY

TETRA COUNTRY
LAYER PARENT STOCK CHARTS AND GRAPHS

Performance Specifications of TETRA COUNTRY Parent Stock

Liveability	
0-20 weeks of age	96-98%
21-72 weeks of age	90-96%
Feed consumption	
0-20 weeks of age	7.5-8.1 kg
21-72 weeks of age	41.7-45.1 kg
Body weight	
Females at 20 weeks of age	1.5-1.7 kg
Males at 20 weeks of age	2.1-2.3 kg
Females at 72 weeks of age	1.9-2.1 kg
Males at 72 weeks of age	2.9-3.1 kg
Maturity	
Age at 50% production	21-22 weeks
Peak production	26-33 weeks
Egg production per hen housed	
Until 72 weeks of age	288-300 pcs
Hatching egg production per hen housed	
Until 72 weeks of age	263-273 pcs
Hatchability (average)	81-84%
Saleable chicks per hen housed	
Until 72 weeks of age	105-109 pcs

Space and Equipment Requirements for TETRA COUNTRY Parent Stock

Age (weeks)		0-6	7-17	over 17
Density (bird/m^2)	Floor system	20-24	10-12	7
	Aviary system	26-28	26-28	14-16
	Cage system	80-50	40-25	10-13
Drinking space	Birds/nipple	10-12	8	4-6
	Birds/drinker (ø 46 cm)	100-130		
Feeding space	Through or circular feeder (space/bird)	4 cm plus extra feeding surface in the first 4 days	7 cm	10 cm

** Place chick-paper alongside the drinkers' lines or cover the cage floor and strew feed on it in a thin layer. Check the availability of feed and water.*

Temperature Requirements for TETRA COUNTRY Parent Stock

Age (days)	Temperature (°C) at Chicks' Level
0-2	34-35
3-4	32-33
5-7	32
8-14	30
15-21	27
22-28	24
29-35	22
35-	18-20

Lighting Programme for TETRA COUNTRY Parent Stock

Age (weeks)	Hours of Light	Light intensity (lux)
0-2 days	23	20-30
1	22	20-30
2	16	10 (-20)
3	15	5 (-10)
4	14	5 (-10)
5	13	5 (-10)
6	12	5 (-10)
7	11	5 (-10)
8	10	5 (-10)
9	10	5 (-10)
10	10	5 (-10)
11	10	5 (-10)
12	10	5 (-10)
13	10	5 (-10)
14	10	5 (-10)
15	10	5 (-10)
16	10	5 (-10)
17	10	5 (-10)
18	11	10 (-20)
19	12	10 (-20)
20	13	10 (-20)
21	14	10 (-20)
22	14	10 (-20)
23	14	10 (-20)
24	14	10 (-20)
25-throughout production	14 (-16)	10 (-20)

Weight Development and Feed Intake of TETRA COUNTRY Parent Stock

Age (weeks)	Parent Stock - FEMALES		Parent Stock - MALES		Feed Consumption		Feed Type
	Body Weight (g)		Body Weight (g)				
	Average	Range	Average	Range	Average (g/day)	Cumulative (kg)	
1	70	67-73	70	67-73	12	0.1	Starter I
2	125	120-130	140	134-146	20	0.2	
3	190	182-198	230	221-239	25	0.4	
4	265	254-276	330	317-343	30	0.6	Starter II
5	335	322-348	450	432-468	35	0.9	
6	415	398-432	570	547-593	40	1.1	
7	505	485-525	695	667-723	44	1.5	
8	595	571-619	815	782-848	48	1.8	
9	685	658-712	935	898-972	52	2.2	Grower
10	780	749-811	1055	1013-1097	56	2.5	
11	870	835-905	1175	1128-1222	60	3.0	
12	960	922-998	1295	1243-1347	64	3.4	
13	1050	1008-1092	1405	1349-1461	68	3.9	
14	1130	1085-1175	1525	1464-1586	71	4.4	
15	1210	1162-1258	1645	1579-1711	74	4.9	
16	1295	1243-1347	1765	1694-1836	78	5.4	
17	1375	1320-1430	1890	1814-1966	81	6.0	
18	1455	1397-1513	2000	1920-2080	84	6.6	Pre-layer upto 5% prod.
19	1535	1474-1596	2110	2026-2194	87	7.2	
20	1595	1531-1659	2210	2122-2298	91	7.8	
21	1655	1589-1721	2300	2208-2392	96	0.7	Breeder I from 5% prod.
22	1705	1637-1773	2380	2285-2475	101	1.4	
23	1755	1685-1825	2460	2362-2558	106	2.1	
24	1810	1738-1882	2545	2443-2647	111	2.9	
25	1855	1781-1929	2615	2510-2720	113	3.7	
30	1895	1819-1971	2695	2587-2803	114	7.7	
35	1925	1848-2002	2765	2654-2876	114	11.7	
40	1950	1872-2028	2830	2717-2943	114	15.7	
45	1960	1882-2038	2885	2770-3000	114	19.7	
50	1980	1901-2059	2930	2813-3047	113	23.6	Breeder II below 80% prod.
55	1990	1910-2070	2955	2837-3073	113	27.6	
60	2000	1920-2080	2980	2861-3099	113	31.5	
65	2010	1930-2090	2995	2875-3115	113	35.5	
70	2020	1939-2101	3010	2890-3130	113	39.4	
72	2020	1939-2101	3015	2894-3136	113	43.4	

** Always check average body weight of the flock before switching to the next feed type. If body weight is lower than stated, do not move on from one diet to another. Control the body weight frequently, until birds reach their target weight. Feed amount must be adjusted to production intensity and uniformity. Check body weight weekly around peak production, increase daily feed amount as production intensity rises.*

Nutritional Recommendation for TETRA COUNTRY Parent Stock (Growing Period)

Feed Type		Starter I	Starter II	Grower	Pre-layer
Age (weeks)		**1-3**	**4-8**	**9-17**	**18-20**
ENERGY & NUTRIENT					
Met. energy	MJ/kg	12.40	12.00	11.50	11.70
Met. energy	kcal/kg	2950	2870	2750	2800
Crude protein	%	20.00	18.00	15.50	17.50
AMINO ACIDS, TOTAL					
Lysine	%	1.20	1.00	0.75	0.85
Methionine	%	0.48	0.42	0.35	0.40
Methionine + cysteine	%	0.84	0.74	0.61	0.70
Threonine	%	0.75	0.65	0.50	0.60
Valine	%	0.87	0.75	0.60	0.65
Arginine	%	1.22	0.90	0.77	0.82
Tryptophan	%	0.24	0.20	0.17	0.18
Isoleucine	%	0.83	0.66	0.58	0.66
AMINO ACIDS, DIGESTIBLE					
Lysine	%	1.00	0.82	0.60	0.70
Methionine	%	0.40	0.35	0.30	0.35
Methionine + cysteine	%	0.70	0.60	0.50	0.58
Threonine	%	0.63	0.55	0.42	0.50
Valine	%	0.76	0.65	0.50	0.54
Arginine	%	1.02	0.84	0.63	0.68
Tryptophan	%	0.20	0.18	0.14	0.15
Isoleucine	%	0.69	0.62	0.49	0.52
Linoleic acid	%	1.50	1.25	1.00	1.50
Calcium	%	1.00	1.00	1.00	2.50
Phosphorus, available	%	0.48	0.44	0.38	0.44
Sodium	%	0.16-0.18	0.16-0.17	0.16-0.17	0.16-0.17
Chloride	%	0.15-0.30	0.15-0.30	0.15-0.30	0.15-0.30

Nutritional Recommendation for TETRA COUNTRY Parent Stock (Production Period)

Feed Type		Breeder I from 5% Production			Breeder II below 80% Production		
Daily feed consumption		**110 g**	**115 g**	**120 g**	**110 g**	**115 g**	**120 g**
ENERGY & NUTRIENT							
Met. energy	MJ/kg	11.70	11.50	11.25	11.60	11.40	11.20
Met. energy	kcal/kg	2800	2750	2700	2780	2720	2680
Crude protein	%	18.00	17.00	16.00	17.00	16.00	15.00
AMINO ACIDS, TOTAL							
Lysine	%	0.87	0.82	0.78	0.83	0.79	0.75
Methionine	%	0.43	0.41	0.39	0.42	0.39	0.37
Methionine + cysteine	%	0.75	0.71	0.68	0.74	0.70	0.66
Threonine	%	0.60	0.57	0.54	0.58	0.55	0.53
Valine	%	0.70	0.66	0.63	0.67	0.63	0.60
Arginine	%	0.88	0.83	0.79	0.84	0.79	0.75
Tryptophan	%	0.18	0.17	0.16	0.17	0.16	0.15
Isoleucine	%	0.65	0.62	0.60	0.62	0.59	0.57
AMINO ACIDS, DIGESTIBLE							
Lysine	%	0.71	0.67	0.64	0.69	0.65	0.62
Methionine	%	0.38	0.36	0.34	0.36	0.34	0.32
Methionine + cysteine	%	0.62	0.59	0.56	0.61	0.58	0.55
Threonine	%	0.49	0.46	0.44	0.48	0.46	0.43
Valine	%	0.57	0.54	0.51	0.55	0.52	0.50
Arginine	%	0.72	0.68	0.64	0.68	0.64	0.61
Tryptophan	%	0.15	0.14	0.13	0.14	0.13	0.12
Isoleucine	%	0.54	0.51	0.49	0.51	0.48	0.47
Linoleic acid	%	1.90	1.80	1.70	1.80	1.70	1.60
Calcium	%	3.90	3.75	3.60	4,10	3.85	3.70
Phosphorus, available	%	0.42	0.39	0.37	0.40	0.38	0.36
Sodium	%	0.16-0.18	0.15-0.17	0.14-0.16	0.16-0.18	0.15-0.17	0.14-0.16
Chloride	%	0.15-0.30	0.15-0.30	0.15-0.30	0.15-0.30	0.15-0.40	0.15-0.50

** When changing rations production level is more important than the actual age of the flock. In the case of higher feed intake, a moderate-intensity diet is needed, while with lower feed consumption, the diet should be more concentrated.*

Vitamins and Micronutrient Recommendation for TETRA COUNTRY Parent Stock

FEED TYPE		Starter I-II	Grower	Pre-layer / Breeder I-II
ADDED VITAMINS				
Vitamin A	UI/kg	10000	10000	10000
Vitamin D_3	UI/kg	3200	3200	3200
Vitamin E	mg/kg	50	30	60
Vitamin K_3	mg/kg	3	2	5
Vitamin B_1	mg/kg	3	2	4
Vitamin B_2	mg/kg	8	6	10
Vitamin B_6	mg/kg	5	4	5
Vitamin B_{12}	mcg/kg	20	15	30
Pantothenic acid	mg/kg	12	8	15
Niacin	mg/kg	40	30	50
Biotin	mcg/kg	200	150	200
Folic acid	mg/kg	2	1	2
Choline	mg/kg	300	300	300
Vitamin C*	mg/kg	-	-	50-200
ADDED TRACE ELEMENTS				
Iron	mg/kg		50	
Manganese	mg/kg		100	
Copper	mg/kg		8	
Zinc	mg/kg		80	
Iodine	mg/kg		1	
Selenium	mg/kg		0.3	

** Vitamin C is recommended to prevent stress.*

Supply of Fine and Coarse Limestone for TETRA COUNTRY Parent Stock

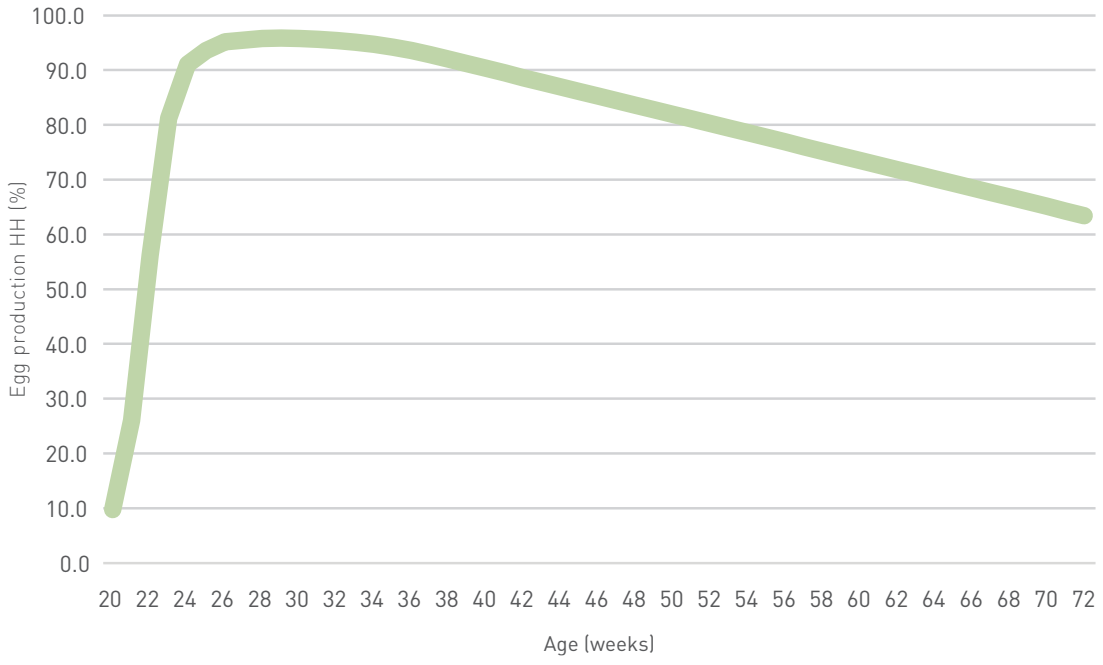
Limestone	Fine	Coarse
	(<0.5 mm)	(1.5-3.5 mm)
Breeder I	35%	65%
Breeder II	30%	70%

** Recommended ratio within diet.*

Production Targets for TETRA COUNTRY Parent Stock

Age (weeks)	Egg Production		Eggs		Hatching Eggs			Hatch		Day-old Females	
	Hen Housed	Hen Day	Weekly	Cumu-lative	Weekly		Cumu-lative	% of all chicks	% of saleable females	Weekly	Cumu-lative
	%	%	pcs	pcs	%	pcs	pcs			pcs	pcs
20	9.4	9.4	0.7	0.7							
21	25.7	25.7	1.8	2.5							
22	55.9	56.0	3.9	6.4							
23	80.9	81.3	5.7	12.0	30.0	1.7	1.7	76.0	36.5	0.6	0.6
24	90.8	91.4	6.4	18.4	61.0	3.9	5.6	78.0	37.4	1.5	2.1
25	93.3	94.0	6.5	24.9	83.0	5.4	11.0	80.0	38.4	2.1	4.2
26	94.9	95.8	6.6	31.6	87.0	5.8	16.8	82.0	39.4	2.3	6.4
27	95.1	96.2	6.7	38.2	93.0	6.2	23.0	84.0	40.3	2.5	8.9
28	95.4	96.7	6.7	44.9	94.0	6.3	29.2	86.0	41.3	2.6	11.5
29	95.5	96.9	6.7	51.6	95.0	6.4	35.6	86.0	41.3	2.6	14.1
30	95.4	97.0	6.7	58.3	96.0	6.4	42.0	87.0	41.8	2.7	16.8
31	95.3	97.1	6.7	64.9	96.0	6.4	48.4	88.0	42.2	2.7	19.5
32	95.1	97.0	6.7	71.6	96.0	6.4	54.8	88.0	42.2	2.7	22.2
33	94.8	96.8	6.6	78.2	96.0	6.4	61.2	88.0	42.2	2.7	24.9
34	94.4	96.6	6.6	84.8	96.0	6.3	67.5	88.0	42.2	2.7	27.6
35	93.9	96.2	6.6	91.4	97.0	6.4	73.9	88.0	42.2	2.7	30.3
36	93.2	95.7	6.5	97.9	97.0	6.3	80.2	88.0	42.2	2.7	33.0
37	92.5	95.1	6.5	104.4	97.0	6.3	86.5	88.0	42.2	2.7	35.6
38	91.7	94.4	6.4	110.8	97.0	6.2	92.7	88.0	42.2	2.6	38.2
39	90.8	93.7	6.4	117.2	97.0	6.2	98.9	88.0	42.2	2.6	40.8
40	90.0	93.0	6.3	123.5	97.0	6.1	105.0	88.0	42.2	2.6	43.4
41	89.1	92.2	6.2	129.7	97.0	6.1	111.1	88.0	42.2	2.6	46.0
42	88.3	91.5	6.2	135.9	97.0	6.0	117.1	88.0	42.2	2.5	48.5
43	87.5	90.8	6.1	142.0	97.0	5.9	123.0	88.0	42.2	2.5	51.0
44	86.6	90.1	6.1	148.1	97.0	5.9	128.9	88.0	42.2	2.5	53.5
45	85.8	89.4	6.0	154.1	97.0	5.8	134.7	88.0	42.2	2.5	56.0
46	84.9	88.6	5.9	160.0	97.0	5.8	140.5	87.0	41.8	2.4	58.4
47	84.1	87.9	5.9	165.9	96.0	5.7	146.1	86.0	41.3	2.3	60.7
48	83.3	87.2	5.8	171.8	96.0	5.6	151.7	86.0	41.3	2.3	63.0
49	82.4	86.4	5.8	177.5	96.0	5.5	157.3	85.0	40.8	2.3	65.3
50	81.6	85.7	5.7	183.2	96.0	5.5	162.7	85.0	40.8	2.2	67.5
51	80.7	85.0	5.7	188.9	96.0	5.4	168.2	84.0	40.3	2.2	69.7
52	79.9	84.2	5.6	194.5	96.0	5.4	173.5	83.0	39.8	2.1	71.8
53	79.1	83.5	5.5	200.0	96.0	5.3	178.9	82.0	39.4	2.1	73.9
54	78.2	82.7	5.5	205.5	96.0	5.3	184.1	81.0	38.9	2.0	76.0
55	77.4	82.0	5.4	210.9	96.0	5.2	189.3	80.0	38.4	2.0	78.0
56	76.5	81.2	5.4	216.3	96.0	5.1	194.5	80.0	38.4	2.0	80.0
57	75.7	80.5	5.3	221.6	96.0	5.1	199.5	80.0	38.4	2.0	81.9
58	74.9	79.7	5.2	226.8	96.0	5.0	204.6	80.0	38.4	1.9	83.8
59	74.0	79.0	5.2	232.0	96.0	5.0	209.5	79.0	37.9	1.9	85.7
60	73.2	78.2	5.1	237.1	96.0	4.9	214.5	79.0	37.9	1.9	87.6
61	72.3	77.4	5.1	242.2	96.0	4.9	219.3	78.0	37.4	1.8	89.4
62	71.5	76.7	5.0	247.2	96.0	4.8	224.1	78.0	37.4	1.8	91.2
63	70.7	75.9	4.9	252.1	96.0	4.7	228.9	77.0	37.0	1.8	93.0
64	69.8	75.1	4.9	257.0	95.0	4.6	233.5	77.0	37.0	1.7	94.7
65	69.0	74.3	4.8	261.9	95.0	4.6	238.1	76.0	36.5	1.7	96.4
66	68.1	73.6	4.8	266.6	94.0	4.5	242.6	75.0	36.0	1.6	98.0
67	67.3	72.8	4.7	271.3	94.0	4.4	247.0	75.0	36.0	1.6	99.6
68	66.5	72.0	4.7	276.0	93.0	4.3	251.4	74.0	35.5	1.5	101.1
69	65.6	71.2	4.6	280.6	93.0	4.3	255.6	74.0	35.5	1.5	102.6
70	64.8	70.4	4.5	285.1	92.0	4.2	259.8	74.0	35.5	1.5	104.1
71	63.9	69.6	4.5	289.6	92.0	4.1	263.9	72.0	34.6	1.4	105.5
72	63.1	68.8	4.4	294.0	91.0	4.0	267.9	70.0	33.6	1.4	106.9

Production Targets for TETRA COUNTRY Parent Stock



Day-old Females from TETRA COUNTRY Parent Stock