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PERFORMANCE OF JUNDI(*Rhandia quelen*), IN DIFFERENT CULTIVATION SYSTEMS FOR THE NORTH COAST ZONE OF SANTA CATARINA, BRAZIL.

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The jundi(Rhandia quelen), a fish native inhabitant of most of the rivers, lakes and ponds of Santa Catarina, belongs to the order Siluriformes, family Pimelodidae, gender Rhandia. The objective of the study was to evaluate the performance of this native fish before the cultivation systems more used in Santa Catarina.

The experiment was led in the experimental field of fish farming of CamboriCEPC-EPAGRI during the months of February to May of 2007, where 11 dug earth ponds of 300m2 were used here, being three representing a jundimonocultivation with density of 1,5p /m2, three representing a jundiand tilbicultivation with density of 3p/m2 in the proportion of 50% for each species, three representing a policultivation of carps, tiland jundiwith density of 3p/m2 being 60% carps, 30% tiland 10% jundiand two ponds, where they were installed six hapas in each, representing the cultivations of high density 50 and 100 p/m3. The biometry were carried out monthly with 10% of the individuals of each unit of production for maintenance in the ration supply, being her finishes biometry accomplished with 100% of the survivors of each nursery. After the last biometry were calculated the values of the total weight gain, daily weight gain, biomass gain, survival rate, specific growth rate and feed conversion for each cultivation system being the results compared statistically through a variance (ANOVA) analysis with significant of 5%.

The tax of dissolved oxygen and temperature were monitored daily while the pH was weekly measured. For the jundithe cultivation system that presented better acting in the group of the parameters analyzed (Table 1) was the monocultivation. The policultivation system presented good performance in growth, however they didn't obtain good survival rates. The systems of high densities presented low incomes in spite of the high survival rate. During some periods of the cultivation, the temperature was above the ideal for a good performance of the species, could have affected the income negatively.

	Monocultivation	Bicultivation	Policultivation	Hapas 50p	Hapas 100 p
Total weigh Gain g.	34,70 ±1,18ª	26,23±1,04b	46,07±1.90c	16,47±0,90d	15,93±0,76d
Daily weight Gain g.	0,418 ±0,014a	0,249±0,010b	0.438±0,018a	0,156±0,008c	0,152±0,007c
Biomass Gain(g/m2)	0,1156 ± 0,004ª	0,087 ± 0,003b	0,157 ± 0,006c	16,47 ± 0,902d	15,938 ± 0,762d
Survival (%)	54,07 ±1,77a	61,65±1,69b	20,86±0,91c	95,66±0,54d	98±0,46d
Specific Growth (% / day))	3,02 ±0,05a	2,04±0,04b	2,29±0,04c	0,74±0,04d	1,28±0,04e
Feed					
Conversion	1,18 ±0,01a	1,85±0,08b	1,58±0,03c	6,13±0,11d	2,29±0,06e
Ph	7,61±0,70a	7,7±0,79a	7,65±0,71a	7,86±0,44a	7,74±0,50 ^a
Dissolved O2	8,51±3,42a	9,63±3,28a	8,97±3,37a	10,46±3,72a	9,27±3,26a
Temperature	27,21±4,21a	27,16±4,28a	27.02±4.20a	27,065±4,11a	27,061±4,25 ^a

Different letters in the same line indicate significant difference by the Tukey test (p.0,05).