TETRA
SELECTED FOR QUALITY

TETRA SPERBER

LAYER PARENT STOCK CHARTS AND GRAPHS

Performance Specifications of TETRA SPERBER Parent Stock

Liveability	
0-20 weeks of age	96-98%
21-72 weeks of age	90-96%
Feed consumption	
0-20 weeks of age	7.9-8.5 kg
21-72 weeks of age	42.5-46.1 kg
Body weight	
Females at 20 weeks of age	1.5-1.7 kg
Males at 20 weeks of age	2.2-2.4 kg
Females at 72 weeks of age	2.0-2.1 kg
Males at 72 weeks of age	3.0-3.2 kg
Maturity	
Age at 50% production	21-22 weeks
Peak production	26-33 weeks
Egg production per hen housed	
Until 72 weeks of age	284-296 pcs
Hatching egg production per hen housed	
Until 72 weeks of age	259-269 pcs
Hatchability (average)	81-84%
Saleable chicks per hen housed	
Until 72 weeks of age	103-107 pcs

Space and Equipment Requirements for TETRA SPERBER 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 SPERBER 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 SPERBER 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 SPERBER 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	69-74	70	69-75	12	0.1	Starter I
2	130	122-133	145	138-150	21	0.2	
3	195	186-202	235	227-246	26	0.4	
4	265	255-276	340	326-353	31	0.6	Starter II
5	335	323-350	465	445-482	36	0.9	
6	420	401-435	585	564-611	41	1.1	
7	510	490-530	710	682-739	45	1.5	
8	600	578-626	835	801-868	49	1.9	
9	695	666-721	960	920-996	53	2.3	Grower
10	785	754-817	1080	1038-1125	57	2.7	
11	875	842-912	1205	1157-1253	61	3.2	
12	970	930-1008	1330	1276-1382	65	3.7	
13	1060	1018-1103	1440	1384-1500	69	4.2	
14	1140	1097-1188	1565	1503-1628	72	4.7	
15	1225	1175-1273	1690	1622-1757	76	5.3	
16	1305	1253-1358	1815	1740-1885	79	5.8	
17	1385	1332-1443	1935	1859-2014	82	6.4	
18	1470	1410-1528	2050	1968-2132	85	7.0	Pre-layer upto 5% prod.
19	1550	1488-1612	2165	2076-2250	89	7.6	
20	1610	1547-1676	2265	2175-2357	93	8.2	
21	1675	1606-1740	2360	2264-2453	98	0.7	Breeder I from 5% prod.
22	1735	1665-1803	2440	2343-2539	103	1.4	
23	1785	1714-1856	2525	2413-2614	108	2.2	
24	1825	1753-1899	2610	2489-2696	113	3.0	
25	1875	1802-1952	2680	2563-2777	115	3.8	
30	1910	1841-1994	2765	2637-2857	116	7.8	
35	1940	1860-2016	2835	2711-2937	116	11.9	
40	1960	1880-2037	2900	2786-3018	116	16.0	
45	1980	1900-2058	2960	2833-3069	116	20.1	
50	2000	1919-2079	3005	2884-3125	115	24.1	Breeder II below 80% prod.
55	2010	1929-2090	3030	2908-3150	115	28.1	
60	2020	1939-2100	3055	2932-3176	115	32.2	
65	2030	1949-2111	3075	2951-3196	115	36.2	
70	2040	1958-2122	3085	2962-3209	115	40.3	
72	2040	1958-2122	3090	2966-3214	115	44.3	

** 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 SPERBER 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 SPERBER 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 SPERBER 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.*

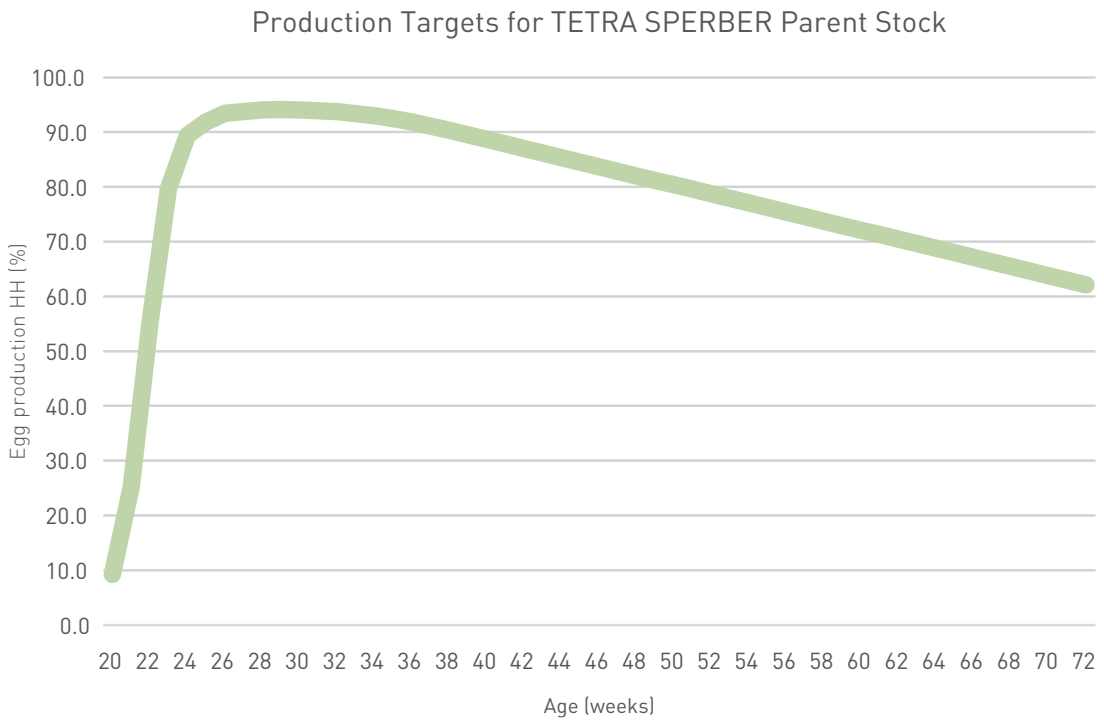
Supply of Fine and Coarse Limestone for TETRA SPERBER Parent Stock

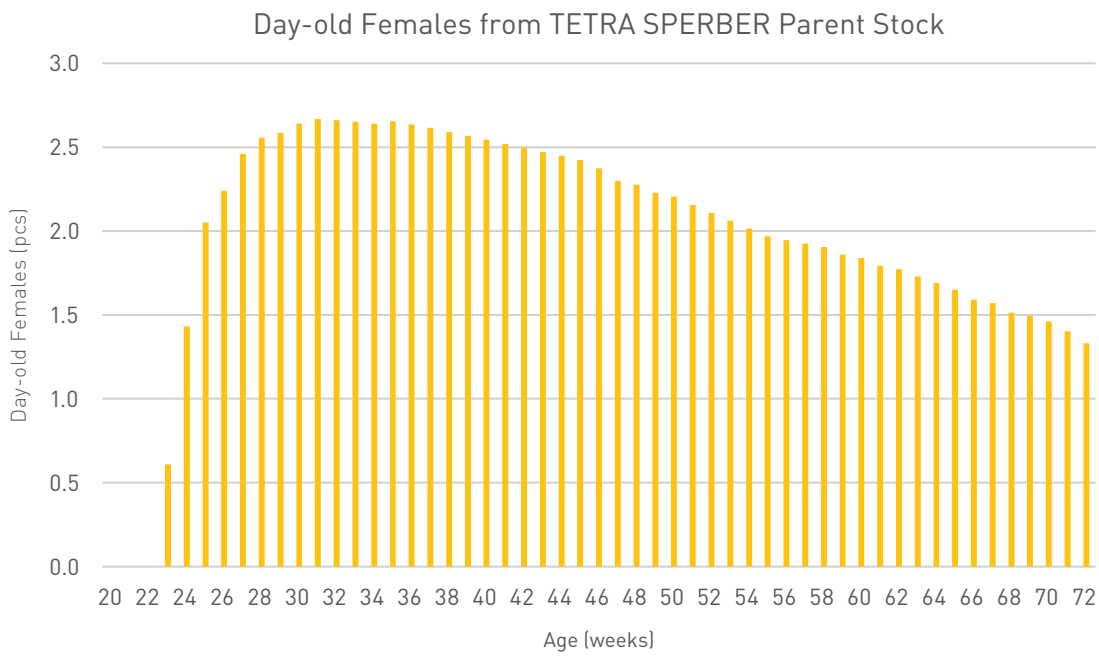
Limestone	Fine	Coarse
	(<0.5 mm)	(1.5-3.5 mm)
Breeder I	35%	65%
Breeder II	30%	70%

** Recommended ratio within diet.*

Production Targets for TETRA SPERBER 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	9.2	9.2	0.6	0.6							
21	25.3	25.3	1.8	2.4							
22	55.1	55.2	3.9	6.3							
23	79.8	80.2	5.6	11.9	30.0	1.7	1.7	76.0	36.5	0.6	0.6
24	89.5	90.1	6.3	18.1	61.0	3.8	5.5	78.0	37.4	1.4	2.0
25	91.9	92.7	6.4	24.6	83.0	5.3	10.8	80.0	38.4	2.1	4.1
26	93.5	94.4	6.5	31.1	87.0	5.7	16.5	82.0	39.4	2.2	6.3
27	93.8	94.8	6.6	37.7	93.0	6.1	22.6	84.0	40.3	2.5	8.8
28	94.1	95.3	6.6	44.3	94.0	6.2	28.8	86.0	41.3	2.6	11.4
29	94.2	95.6	6.6	50.8	95.0	6.3	35.1	86.0	41.3	2.6	13.9
30	94.1	95.6	6.6	57.4	96.0	6.3	41.4	87.0	41.8	2.6	16.6
31	94.0	95.7	6.6	64.0	96.0	6.3	47.7	88.0	42.2	2.7	19.2
32	93.8	95.6	6.6	70.6	96.0	6.3	54.0	88.0	42.2	2.7	21.9
33	93.5	95.4	6.5	77.1	96.0	6.3	60.3	88.0	42.2	2.7	24.6
34	93.0	95.2	6.5	83.6	96.0	6.3	66.6	88.0	42.2	2.6	27.2
35	92.5	94.8	6.5	90.1	97.0	6.3	72.8	88.0	42.2	2.7	29.9
36	91.9	94.3	6.4	96.5	97.0	6.2	79.1	88.0	42.2	2.6	32.5
37	91.2	93.7	6.4	102.9	97.0	6.2	85.3	88.0	42.2	2.6	35.1
38	90.4	93.0	6.3	109.2	97.0	6.1	91.4	88.0	42.2	2.6	37.7
39	89.5	92.3	6.3	115.5	97.0	6.1	97.5	88.0	42.2	2.6	40.3
40	88.7	91.6	6.2	121.7	97.0	6.0	103.5	88.0	42.2	2.5	42.8
41	87.9	90.9	6.2	127.9	97.0	6.0	109.5	88.0	42.2	2.5	45.3
42	87.0	90.2	6.1	134.0	97.0	5.9	115.4	88.0	42.2	2.5	47.8
43	86.2	89.5	6.0	140.0	97.0	5.9	121.2	88.0	42.2	2.5	50.3
44	85.4	88.8	6.0	146.0	97.0	5.8	127.0	88.0	42.2	2.4	52.7
45	84.6	88.1	5.9	151.9	97.0	5.7	132.8	88.0	42.2	2.4	55.2
46	83.7	87.4	5.9	157.8	97.0	5.7	138.5	87.0	41.8	2.4	57.5
47	82.9	86.6	5.8	163.6	96.0	5.6	144.0	86.0	41.3	2.3	59.8
48	82.1	85.9	5.7	169.3	96.0	5.5	149.6	86.0	41.3	2.3	62.1
49	81.2	85.2	5.7	175.0	96.0	5.5	155.0	85.0	40.8	2.2	64.4
50	80.4	84.5	5.6	180.6	96.0	5.4	160.4	85.0	40.8	2.2	66.6
51	79.6	83.7	5.6	186.2	96.0	5.3	165.8	84.0	40.3	2.2	68.7
52	78.8	83.0	5.5	191.7	96.0	5.3	171.1	83.0	39.8	2.1	70.8
53	77.9	82.3	5.5	197.2	96.0	5.2	176.3	82.0	39.4	2.1	72.9
54	77.1	81.5	5.4	202.6	96.0	5.2	181.5	81.0	38.9	2.0	74.9
55	76.3	80.8	5.3	207.9	96.0	5.1	186.6	80.0	38.4	2.0	76.9
56	75.5	80.1	5.3	213.2	96.0	5.1	191.7	80.0	38.4	1.9	78.8
57	74.6	79.3	5.2	218.4	96.0	5.0	196.7	80.0	38.4	1.9	80.7
58	73.8	78.6	5.2	223.6	96.0	5.0	201.7	80.0	38.4	1.9	82.6
59	73.0	77.8	5.1	228.7	96.0	4.9	206.6	79.0	37.9	1.9	84.5
60	72.1	77.1	5.0	233.7	96.0	4.8	211.4	79.0	37.9	1.8	86.3
61	71.3	76.3	5.0	238.7	96.0	4.8	216.2	78.0	37.4	1.8	88.1
62	70.5	75.6	4.9	243.7	96.0	4.7	220.9	78.0	37.4	1.8	89.9
63	69.7	74.8	4.9	248.5	96.0	4.7	225.6	77.0	37.0	1.7	91.6
64	68.8	74.0	4.8	253.4	95.0	4.6	230.2	77.0	37.0	1.7	93.3
65	68.0	73.3	4.8	258.1	95.0	4.5	234.7	76.0	36.5	1.6	95.0
66	67.2	72.5	4.7	262.8	94.0	4.4	239.1	75.0	36.0	1.6	96.6
67	66.3	71.7	4.6	267.5	94.0	4.4	243.5	75.0	36.0	1.6	98.1
68	65.5	71.0	4.6	272.0	93.0	4.3	247.8	74.0	35.5	1.5	99.7
69	64.7	70.2	4.5	276.6	93.0	4.2	252.0	74.0	35.5	1.5	101.2
70	63.9	69.4	4.5	281.0	92.0	4.1	256.1	74.0	35.5	1.5	102.6
71	63.0	68.6	4.4	285.5	92.0	4.1	260.1	72.0	34.6	1.4	104.0
72	62.2	67.8	4.4	289.8	91.0	4.0	264.1	70.0	33.6	1.3	105.3





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BÁBOLNA TETRA Ltd.
2943 Bábolna, Radnóti M. u. 16., Hungary
Tel.: +36 95 345 008
E-mail: info@babolnatetra.com
www.babolnatetra.com

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