



 **TETRA**
SELECTED FOR QUALITY

TETRA H
DUAL-PURPOSE
PARENT STOCK
CHARTS AND GRAPHS

TETRA H

DUAL-PURPOSE PARENT STOCK CHARTS AND GRAPHS



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Performance Specifications of TETRA H Dual-Purpose Parent Stock

Liveability	
0-20 weeks of age	97.5%
21-67 weeks of age	95.0%
Feed consumption	
Females 0-67 weeks of age	44.9 kg
Males 0-67 weeks of age	50.3 kg
Body weight	
Females at 20 weeks of age	1500 g
Males at 20 weeks of age	3540 g
Females at 24 weeks of age	1750 g
Males at 24 weeks of age	3815 g
Females at 67 weeks of age	2050 g
Males at 67 weeks of age	4465 g
Maturity	
Age at 50% production	20-21 weeks
Peak production	25-33 weeks
Egg production per hen housed	
Until 67 weeks of age	285 pcs
Hatching egg production per hen housed	
Until 67 weeks of age	272 pcs
Hatchability [average]	87%
Saleable chicks per hen housed	
Until 67 weeks of age	237 pcs

Space and Equipment Requirements for TETRA H Dual-Purpose Parent Stock Males

Age (weeks)		0-6	7-17	over 17
Density (bird/m ²)	Floor system	10-12	3-4	1-2
	Birds/nipple	8-10	6	4-6
Drinking space	Birds/drinkers (ø 46 cm)	60-80		
	Through or circular feeders (space/bird)	5 cm plus extra feeding surface in the first 4 days	15 cm	20 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. Males and females should be raised separately.*

Space and Equipment Requirements for TETRA H Dual-Purpose Parent Stock Females

Age (weeks)		0-6	7-17	over 17
Density (bird/m ²)	Floor system	20-24	10-12	6-7
	Birds/nipple	10-12	8	4-6
Drinking space	Birds/drinkers (ø 46 cm)	100-130		
	Through or circular feeders (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. Males and females should be raised separately.*

Temperature Requirements for TETRA H Dual-Purpose Parent Stock

Age (days)	Temperature (°C) at Chicks' Level
0-2	32-33
3-4	31-32
5-7	31
8-14	30
15-21	27
22-28	24
29-35	22
35-	20

Lighting Programme for TETRA H Dual-Purpose Parent Stock

Age	Hours of Light	Light intensity (lux)
Days 0-2	23	20-30
Days 3-7	22	20-30
Week 2	16	10 [-20]
Week 3	15	5 [-10]
Week 4	14	5 [-10]
Week 5	13	5 [-10]
Week 6	12	5 [-10]
Week 7	11	5 [-10]
Weeks 8-17	10	5 [-10]
Week 18	11	10 [-20]
Week 19	12	10 [-20]
Week 20	13	10 [-20]
Weeks 21-24	14	10 [-20]
Weeks 25-67	14 [-16]	10 [-20]

Weight Development and Feed Intake of TETRA H Dual-Purpose Parent Stock Males

Age (weeks)	TETRA H Dual-Purpose Parent Stock Males					Feed Type
	Body Weight (g)		Feed Consumption			
	Average	Range	Daily (g)	Weekly (g)	Cumulative (kg)	
1	135	130 - 140	30	208	0.2	Starter I
2	300	288 - 312	35	243	0.5	
3	480	461 - 499	40	277	0.7	
4	660	634 - 686	45	312	1.0	Starter II
5	840	806 - 874	49	343	1.4	
6	1020	979 - 1061	53	374	1.8	
7	1200	1152 - 1248	57	402	2.2	
8	1380	1325 - 1435	61	430	2.6	Grower
9	1560	1498 - 1622	65	457	3.0	
10	1740	1670 - 1810	69	485	3.5	
11	1920	1843 - 1997	73	513	4.0	
12	2100	2016 - 2184	77	541	4.6	
13	2280	2189 - 2371	81	568	5.2	
14	2460	2362 - 2558	85	596	5.7	
15	2640	2534 - 2746	89	624	6.4	
16	2820	2707 - 2933	93	651	7.0	
17	3000	2880 - 3120	97	679	7.7	
18	3180	3053 - 3307	101	707	8.4	
19	3360	3226 - 3494	105	735	9.1	
20	3540	3398 - 3682	109	763	9.9	Breeder Male
21	3650	3504 - 3796	112	784	10.7	
22	3760	3610 - 3910	115	805	11.5	
23	3800	3648 - 3952	116	812	12.3	
24	3815	3662 - 3968	116	812	13.1	
25	3830	3677 - 3983	117	819	13.9	
26	3845	3691 - 3999	117	819	14.8	
27	3860	3706 - 4014	117	818	15.6	
28	3875	3720 - 4030	118	825	16.4	
29	3890	3734 - 4046	118	825	17.2	
30	3905	3749 - 4061	118	825	18.0	
31	3925	3768 - 4082	119	832	18.9	
32	3940	3782 - 4098	119	832	19.7	
33	3955	3797 - 4113	119	832	20.5	
34	3970	3811 - 4129	120	839	21.4	
35	3985	3826 - 4144	120	839	22.2	
36	4000	3840 - 4160	120	839	23.1	
37	4015	3854 - 4176	121	845	23.9	
38	4030	3869 - 4191	121	845	24.8	
39	4045	3883 - 4207	121	845	25.6	
40	4060	3898 - 4222	122	852	26.4	
41	4075	3912 - 4238	122	852	27.3	
42	4090	3926 - 4254	122	852	28.2	
43	4105	3941 - 4269	123	859	29.0	
44	4120	3955 - 4285	123	859	29.9	
45	4135	3970 - 4300	123	859	30.7	
46	4150	3984 - 4316	124	866	31.6	
47	4165	3998 - 4332	124	866	32.5	
48	4180	4013 - 4347	124	866	33.3	
49	4195	4027 - 4363	125	873	34.2	
50	4210	4042 - 4378	125	873	35.1	
51	4225	4056 - 4394	125	873	36.0	
52	4240	4070 - 4410	126	880	36.8	
53	4255	4085 - 4425	126	880	37.7	
54	4270	4099 - 4441	126	880	38.6	
55	4285	4114 - 4456	127	887	39.5	
56	4300	4128 - 4472	127	887	40.4	
57	4315	4142 - 4488	127	887	41.3	
58	4330	4157 - 4503	128	894	42.1	
59	4345	4171 - 4519	128	894	43.0	
60	4360	4186 - 4534	128	894	43.9	
61	4375	4200 - 4550	129	901	44.8	
62	4390	4214 - 4566	129	901	45.7	
63	4405	4229 - 4581	129	901	46.6	
64	4420	4243 - 4597	130	908	47.5	
65	4435	4258 - 4612	130	908	48.5	
66	4450	4272 - 4628	130	908	49.4	
67	4465	4286 - 4644	130	908	50.3	

* 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.

Weight Development and Feed Intake of TETRA H Dual-Purpose Parent Stock Females

Age (weeks)	TETRA H Dual-Purpose Parent Stock Females					Feed Type
	Body Weight (g)		Feed Consumption			
	Average	Range	Daily (g)	Weekly (g)	Cumulative (kg)	
1	70	67 - 73	12	84	0.1	Starter I
2	130	125 - 135	17	119	0.2	
3	200	192 - 208	23	161	0.4	
4	270	259 - 281	28	196	0.6	Starter II
5	345	331 - 359	32	224	0.8	
6	420	403 - 437	37	259	1.0	
7	500	480 - 520	42	294	1.3	
8	580	557 - 603	47	329	1.7	
9	660	634 - 686	52	364	2.0	
10	740	710 - 770	56	392	2.4	Grower
11	820	787 - 853	60	420	2.8	
12	900	864 - 936	64	448	3.3	
13	975	936 - 1014	68	476	3.8	
14	1050	1008 - 1092	72	504	4.3	
15	1125	1080 - 1170	76	532	4.8	
16	1200	1152 - 1248	80	560	5.4	
17	1275	1224 - 1326	84	588	6.0	
18	1350	1296 - 1404	88	616	6.6	
19	1425	1368 - 1482	92	644	7.2	Pre-layer up to 5% prod.
20	1500	1440 - 1560	96	672	7.9	
21	1565	1502 - 1628	100	700	8.6	
22	1635	1570 - 1700	104	728	9.3	Breeder I from 5% prod.
23	1695	1627 - 1763	108	756	10.1	
24	1750	1680 - 1820	110	770	10.8	
25	1800	1728 - 1872	111	777	11.6	
26	1830	1757 - 1903	112	784	12.4	
27	1845	1771 - 1919	112	784	13.2	
28	1855	1781 - 1929	113	791	14.0	
29	1860	1786 - 1934	113	791	14.8	
30	1865	1790 - 1940	114	798	15.6	
31	1870	1795 - 1945	114	798	16.4	
32	1875	1800 - 1950	114	798	17.2	
33	1880	1805 - 1955	114	798	18.0	
34	1885	1810 - 1960	114	798	18.8	
35	1890	1814 - 1966	114	798	19.6	
36	1895	1819 - 1971	114	798	20.3	
37	1900	1824 - 1976	114	798	21.1	
38	1905	1829 - 1981	114	798	21.9	
39	1910	1834 - 1986	114	798	22.7	
40	1915	1838 - 1992	114	798	23.5	
41	1920	1843 - 1997	114	798	24.3	
42	1925	1848 - 2002	114	798	25.1	
43	1930	1853 - 2007	114	798	25.9	
44	1935	1858 - 2012	114	798	26.7	
45	1940	1862 - 2018	114	798	27.5	
46	1945	1867 - 2023	114	798	28.3	
47	1950	1872 - 2028	114	798	29.1	
48	1955	1877 - 2033	113	791	29.9	
49	1960	1882 - 2038	113	791	30.7	
50	1965	1886 - 2044	113	791	31.5	
51	1970	1891 - 2049	113	791	32.3	
52	1975	1896 - 2054	113	791	33.1	
53	1980	1901 - 2059	113	791	33.9	
54	1985	1906 - 2064	113	791	34.7	
55	1990	1910 - 2070	113	791	35.5	
56	1995	1915 - 2075	112	784	36.2	
57	2000	1920 - 2080	112	784	37.0	
58	2005	1925 - 2085	112	784	37.8	Breeder II below 80% prod.
59	2010	1930 - 2090	112	784	38.6	
60	2015	1934 - 2096	112	784	39.4	
61	2020	1939 - 2101	112	784	40.2	
62	2025	1944 - 2106	112	784	40.9	
63	2030	1949 - 2111	112	784	41.7	
64	2035	1954 - 2116	112	784	42.5	
65	2040	1958 - 2122	112	784	43.3	
66	2045	1963 - 2127	112	784	44.1	
67	2050	1968 - 2132	112	784	44.9	

* 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 Recommendations for TETRA H Dual-Purpose Parent Stock Males (Growing Period)

Feed Type		Starter I	Starter II	Grower
Age (weeks)		1-3	4-8	9-19
ENERGY & NUTRIENT				
Met. energy	MJ/kg	12	11.7	11.5
Met. energy	kcal/kg	2870	2800	2700
Crude protein	%	19.50	18.00	15.50
AMINO ACIDS, TOTAL				
Lysine	%	1.1	0.95	0.65
Methionine	%	0.45	0.40	0.35
Methionine + cysteine	%	0.75	0.70	0.60
Threonine	%	0.72	0.65	0.50
Valine	%	0.80	0.71	0.52
Arginine	%	1.12	0.97	0.66
Tryptophan	%	0.22	0.19	0.13
Isoleucine	%	0.77	0.67	0.49
AMINO ACIDS, DIGESTIBLE				
Lysine	%	0.90	0.80	0.55
Methionine	%	0.38	0.35	0.32
Methionine + cysteine	%	0.65	0.62	0.55
Threonine	%	0.62	0.57	0.47
Valine	%	0.68	0.61	0.44
Arginine	%	0.95	0.82	0.56
Tryptophan	%	0.19	0.17	0.12
Isoleucine	%	0.65	0.57	0.41
Linoleic acid	%	1.50	1.25	1.00
Calcium	%	1.00	1.00	1.00
Phosphorus, available	%	0.45	0.45	0.40
Sodium	%	0.16-0.18	0.16-0.18	0.16-0.18
Chloride	%	0.15-0.30	0.15-0.30	0.15-0.30

Nutritional Recommendation for TETRA H Dual-Purpose Parent Stock Females (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 Recommendations for TETRA H Dual-Purpose Parent Stock (Production Period)

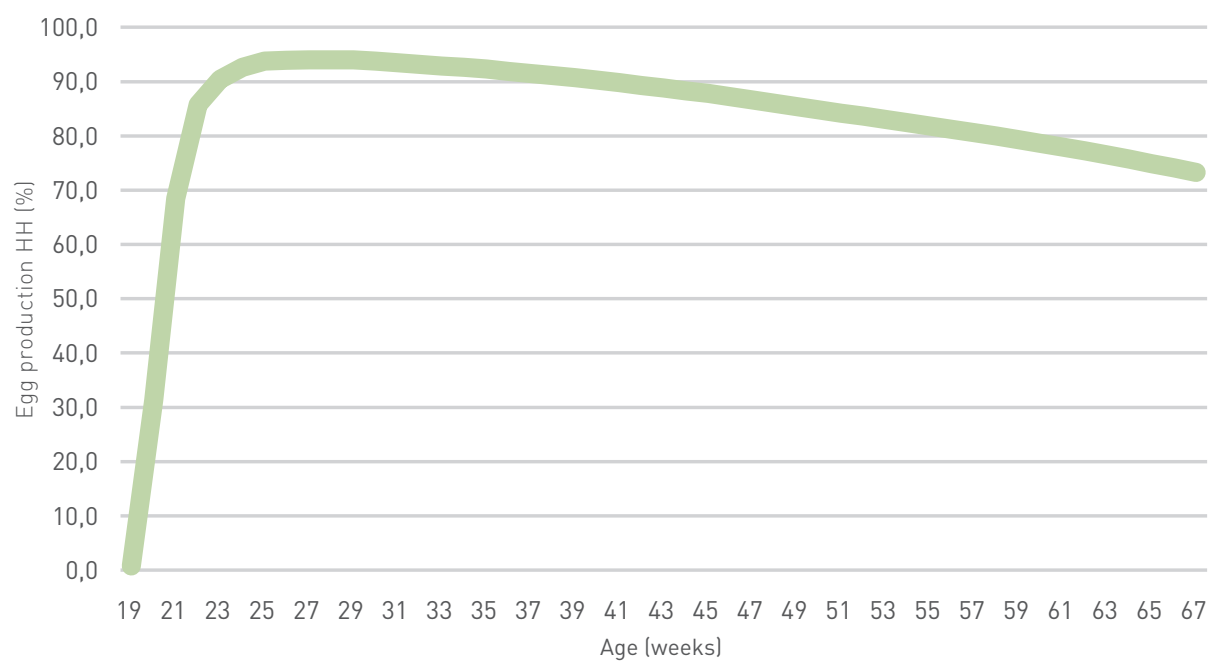
Feed Type		Breeder I from 5% Production			Breeder II below 80% Production			Breeder Male
Daily feed consumption		110 g	115 g	120 g	110 g	115 g	120 g	20-67 weeks
ENERGY & NUTRIENT								
Met. energy	MJ/kg	11.70	11.50	11.25	11.60	11.40	11.20	11.5
Met. energy	kcal/kg	2800	2750	2700	2780	2720	2680	2700
Crude protein	%	18.00	17.00	16.00	17.00	16.00	15.00	14.5
AMINO ACIDS, TOTAL								
Lysine	%	0.87	0.82	0.78	0.83	0.79	0.75	0.60
Methionine	%	0.43	0.41	0.39	0.42	0.39	0.37	0.35
Methionine + cysteine	%	0.75	0.71	0.68	0.74	0.70	0.66	0.60
Threonine	%	0.60	0.57	0.54	0.58	0.55	0.53	0.50
Valine	%	0.70	0.66	0.63	0.67	0.63	0.60	0.55
Arginine	%	0.88	0.83	0.79	0.84	0.79	0.75	0.65
Tryptophan	%	0.18	0.17	0.16	0.17	0.16	0.15	0.15
Isoleucine	%	0.65	0.62	0.60	0.62	0.59	0.57	0.5
AMINO ACIDS, DIGESTIBLE								
Lysine	%	0.71	0.67	0.64	0.69	0.65	0.62	0.5
Methionine	%	0.38	0.36	0.34	0.36	0.34	0.32	0.3
Methionine + cysteine	%	0.62	0.59	0.56	0.61	0.58	0.55	0.5
Threonine	%	0.49	0.46	0.44	0.48	0.46	0.43	0.41
Valine	%	0.57	0.54	0.51	0.55	0.52	0.50	0.45
Arginine	%	0.72	0.68	0.64	0.68	0.64	0.61	0.55
Tryptophan	%	0.15	0.14	0.13	0.14	0.13	0.12	0.12
Isoleucine	%	0.54	0.51	0.49	0.51	0.48	0.47	0.4
Linoleic acid	%	1.90	1.80	1.70	1.80	1.70	1.60	1.20
Calcium	%	3.90	3.75	3.60	4.10	3.85	3.70	1
Phosphorus, available	%	0.42	0.39	0.37	0.40	0.38	0.36	0.4
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	0.16-0.18
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	0.15-0.30

* 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.

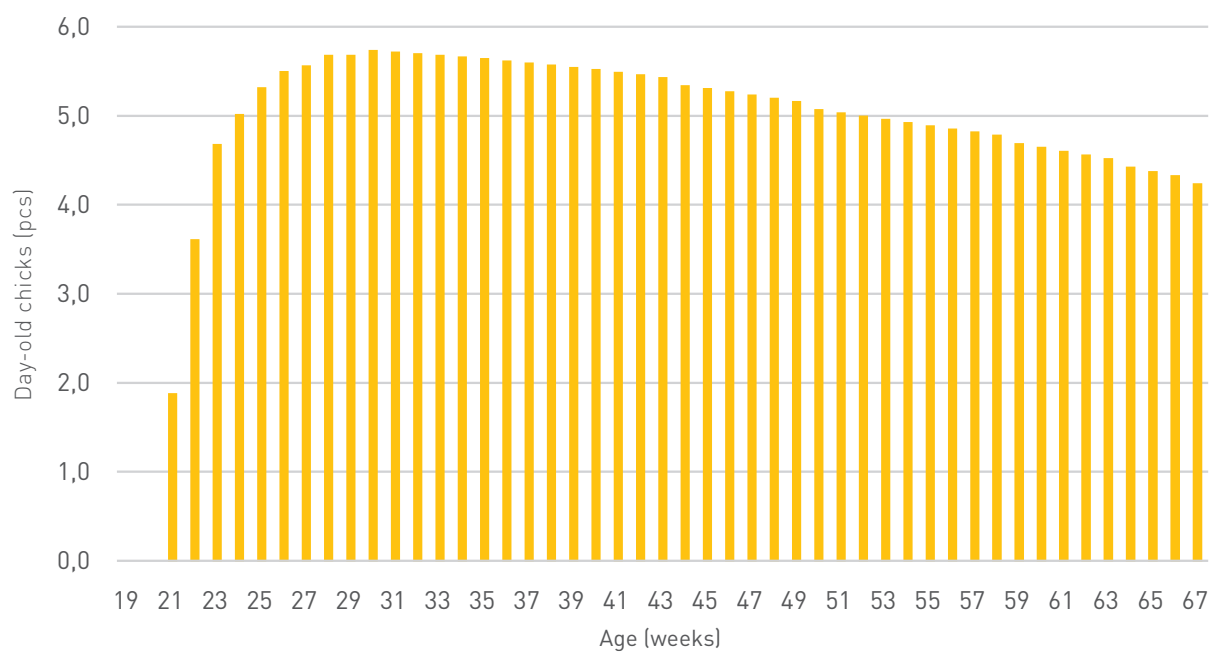
Production Targets for TETRA H Dual-Purpose Parent Stock

Age (weeks)	Egg Production		Eggs		Hatching Eggs			Hatch	Day-old Chicks	
	Hen Housed	Hen Day	Weekly	Cumulative	Weekly		Cumulative	Weekly	Weekly	Cumulative
	%	%	pcs	pcs	%	pcs	pcs	%	pcs	pcs
19	0.8	0.8	0.1	0.1						
20	31.3	31.4	2.2	2.2						
21	68.5	68.7	4.8	7.0	50.0	2.4	2.4	78.0	1.9	1.9
22	85.8	86.2	6.0	13.0	75.0	4.5	6.9	80.0	3.6	5.5
23	90.4	91.0	6.3	19.4	90.0	5.7	12.6	82.0	4.7	10.1
24	92.6	93.3	6.5	25.9	92.0	6.0	18.6	84.0	5.0	15.2
25	93.8	94.7	6.6	32.4	94.0	6.2	24.7	86.0	5.3	20.5
26	93.9	95.0	6.6	39.0	96.0	6.3	31.0	87.0	5.5	26.0
27	94.0	95.2	6.6	45.6	97.0	6.4	37.4	87.0	5.6	31.5
28	94.0	95.4	6.6	52.2	98.0	6.4	43.9	88.0	5.7	37.2
29	94.0	95.5	6.6	58.7	98.0	6.4	50.3	88.0	5.7	42.9
30	93.8	95.5	6.6	65.3	98.0	6.4	56.8	89.0	5.7	48.6
31	93.5	95.3	6.5	71.8	98.0	6.4	63.2	89.0	5.7	54.3
32	93.2	95.2	6.5	78.4	98.0	6.4	69.6	89.0	5.7	60.0
33	92.9	95.0	6.5	84.9	98.0	6.4	75.9	89.0	5.7	65.7
34	92.6	94.9	6.5	91.4	98.0	6.4	82.3	89.0	5.7	71.3
35	92.3	94.7	6.5	97.8	98.0	6.3	88.6	89.0	5.6	76.9
36	91.9	94.5	6.4	104.3	98.0	6.3	94.9	89.0	5.6	82.6
37	91.5	94.2	6.4	110.7	98.0	6.3	101.2	89.0	5.6	88.1
38	91.1	94.0	6.4	117.0	98.0	6.2	107.5	89.0	5.6	93.7
39	90.7	93.7	6.3	123.4	98.0	6.2	113.7	89.0	5.5	99.2
40	90.3	93.4	6.3	129.7	98.0	6.2	119.9	89.0	5.5	104.7
41	89.8	93.1	6.3	136.0	98.0	6.2	126.0	89.0	5.5	110.2
42	89.3	92.7	6.3	142.2	98.0	6.1	132.2	89.0	5.5	115.7
43	88.8	92.3	6.2	148.5	98.0	6.1	138.2	89.0	5.4	121.1
44	88.3	92.0	6.2	154.6	98.0	6.1	144.3	88.0	5.3	126.4
45	87.8	91.6	6.1	160.8	98.0	6.0	150.3	88.0	5.3	131.7
46	87.2	91.1	6.1	166.9	98.0	6.0	156.3	88.0	5.3	137.0
47	86.6	90.7	6.1	172.9	98.0	5.9	162.2	88.0	5.2	142.2
48	86.0	90.2	6.0	179.0	98.0	5.9	168.1	88.0	5.2	147.4
49	85.4	89.7	6.0	184.9	98.0	5.9	174.0	88.0	5.2	152.6
50	84.8	89.2	5.9	190.9	98.0	5.8	179.8	87.0	5.1	157.6
51	84.2	88.7	5.9	196.8	98.0	5.8	185.6	87.0	5.0	162.7
52	83.6	88.3	5.9	202.6	98.0	5.7	191.3	87.0	5.0	167.7
53	83.0	87.8	5.8	208.4	98.0	5.7	197.0	87.0	5.0	172.6
54	82.4	87.3	5.8	214.2	98.0	5.7	202.7	87.0	4.9	177.5
55	81.8	86.8	5.7	219.9	98.0	5.6	208.3	87.0	4.9	182.4
56	81.2	86.3	5.7	225.6	98.0	5.6	213.9	87.0	4.8	187.3
57	80.6	85.8	5.6	231.3	98.0	5.5	219.4	87.0	4.8	192.1
58	80.0	85.3	5.6	236.9	98.0	5.5	224.9	87.0	4.8	196.8
59	79.3	84.7	5.6	242.4	98.0	5.4	230.3	86.0	4.7	201.5
60	78.6	84.1	5.5	247.9	98.0	5.4	235.7	86.0	4.6	206.2
61	77.9	83.5	5.5	253.4	98.0	5.3	241.1	86.0	4.6	210.7
62	77.2	82.9	5.4	258.8	98.0	5.3	246.4	86.0	4.6	215.3
63	76.5	82.3	5.4	264.1	98.0	5.2	251.6	86.0	4.5	219.8
64	75.7	81.6	5.3	269.4	98.0	5.2	256.8	85.0	4.4	224.2
65	74.9	80.9	5.2	274.7	98.0	5.1	261.9	85.0	4.4	228.6
66	74.1	80.1	5.2	279.9	98.0	5.1	267.0	85.0	4.3	232.9
67	73.3	79.4	5.1	285.0	97.0	5.0	272.0	85.0	4.2	237.1

Production Targets for TETRA H Dual-Purpose Parent Stock



Day-old Chicks from TETRA H Dual-Purpose Parent Stock



Vitamins and Micronutrient Recommendation for TETRA H Dual-Purpose Parent Stock Males

FEED TYPE		Starter I-II	Grower	Breeder Male
ADDED VITAMINS				
Vitamin A	UI/kg	10000	10000	10000
Vitamin D ₃	UI/kg	3200	3200	3200
Vitamin E	mg/kg	80	65	100
Vitamin K ₃	mg/kg	3	2	2
Vitamin B ₁	mg/kg	2	2	2
Vitamin B ₂	mg/kg	5	4	5
Vitamin B ₆	mg/kg	4	2	3
Vitamin B ₁₂	mcg/kg	20	10	20
Pantothenic acid	mg/kg	12	8	10
Niacin	mg/kg	40	30	30
Biotin	mcg/kg	100	100	100
Folic acid	mg/kg	1	1	1
Choline	mg/kg	400	300	400
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

Vitamins and Micronutrient Recommendation for TETRA H Dual-Purpose Parent Stock Females

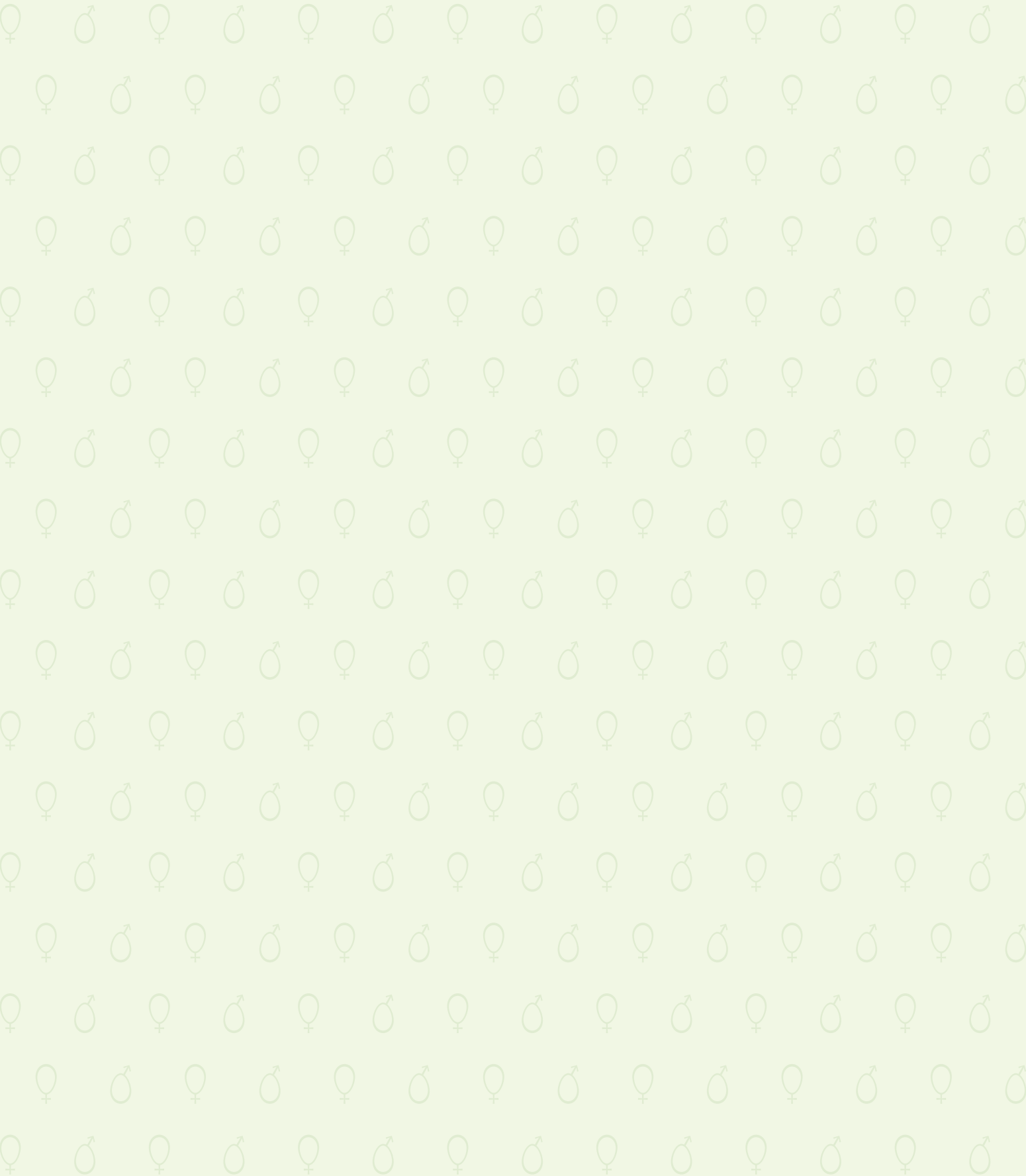
FEED TYPE		Starter I-II	Grower	Pre-layer / Breeder I-II
ADDED VITAMINS				
Vitamin A	UI/kg	10000	10000	10000
Vitamin D ₃	UI/kg	3200	3200	3200
Vitamin E	mg/kg	50	30	60
Vitamin K ₃	mg/kg	3	2	5
Vitamin B ₁	mg/kg	3	2	4
Vitamin B ₂	mg/kg	8	6	10
Vitamin B ₆	mg/kg	5	4	5
Vitamin B ₁₂	mcg/kg	20	15	30
Pantothenic 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 H Dual-Purpose Parent Stock Females

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

* Recommended ratio within diet.



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