



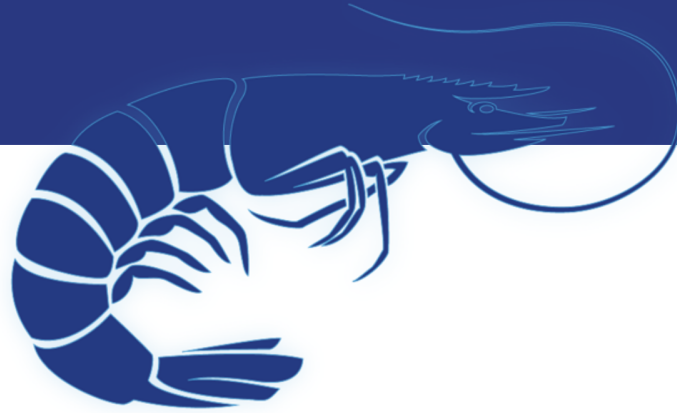
SPF



ADG (AVERAGE  
DAILY GROWTH)



PRODUCTIVITY



## BLUE GENETICS TEXAS LINE

FAST AND CONSISTENT  
GROWTH WITH OUR  
NEWEST GENERATION

TECHNICAL RECOMENDATIONS TO ACHIEVE THE BEST PERFORMANCE OF THE  
BLUE GENETICS TEXAS LINE (GROWTH LINE) in the GROW OUT FARMS

The Blue Genetics Growth Line, called the Texas line, is a very fast growth line that once reaching 1 gram of weight in farming, could grow between 3 to 4 grams weekly average, with peak growth up to 5 or 6 grams in some weeks.

It is a line designed to be stocked in high or low density ponds in a wide range of salinities, under bio-secure conditions and free of pathogens, that will obtain its maximum genetic potential and feed conversion efficiency with good management practices as well as with a consistent feeding throughout the farming period.

As this is a unique growth line we want to provide our clients with the following recommendations, which together with their farming experience and technical skills, will help to achieve the best results in terms of growth, survival and Food Conversion Ratio.

It is important to mention that these protocols and feeding tables are based on facilities with high biosecurity standards. **These recommendations should only be used as a reference.** For the most part good results will depend on the technical and observation experience of the staff and the characteristics of the facilities.

### **HANDLING ON THE FARM.**

To obtain optimum performance of the Texas line on the farm, the recommended feeding should be based on the table below. It is advisable to spread the feeding over 2 or more servings per day.

It is recommended that the grow out environment remains within the following parameters: Salinity range of 0-35 ppm with optimum performance between 15-25 ppm, Temperature range 28-34 degrees Celsius with optimum performance between 30-32, PH of 7.2-8.5 with optimum performance between 7.5 and 8.0, Alkalinity range of 80-180 with optimum performance between 120-140.

## Guide to feeding the Texas Line

Grow-out		Feed	Grow-out		Feed	Grow-out		Feed
Weight in grams	Body weight %	Pellet size in mm	Weight in grams	Body weight %	Pellet size in mm	Weight in grams	Body weight %	Pellet size in mm
0.0031	150.0	0.3-0.5	0.1	25.0	1.2	20.0	5.0	2.0
0.0032	150.0	0.3-0.5	0.2	20.0	1.2	21.0	4.9	2.0
0.0034	150.0	0.3-0.5	0.2	20.0	1.2	22.0	4.8	2.0
0.0036	150.0	0.3-0.5	0.3	20.0	1.2	23.0	4.6	2.0
0.0038	150.0	0.3-0.5	0.3	19.0	1.5	24.0	4.5	2.0
0.0040	150.0	0.3-0.5	0.4	18.0	1.5	25.0	4.3	2.0
0.0042	150.0	0.3-0.5	0.4	17.0	1.5	26.0	4.2	2.0
0.0044	150.0	0.6-0.8	0.5	17.0	1.5	27.0	4.1	2.0
0.0046	150.0	0.6-0.8	0.5	15.0	1.5	28.0	3.9	2.0
0.0049	150.0	0.6-0.8	0.6	13.0	1.5	29.0	3.8	2.0
0.0051	150.0	0.6-0.8	0.8	11.0	1.5	30.0	3.6	2.0
0.0054	150.0	0.6-0.8	1.0	9.9	1.5	31.0	3.5	2.0
0.0057	125.0	0.6-0.8	2.0	9.4	1.5	32.0	3.3	2.0
0.0060	125.0	0.8-1.2	3.0	8.9	1.5	33.0	3.2	2.0
0.0063	125.0	0.8-1.2	4.0	8.4	1.5	34.0	3.1	2.0
0.0066	125.0	0.8-1.2	5.0	8.1	1.5	35.0	2.9	2.0
0.0070	125.0	0.8-1.2	6.0	7.9	1.5	36.0	2.8	2.0-2.5
0.0074	125.0	0.8-1.2	7.0	7.6	1.5	37.0	2.6	2.0-2.5
0.0077	125.0	0.8-1.2	8.0	7.4	1.5	38.0	2.5	2.0-2.5
0.0081	125.0	0.8-1.2	9.0	7.1	1.5	39.0	2.3	2.0-2.5
0.0086	100.0	0.8-1.2	10.0	6.2	1.5-2.0	40.0	2.2	2.0-2.5
0.0090	100.0	0.8-1.2	11.0	6.3	1.5-2.0	41.0	2.1	2.0-2.5
0.0095	100.0	0.8-1.2	12.0	6.2	1.5-2.0	42.0	1.9	2.0-2.5
0.0100	100.0	0.8-1.2	13.0	6.0	1.5-2.0	43.0	1.8	2.0-2.5
0.0150	100.0	0.8-1.2	14.0	5.9	1.5-2.0	44.0	1.7	2.0-2.5
0.0200	60.0	0.8-1.2	15.0	5.8	1.5-2.0	45.0	1.6	2.0-2.5
0.0300	60.0	0.8-1.2	16.0	5.6	1.5-2.0	46.0	1.6	2.0-2.5
0.0400	50.0	0.8-1.2	17.0	5.5	1.5-2.0	47.0	1.5	2.5-3.0
0.0600	40.0	0.8-1.2	18.0	5.3	1.5-2.0	48.0	1.5	2.5-3.0
0.0800	30.0	0.8-1.2	19.0	5.2	1.5-2.0	49.0	1.5	2.5-3.0

## USE OF FEEDING TRAYS:

To optimize the use of feed in shrimp production units, the use of controls is recommended to identify the correct consumption of the animal throughout the different phases of culture. The shape and dimensions of the control (feeding tray) may vary depending on the availability of materials for its construction, among the most common are square or circular trays, with dimensions of 50x50 cm and a height of at least 10 cm for the square ones, or 50 cm in diameter with 10 cm in height for the circular ones.

The number of controls or feeding trays depends on the dimensions of the pond to be operated, as well as the density based on stocking. There must be at least 4 trays per hectare for Asian models. The amount of feed that should be applied to each tray is related to the density; 100 grams are recommended for every 10 shrimp per meter. The feed for the tray should be placed just after supplying the corresponding feed to the pond. Tray monitoring should be done after at least 2 hours have elapsed. During the monitoring of the feed consumption in the tray, the following codes should be considered for the corresponding adjustment of the feed in the pond:

<b>Codes for feed consumption in the feeding tray</b>	
<b>Assigned code</b>	<b>% Feed in tray</b>
0	0
1	<12.5%
2	Between 12.5% to 40%
3	>40%

For the adjustment of the feed in the pond, the readings of the codes described in previous table must be considered. The adjustments must be calculated for every pond by adding the codes obtained from each monitoring tray, to be divided by the number of trays to obtain an average feed consumption code for the pond. For the adjustment of the feed, the average code must be valued in the next table, where the parameters of increase, balance and reduction of the feed are indicated.

<b>Feed adjustment for accelerated growth</b>		
<b>Average codes</b>	<b>% Feed adjustment</b>	<b>Feed adjustment condition</b>
0	30%	<i>Increase</i>
0.16	22%	<i>Increase</i>
0.33	12%	<i>Increase</i>
<b>0.5</b>	<b><i>Equilibrium 0</i></b>	<b><i>Unchanged</i></b>
0.66	-5.00%	<i>Decrease</i>
0.83	-8.00%	<i>Decrease</i>
1	-10.00%	<i>Decrease</i>
1.16	-12.00%	<i>Decrease</i>
1.33	-13.00%	<i>Decrease</i>
1.5	-14.00%	<i>Decrease</i>
1.66	-15.00%	<i>Decrease</i>
1.83	-18.00%	<i>Decrease</i>
2	-20.00%	<i>Decrease</i>
2.16	-21.00%	<i>Decrease</i>
2.33	-23.00%	<i>Decrease</i>
2.5	-24.00%	<i>Decrease</i>
2.66	-25.00%	<i>Decrease</i>
2.83	-28.00%	<i>Decrease</i>
3	-30.00%	<i>Decrease</i>