

# DOMINANT CZ

## FINAL HYBRID

COMMON MANAGEMENT GUIDE  
LAYERS PROGRAMMES



D - 102



PARENTS

HYBRID

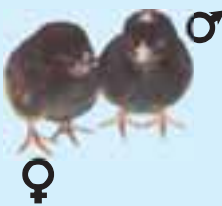
D - 192



PARENTS

HYBRID

D - 109



PARENTS

HYBRID

D - 107



PARENTS

HYBRID

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## 1. INTRODUCTION

Dominant CZ firm offers for brown egg layers 8 autosexing coloured programmes:

DOMINANT BROWN D 102 and DOMINANT brown D 192 = coloursexed through silver-red S/s alleles of Silwer gene.

DOMINANT BLACK D 109, DOMINANT BLACK D 149 and DOMINANT BLUE D 107 = coloursexed through barred/nonbarred B/b alleles of Bar gene.

DOMINANT SUSSEX D 104, DOMINANT BARRED D 959 and DOMINANT AMBER D 843 feathersexed through slow/fast feathering K/k alleles of K gene.

These original layers programmes are used in different - rural - organic - extensive - industrial - production conditions. All this programmes have high adaptability to possible feeding and environment conditions, answering common changes of conditions by selection of pure lines in original stocks in the last 15 generations.

It is not possible to describe all details for all producing systems. We offer to Your attention only common principles, which are recommend as optimal for the achievement of profit in all systems of producing of consume eggs. All producing systems have own specifications, but fundamental demands of chickens and pullets in rearing period and fundamental demands of hens in laying period are similar in all types of environment.

There must be tendency of a good breeder try to establish optimal conditions for his stocks. Next information can help You to reach it.

Detail parameters of productivity of all 8 programmes are described on seperate enclosures.

## 2. PRINCIPLES OF PROSPEROUS REARING AND LAYING PERIOD

- I. Cleaning and washing of the rearing and production halls and also all technological equipments before delivery day.
- II. Disinsectization, disinfection, deratization of the rearing and producing halls after last stock in hall.
- III. Observance technological recommendations and requirements for final hybrids DOMINANT CZ
- IV. Quality of rearing period determine the achievement of performance potential in laying period.

## 3. LIVING SPACE FOR CHICKENS

It is optimal for rearing to keep chickens first 8 weeks in isolation from older birds.

1 - 4 weeks of age:	25 birds / m <sup>2</sup> of floor area 60 birds / m <sup>2</sup> of cage
5 - 10 weeks of age:	12 birds / m <sup>2</sup> of floor area 25 birds / m <sup>2</sup> of cage
11 - 18 weeks of age:	9 birds / m <sup>2</sup> of floor area 25 birds / m <sup>2</sup> of cage
19 - 78 week of age"	5-7 birds / m <sup>2</sup> of floor area 20-25 birds / m <sup>2</sup> of cage

## 4. FEEDING SPACE

	litter system	cage system
week 1 - 10	7 cm per individual	7 cm per individual
week 11 - 78	12 cm per individual	10 cm per individual

For feeding of layers Dominant CZ final hybrid is recommended to use system „ad libitum“, without restrictions. Dominant CZ layers usually do not require beak trimming and are quiet, especially in fixed conditions without stress factors.

## 5. INFORMATIVE AVERAGE FEED CONSUMPTION AND BODY WEIGHT OF FINAL HYBRIDS IN REARING

Age in weeks	Average Feed Consumption		Optimum body weight in grams			
	g/day	kg cum.	MAXIMAL		MINIMAL	
			cocks	pullets	cocks	pullets
1	12	0.084	80	70	80	70
2	19	0.217	150	130	150	130
3	24	0.385	280	200	270	190
4	28	0.581	365	270	355	260
5	34	0.819	450	350	440	340
6	39	1.092	580	440	560	430
7	44	1.400	710	450	680	440
8	49	1.771	840	650	800	630
9	53	2.142	980	770	940	750
10	58	2.548	1.130	880	1.080	860
11	63	2.989	1.280	980	1.230	960
12	68	3.465	1.420	1.070	1.360	1.040
13	71	3.962	1.550	1.150	1.480	1.120
14	73	4.473	1.670	1.230	1.590	1.200
15	75	4.998	1.780	1.300	1.690	1.270
16	77	5.537	1.890	1.370	1.800	1.330
17	78	6.083	2.000	1.440	1.890	1.390
18	79	6.636	2.100	1.500	1.980	1.450

## **DRINKING SPACE**

Floor area: week 1 - 10: 2 cm per individual and later increase to 3 cm per chick

Cages: 10 chickens per 1 nipple and in every cage minimally 2 nipples.

It would be better for the first week in cages with nipples place one drinker per 100 chickens in every cage and use it no more than 1 week

In drinking system for chickens, pullets and hens the water must be available all the time.

## **7. BROODING TEMPERATURE (LOCAL HEATING)**

Optimal temperatures for chickens reared at floor and in cages (in the height of chickens) are:

1<sup>st</sup> week 32 - 34 °C

2<sup>nd</sup> week 31 - 27 °C

In following weeks reduce by 2°C gradually till 20°C.

The temperature near 20°C must be kept till the 18<sup>th</sup> weeks and this temperature is optimal for the laying period as well.

## **8. LIGHTING PROGRAMME**

Light requirements are described in the lighting schedule attached on the page 6. This is the most important for the achievement of required performance of final layers in halls with controlled lighting programme to control number and weight of eggs between 20<sup>th</sup> and 30<sup>th</sup> weeks and correction of lighting programme especially between 22<sup>th</sup> and 26<sup>th</sup> week. It is better for obtaining higher weight of eggs to keep lighting period for 13 hours or for more smaller eggs it is better add every week half of hour of light and finally achieve 16 hours on 28<sup>th</sup> week.

Lighting programme in open systems must be corrected in the hall through increase the hours of light, to be near the schedule for controlled lighting.

Light intensity needed:

1 - 3 week 3-4 W / m<sup>2</sup>

4 - 16 week 1-2 W / m<sup>2</sup>

17 - 78 week 2-3 W / m<sup>2</sup>

## **9. FEEDING PROGRAMME**

Minimally 4 periods with special feed mixtures:

0 - 4 week starter for layers

5 -10 week grower for layers

11 -18 week feed mixture for pullets

19 - 78 week feed mixture for layers

Recommended requirements of nutrients and energy for final hybrids of DOMINANT CZ programmes is described in schedule attached on the page 5.

## **10. WEIGHTING PROGRAMME**

It is recommended in the rearing period to weigh from 5<sup>th</sup>. week of age every week or 1x after 2 weeks. Well-balanced flock is, when 80 % of individual body weights has be in the interval +/- 10% of real average body weight. Important for the well balanced flock is ad libitum system of feeding, optimal concentration of chickens in hall and adequate dislocation of the technology in the whole area of hall.

## **11. VACCINATION PROGRAMME**

Routine vaccination programme must be discussed with local Veterinary Adviser and he must recommend optimal vaccination for Your place and actual epidemiologic situation in Your territory. You must cooperate with Your hatching expert and discuss optimal Marek vaccine and finally to obtain information about maternal immunities of Your chickens.

It is optimal, if every flock should be under control of Poultry Veterinary Adviser for the control of immunity after vaccination, there should be a quick reaction in the case of infection in the flock.

## **12. TRANSFER OF PULLETS FROM THE REARING HALL INTO THE PRODUCTION HALL**

It is recommended to make the transfer in the age of 17 weeks optimally and following principles must be respected:

1. Before the transfer tranquillizers should be delivered
2. No vaccination of poultry one week before and one week after the transfer
3. transfer in early morning hours is recommended
4. Use suitable transport boxes only with optimal number of birds placed for preventing losses by crashing and stifling
5. Leave free space of 15 cm between the boxes during the transfer for good ventilation. Protect the front boxes from draught
6. The boxes must be under control during the transport
7. In the production hall the drinkers with sufficient water supplies must be installed
8. It is recommended to use at least for the first week after transfer pullets the same feed mixture as in the rearing period

## **13. CLIMATISATION AND VENTILATION**

Sufficient aeration should be without draught, hall temperature should be from 18°- 24°C. Temperature under 15°C for longer period negatively affects the quality of litter and the laying performance. Temperature higher than 30°C causes less feed consumption and less egg productivity. It is optimal for the change of fresh air the quantity from 1 - 6 cubic meter of air per one hour per one kg of live body weight of chickens or hens, depending on temperature and humidity. Optimal humidity in the hall is from 40 - 60 %.

## **14. EGG COLLECTING BY LITTER TECHNOLOGY**

It is important for the collecting to clean eggs to minimize eggs lost from floor. These eggs must be frequently collected. Nests must be distributed equably in the whole hall and one nest must be for 4-5 hens.

## **15. DAILY CONTROL OF EVERY SEPARATED FLOCK**

There must be every day control of mortality and health status in each flock and technological parameters temperature, ventilation, drinking and feeding.

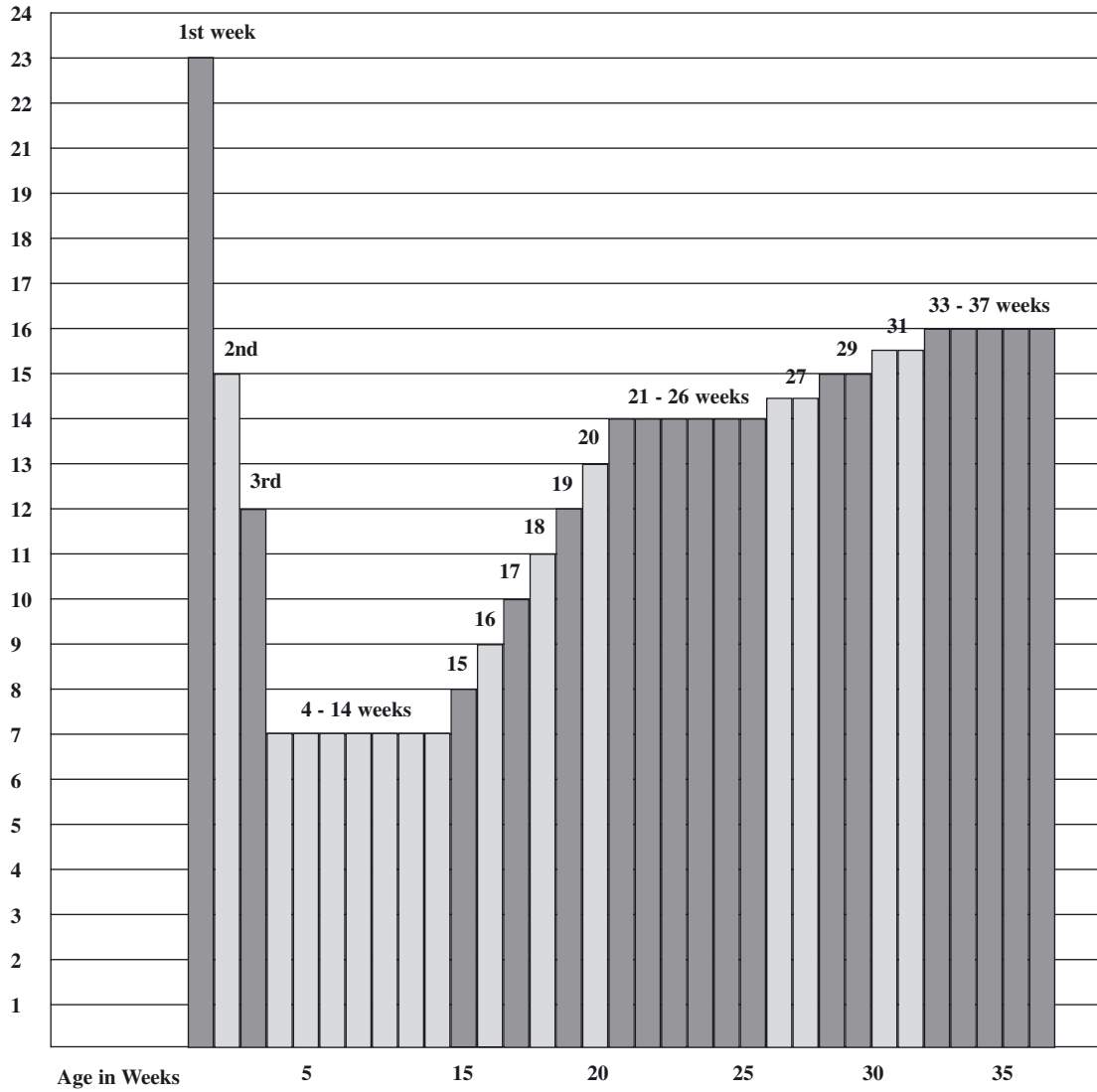


**16. RECOMMENDED REQUIREMENTS OF NUTRIENTS AND ENERGY  
DOMINANT CZ - LAYERS - FINAL HYBRID**

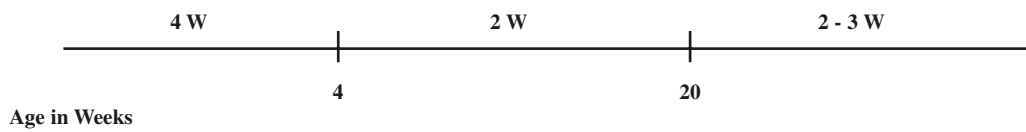
	Chickens 0 - 4 wks starter	Grower 5 - 10 weeks	Grower 11 - 18 weeks	Layers I 19 - 39 weeks	Layers II 40 - 78 weeks
Protein %	19,5	18-	15	17	15,5
Metabol. Kca 1/kg energy KJ/kg	2.875 12.000	2.850 11.900	2.750 11.500	2.750 11.500	2.700 11.300
<b>MINERALS</b>					
Calcium %	1,0 - 1,1	1,0 - 1,1	1,3 - 3,0	3,3 - 3,7	3,8 - 4,0
Avail. Phosphorus %	0,45	0,40	0,35	0,37	3,3
Sodium %	0,17	0,16	0,16	0,16	0,16
<b>AMINO ACIDS</b>					
Methionine %	0,48	0,4	0,32	0,38	0,34
Meth. - Cystine %	0,82	0,73	0,58	0,67	0,62
Lysine %	1,08	0,9	0,72	0,8	0,75
Threonin %	0,76	0,65	0,5	0,51	0,48
Tryptophan %	0,2	0,17	0,15	0,16	0,15
<b>ADDED VITAMINS (per 1 kg of feed)</b>					
A I. U.	12.000	10.000	10.000	10.000	10.000
D3 I. U.	2.500	2.500	2.000	2.000	2.000
B1 (Thiamine) mg	1	1	1	1,5	1,5
B2 (Riboflavin) mg	5	5	5	6	6
PanθοthenicAcid mg	10	8	6	8	8
Niacin mg	40	40	30	35	35
Cholinchlorid mg	600	500	500	500	500
E mg	20	20	20	20	20
K3 mg	2,5	2,5	2	2	2
B12 mg	0,02	0,015	0,01	0,015	0,015
Folic Acid mg	0,5	0,5	0,5-	0,5	0,5
B6 (Pyridoxine) mg	3	3	2	3	3
Biotin mg	0,15	0,1	0,05	0,1	0,1
<b>ADDED MINERALS (micrograms per 1 kg of feed)</b>					
Manganese (Mn)	70	70	70	80	80
Zinc (Zn)	50	50	50	50	50
Copper (Cu)	6	6	6	6	6
Iron (Fe)	60	60	60	60	60
Iodine (I)	1	1	1	1	1
Cobalt (Co)	0,25	0,25	0,25	0,25	0,25
Selenium (Se)	0,2	0,2	0,2	0,2	0,2

# 17. LIGHTING SCHEDULE FOR DOMINANT CZ - LAYERS - FINAL HYBRID

hours  
light  
day



Light Intensity W per 1m<sup>2</sup>





## PARAMETERS OF THE FINAL HYBRID DOMINANT BROWN D 102

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,40 kg
Feed consumption to 18 weeks per 1 females	6,10 kg
Body weight at 18 weeks - males	2,00 kg
Feed consumption to 18 weeks per 1 male	6,70 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	93%
Number of eggs (hen housed)	301
Number of eggs (hen day production)	308
Average egg-weight	63,5 g
Total Egg Mass for laying period	19,3 kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	149 g
Feed intake per 1 kg of eggs	2,33 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT BROWN D 102 is colour sexed layer programme through silver-red S/s alleles of Silver gene. One-day-old hens are brown and one-day-old cockerels are yellow.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT BROWN D 102

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	8	0.7	45.5
	22	30	2.8	49.5
	23	60	7.0	52.5
1	24	75	12.3	54.5
	25	87	18.4	55.5
	26	91	24.8	56.6
	27	92	31.2	57.7
2	28	92	37.6	58.8
	29	93	44.1	59.9
	30	92	50.5	60.8
	31	92	56.9	61.1
3	32	91	63.3	61.6
	33	91	69.7	61.9
	34	90	76.0	62.3
	35	90	82.3	62.4
4	36	90	88.6	62.6
	37	89	94.8	62.7
	38	89	101.0	62.9
	39	87	107.1	63.1
5	40	87	113.2	63.3
	41	86	119.2	63.5
	42	86	125.2	63.7
	43	85	131.2	63.9
6	44	84	137.2	64.2
	45	84	143.1	64.4
	46	83	148.9	64.6
	47	83	154.7	64.8
7	48	82	160.4	65.0
	49	81	166.1	65.2
	50	81	171.8	65.4
	51	80	177.4	65.6
8	52	79	182.9	65.8
	53	79	188.4	66.0
	54	78	193.9	66.2
	55	77	199.3	66.4
9	56	77	204.7	66.6
	57	76	210.0	66.8
	58	75	215.3	67.0
	59	74	220.5	67.1
10	60	73	225.6	67.2
	61	72	230.6	67.3
	62	71	235.6	67.4
	63	71	240.6	67.5
11	64	70	245.6	67.7
	65	69	250.4	67.8
	66	69	255.2	67.9
	67	68	260.0	68.0
12	68	67	264.7	68.1
	69	66	269.3	68.2
	70	65	273.9	68.3
	71	65	278.5	68.4
13	72	64	283.0	68.5
	73	63	287.4	68.6
	74	62	291.7	68.7
	75	61	296.0	68.8
14	76	60	300.2	68.9
	77	59	304.3	68.8
14 1/2	78	58	308.4	68.8

## PARAMETERS OF THE FINAL HYBRID DOMINANT BROWN D 192

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,50 kg
Feed consumption to 18 weeks per 1 females	6,30 kg
Body weight at 18 weeks - males	2,10 kg
Feed consumption to 18 weeks per 1 male	6,86 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	92%
Number of eggs (hen housed)	298
Number of eggs (hen day production)	306
Average egg-weight	62,5 g
Total Egg Mass for laying period	19,1 kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	151 g
Feed intake per 1 kg of eggs	2,35 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT BROWN D 192 is colour sexed layer programme through silver-red S/s alleles of Silver gene. One-day-old hens are brown and one-day-old cockerels are yellow.

## FINAL HYBRID PERFORMANCE OF DOMINANT BROWN D 192

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	7	0.5	47.2
	22	32	2.7	49.2
	23	53	6.4	51.3
1	24	72	11.5	53.2
	25	86	17.5	54.5
	26	91	23.9	55.6
	27	92	30.3	56.7
2	28	92	36.8	57.8
	29	92	43.3	58.9
	30	92	49.7	59.8
	31	92	56.1	60.1
3	32	91	62.5	60.6
	33	90	68.8	60.9
	34	90	75.1	61.2
	35	89	81.3	61.4
4	36	89	87.6	61.6
	37	89	93.8	61.8
	38	88	99.9	62.1
	39	88	106.1	62.3
5	40	87	112.2	62.5
	41	86	118.2	62.7
	42	86	124.2	62.9
	43	85	130.2	63.1
6	44	84	136.1	63.2
	45	84	141.2	63.4
	46	83	147.7	63.6
	47	83	153.6	63.8
7	48	82	159.3	64.0
	49	81	165.0	64.2
	50	81	170.1	64.4
	51	80	176.3	64.6
8	52	79	181.8	64.8
	53	79	187.3	65.0
	54	78	192.8	65.2
	55	77	198.2	65.4
9	56	77	203.6	65.6
	57	76	208.8	65.8
	58	75	214.1	66.0
	59	74	219.3	66.1
10	60	73	224.4	66.2
	61	72	229.5	66.3
	62	71	234.4	66.4
	63	71	239.4	66.5
11	64	70	244.3	66.7
	65	69	249.1	66.8
	66	68	253.9	66.9
	67	68	258.6	67.0
12	68	67	263.3	67.1
	69	66	267.9	67.2
	70	65	272.5	67.3
	71	64	277.0	67.4
13	72	64	281.5	67.5
	73	63	285.8	67.6
	74	62	290.2	67.7
	75	60	294.4	67.8
14	76	59	298.5	67.9
	77	58	302.5	68.0
14 1/2	78	57	306.4	68.1

## **PARAMETERS OF THE FINAL HYBRID DOMINANT BLACK D 109**

### **GROWING PERIOD: 1 - 18 WEEK OF AGE**

Livability	<i>95 - 97%</i>
Body weight at 18 weeks - females	<i>1,50 kg</i>
Feed consumption to 18 weeks per 1 females	<i>6,20 kg</i>
Body weight at 18 weeks - males	<i>2,10 kg</i>
Feed consumption to 18 weeks per 1 male	<i>6,80 kg</i>

### **LAYING PERIOD: 19 - 68 WEEK OF AGE**

Livability	<i>93 - 96 %</i>
Laying performance in 23 <sup>rd</sup> life-week	<i>50%</i>
Top of the laying performance at 29 - 30 week	<i>92%</i>
Number of eggs (hen housed)	<i>298</i>
Number of eggs (hen day production)	<i>306</i>
Average egg-weight	<i>62,5 g</i>
Total Egg Mass for laying period	<i>19,1 kg</i>
Feed intake per hen a day	<i>122 g</i>
Feed intake during the period per individual	<i>45 kg</i>
Feed intake per egg	<i>151 g</i>
Feed intake per 1 kg of eggs	<i>2,35 kg</i>
Weight of hen at the end of the period	<i>2,15 kg</i>
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT BLACK D 109 is colour sexed layer programme through barred/nonbarred B/b alleles of Bar gene. One-day-old cockerels have yellow spot on the head and one-day-old hens are without yellow spot on the head.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT BLACK D 109

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	7	0.5	47.2
	22	32	2.7	49.2
	23	53	6.4	51.3
1	24	72	11.5	53.2
	25	86	17.5	54.5
	26	91	23.9	55.6
	27	92	30.3	56.7
2	28	92	36.8	57.8
	29	92	43.3	58.9
	30	92	49.7	59.8
	31	92	56.1	60.1
3	32	91	62.5	60.6
	33	90	68.8	60.9
	34	90	75.1	61.2
	35	89	81.3	61.4
4	36	89	87.6	61.6
	37	89	93.8	61.8
	38	88	99.9	62.1
	39	88	106.1	62.3
5	40	87	112.2	62.5
	41	86	118.2	62.7
	42	86	124.2	62.9
	43	85	130.2	63.1
6	44	84	136.1	63.2
	45	84	141.2	63.4
	46	83	147.7	63.6
	47	83	153.6	63.8
7	48	82	159.3	64.0
	49	81	165.0	64.2
	50	81	170.1	64.4
	51	80	176.3	64.6
8	52	79	181.8	64.8
	53	79	187.3	65.0
	54	78	192.8	65.2
	55	77	198.2	65.4
9	56	77	203.6	65.6
	57	76	208.8	65.8
	58	75	214.1	66.0
	59	74	219.3	66.1
10	60	73	224.4	66.2
	61	72	229.5	66.3
	62	71	234.4	66.4
	63	71	239.4	66.5
11	64	70	244.3	66.7
	65	69	249.1	66.8
	66	68	253.9	66.9
	67	68	258.6	67.0
12	68	67	263.3	67.1
	69	66	267.9	67.2
	70	65	272.5	67.3
	71	64	277.0	67.4
13	72	64	281.5	67.5
	73	63	285.8	67.6
	74	62	290.2	67.7
	75	60	294.4	67.8
14	76	59	298.5	67.9
	77	58	302.5	68.0
14 1/2	78	57	306.4	68.1

## PARAMETERS OF THE FINAL HYBRID DOMINANT BLACK D 149

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,50 kg
Feed consumption to 18 weeks per 1 females	6,30 kg
Body weight at 18 weeks - males	2,10 kg
Feed consumption to 18 weeks per 1 male	6,80 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	91%
Number of eggs (hen housed)	290
Number of eggs (hen day production)	299
Average egg-weight	62,0 g
Total Egg Mass for laying period	18,50 kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	155 g
Feed intake per 1 kg of eggs	2,43 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT BLACK D 149 is colour sexed layer programme through barred/nonbarred B/b alleles of Bar gene. One-day-old cockerels have yellow spot on the head and one-day-old hens are without yellow spot on the head.



## THE FINAL HYBRID PERFORMANCE OF DOMINANT BLACK D 149

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	6	0.4	45.3
	22	31	2.6	46.5
	23	51	6.2	47.6
1	24	69	11.1	48.3
	25	84	17.0	49.9
	26	88	23.2	52.2
	27	90	29.5	54.5
2	28	90	35.8	56.3
	29	91	42.1	57.5
	30	90	48.4	58.1
	31	89	54.7	58.5
3	32	89	60.9	58.9
	33	88	67.1	59.3
	34	88	73.2	59.6
	35	87	79.3	59.9
4	36	87	85.4	60.1
	37	86	91.4	60.2
	38	86	97.4	60.3
	39	85	103.4	60.4
5	40	85	109.3	60.6
	41	84	115.2	60.8
	42	84	121.1	61.0
	43	83	126.9	61.1
6	44	82	132.7	61.3
	45	82	138.4	61.5
	46	81	144.1	61.7
	47	80	149.7	61.8
7	48	79	155.2	62.0
	49	78	160.7	62.1
	50	78	166.2	62.3
	51	77	171.6	62.4
8	52	77	177.0	62.5
	53	76	182.3	62.6
	54	76	187.6	62.8
	55	75	192.9	63.0
9	56	75	198.1	63.1
	57	74	203.3	63.3
	58	73	208.4	63.5
	59	72	213.5	63.6
10	60	71	218.5	63.7
	61	71	223.4	63.8
	62	70	228.3	63.9
	63	69	233.1	64.0
11	64	68	237.9	64.1
	65	67	242.6	64.2
	66	66	247.2	64.3
	67	65	251.8	64.4
12	68	64	256.3	64.6
	69	63	260.7	64.6
	70	63	265.1	64.7
	71	62	269.4	64.8
13	72	61	273.6	64.9
	73	60	277.8	65.0
	74	59	281.9	65.1
	75	58	286.9	65.2
14	76	57	290.1	65.3
	77	56	295.7	65.5
14 1/2	78	55	299.1	65.6

## PARAMETERS OF THE FINAL HYBRID DOMINANT BLUE D 107

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	<i>95 - 97%</i>
Body weight at 18 weeks - females	<i>1,50 kg</i>
Feed consumption to 18 weeks per 1 females	<i>6,30 kg</i>
Body weight at 18 weeks - males	<i>2,10 kg</i>
Feed consumption to 18 weeks per 1 male	<i>6,80 kg</i>

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	<i>93 - 96 %</i>
Laying performance in 23 <sup>rd</sup> life-week	<i>50%</i>
Top of the laying performance at 29 - 30 week	<i>91%</i>
Number of eggs (hen housed)	<i>290</i>
Number of eggs (hen day production)	<i>299</i>
Average egg-weight	<i>62,0 g</i>
Total Egg Mass for laying period	<i>18,50kg</i>
Feed intake per hen a day	<i>122 g</i>
Feed intake during the period per individual	<i>45 kg</i>
Feed intake per egg	<i>155 g</i>
Feed intake per 1 kg of eggs	<i>2,43 kg</i>
Weight of hen at the end of the period	<i>2,15 kg</i>
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT BLUE D 107 is colour sexed layer programme through barred/nonbarred B/b alleles of Bar gene .One-day-old cockerels have yellow spot on the head and-one-day old hens are without yellow spot on the head.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT BLUE D 107

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	6	0.4	45.3
	22	31	2.6	46.5
	23	51	6.2	47.6
1	24	69	11.1	48.3
	25	84	17.0	49.9
	26	88	23.2	52.2
	27	90	29.5	54.5
2	28	90	35.8	56.3
	29	91	42.1	57.5
	30	90	48.4	58.1
	31	89	54.7	58.5
3	32	89	60.9	58.9
	33	88	67.1	59.3
	34	88	73.2	59.6
	35	87	79.3	59.9
4	36	87	85.4	60.1
	37	86	91.4	60.2
	38	86	97.4	60.3
	39	85	103.4	60.4
5	40	85	109.3	60.6
	41	84	115.2	60.8
	42	84	121.1	61.0
	43	83	126.9	61.1
6	44	82	132.7	61.3
	45	82	138.4	61.5
	46	81	144.1	61.7
	47	80	149.7	61.8
7	48	79	155.2	62.0
	49	78	160.7	62.1
	50	78	166.2	62.3
	51	77	171.6	62.4
8	52	77	177.0	62.5
	53	76	182.3	62.6
	54	76	187.6	62.8
	55	75	192.9	63.0
9	56	75	198.1	63.1
	57	74	203.3	63.3
	58	73	208.4	63.5
	59	72	213.5	63.6
10	60	71	218.5	63.7
	61	71	223.4	63.8
	62	70	228.3	63.9
	63	69	233.1	64.0
11	64	68	237.9	64.1
	65	67	242.6	64.2
	66	66	247.2	64.3
	67	65	251.8	64.4
12	68	64	256.3	64.6
	69	63	260.7	64.6
	70	63	265.1	64.7
	71	62	269.4	64.8
13	72	61	273.6	64.9
	73	60	277.8	65.0
	74	59	281.9	65.1
	75	58	286.9	65.2
14	76	57	290.1	65.3
	77	56	295.7	65.5
14 1/2	78	55	299.1	65.6

## PARAMETERS OF THE FINAL HYBRID DOMINANT SUSSEX D 104

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,50 kg
Feed consumption to 18 weeks per 1 females	6,30 kg
Body weight at 18 weeks - males	2,10 kg
Feed consumption to 18 weeks per 1 male	6,80 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	91%
Number of eggs (hen housed)	290
Number of eggs (hen day production)	299
Average egg-weight	62,0 g
Total Egg Mass for laying period	18,50kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	155 g
Feed intake per 1 kg of eggs	2,43 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT SUSSEX D 104 is feather sexed layer programme through slow - fast feather K / k alleles of K gene. One-day-old hens are fast feathering and one-day-old cockerels are slow feathering.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT SUSSEX D 104

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	6	0.4	45.3
	22	31	2.6	46.5
	23	51	6.2	47.6
1	24	69	11.1	48.3
	25	84	17.0	49.9
	26	88	23.2	52.2
	27	90	29.5	54.5
2	28	90	35.8	56.3
	29	91	42.1	57.5
	30	90	48.4	58.1
	31	89	54.7	58.5
3	32	89	60.9	58.9
	33	88	67.1	59.3
	34	88	73.2	59.6
	35	87	79.3	59.9
4	36	87	85.4	60.1
	37	86	91.4	60.2
	38	86	97.4	60.3
	39	85	103.4	60.4
5	40	85	109.3	60.6
	41	84	115.2	60.8
	42	84	121.1	61.0
	43	83	126.9	61.1
6	44	82	132.7	61.3
	45	82	138.4	61.5
	46	81	144.1	61.7
	47	80	149.7	61.8
7	48	79	155.2	62.0
	49	78	160.7	62.1
	50	78	166.2	62.3
	51	77	171.6	62.4
8	52	77	177.0	62.5
	53	76	182.3	62.6
	54	76	187.6	62.8
	55	75	192.9	63.0
9	56	75	198.1	63.1
	57	74	203.3	63.3
	58	73	208.4	63.5
	59	72	213.5	63.6
10	60	71	218.5	63.7
	61	71	223.4	63.8
	62	70	228.3	63.9
	63	69	233.1	64.0
11	64	68	237.9	64.1
	65	67	242.6	64.2
	66	66	247.2	64.3
	67	65	251.8	64.4
12	68	64	256.3	64.6
	69	63	260.7	64.6
	70	63	265.1	64.7
	71	62	269.4	64.8
13	72	61	273.6	64.9
	73	60	277.8	65.0
	74	59	281.9	65.1
	75	58	286.9	65.2
14	76	57	290.1	65.3
	77	56	295.7	65.5
14 1/2	78	55	299.1	65.6

## PARAMETERS OF THE FINAL HYBRID DOMINANT BARRED D 959

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,50 kg
Feed consumption to 18 weeks per 1 females	6,30 kg
Body weight at 18 weeks - males	2,10 kg
Feed consumption to 18 weeks per 1 male	6,80 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	92%
Number of eggs (hen housed)	298
Number of eggs (hen day production)	306
Average egg-weight	62,5 g
Total Egg Mass for laying period	19,1 kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	151 g
Feed intake per 1 kg of eggs	2,35 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT Barred D -959 is feather sexed layer programme through slow - fast feather K / k alleles of K gene. One-day-old hens are fast feathering and one-day-old cockerels are slow feathering.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT BARRED D 959

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	7	0.5	47.2
	22	32	2.7	49.2
	23	53	6.4	51.3
1	24	72	11.5	53.2
	25	86	17.5	54.5
	26	91	23.9	55.6
	27	92	30.3	56.7
2	28	92	36.8	57.8
	29	92	43.3	58.9
	30	92	49.7	59.8
	31	92	56.1	60.1
3	32	91	62.5	60.6
	33	90	68.8	60.9
	34	90	75.1	61.2
	35	89	81.3	61.4
4	36	89	87.6	61.6
	37	89	93.8	61.8
	38	88	99.9	62.1
	39	88	106.1	62.3
5	40	87	112.2	62.5
	41	86	118.2	62.7
	42	86	124.2	62.9
	43	85	130.2	63.1
6	44	84	136.1	63.2
	45	84	141.2	63.4
	46	83	147.7	63.6
	47	83	153.6	63.8
7	48	82	159.3	64.0
	49	81	165.0	64.2
	50	81	170.1	64.4
	51	80	176.3	64.6
8	52	79	181.8	64.8
	53	79	187.3	65.0
	54	78	192.8	65.2
	55	77	198.2	65.4
9	56	77	203.6	65.6
	57	76	208.8	65.8
	58	75	214.1	66.0
	59	74	219.3	66.1
10	60	73	224.4	66.2
	61	72	229.5	66.3
	62	71	234.4	66.4
	63	71	239.4	66.5
11	64	70	244.3	66.7
	65	69	249.1	66.8
	66	68	253.9	66.9
	67	68	258.6	67.0
12	68	67	263.3	67.1
	69	66	267.9	67.2
	70	65	272.5	67.3
	71	64	277.0	67.4
13	72	64	281.5	67.5
	73	63	285.8	67.6
	74	62	290.2	67.7
	75	60	294.4	67.8
14	76	59	298.5	67.9
	77	58	302.5	68.0
14 1/2	78	57	306.4	68.1



## PARAMETERS OF THE FINAL HYBRID DOMINANT AMBER D 843

### GROWING PERIOD: 1 - 18 WEEK OF AGE

Livability	95 - 97%
Body weight at 18 weeks - females	1,50 kg
Feed consumption to 18 weeks per 1 females	6,30 kg
Body weight at 18 weeks - males	2,10 kg
Feed consumption to 18 weeks per 1 male	6,80 kg

### LAYING PERIOD: 19 - 68 WEEK OF AGE

Livability	93 - 96 %
Laying performance in 23 <sup>rd</sup> life-week	50%
Top of the laying performance at 29 - 30 week	92%
Number of eggs (hen housed)	298
Number of eggs (hen day production)	306
Average egg-weight	62,5 g
Total Egg Mass for laying period	19,1 kg
Feed intake per hen a day	122 g
Feed intake during the period per individual	45 kg
Feed intake per egg	151 g
Feed intake per 1 kg of eggs	2,35 kg
Weight of hen at the end of the period	2,15 kg
Colour of the egg shell	<i>brown</i>
Temperament	<i>quiet</i>

DOMINANT AMBER D -843 is feather sexed layer programme through slow - fast feather K / k alleles of K gene. One-day-old hens are fast feathering and one-day-old cockerelss are slow feathering.

## THE FINAL HYBRID PERFORMANCE OF DOMINANT AMBER D 843

-PER AVERAGE HEN

LAYING PERIOD	AGE IN WEEKS	% LAY	NUMBER OF EGGS cumul.	AVERAGE EGG WEIGHT in grams
	21	7	0.5	47.2
	22	32	2.7	49.2
	23	53	6.4	51.3
1	24	72	11.5	53.2
	25	86	17.5	54.5
	26	91	23.9	55.6
	27	92	30.3	56.7
2	28	92	36.8	57.8
	29	92	43.3	58.9
	30	92	49.7	59.8
	31	92	56.1	60.1
3	32	91	62.5	60.6
	33	90	68.8	60.9
	34	90	75.1	61.2
	35	89	81.3	61.4
4	36	89	87.6	61.6
	37	89	93.8	61.8
	38	88	99.9	62.1
	39	88	106.1	62.3
5	40	87	112.2	62.5
	41	86	118.2	62.7
	42	86	124.2	62.9
	43	85	130.2	63.1
6	44	84	136.1	63.2
	45	84	141.2	63.4
	46	83	147.7	63.6
	47	83	153.6	63.8
7	48	82	159.3	64.0
	49	81	165.0	64.2
	50	81	170.1	64.4
	51	80	176.3	64.6
8	52	79	181.8	64.8
	53	79	187.3	65.0
	54	78	192.8	65.2
	55	77	198.2	65.4
9	56	77	203.6	65.6
	57	76	208.8	65.8
	58	75	214.1	66.0
	59	74	219.3	66.1
10	60	73	224.4	66.2
	61	72	229.5	66.3
	62	71	234.4	66.4
	63	71	239.4	66.5
11	64	70	244.3	66.7
	65	69	249.1	66.8
	66	68	253.9	66.9
	67	68	258.6	67.0
12	68	67	263.3	67.1
	69	66	267.9	67.2
	70	65	272.5	67.3
	71	64	277.0	67.4
13	72	64	281.5	67.5
	73	63	285.8	67.6
	74	62	290.2	67.7
	75	60	294.4	67.8
14	76	59	298.5	67.9
	77	58	302.5	68.0
14 1/2	78	57	306.4	68.1

D - 149



PARENTS

♀

♂

HYBRID

D - 104



PARENTS

♀

♂

HYBRID

D - 959



PARENTS

♀

♂

HYBRID

D - 843



PARENTS

♀

♂

HYBRID



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