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Table 4 - 1 Carbon and Nitrogen contents and energy equivalent of materials

	Carbon (mg g ⁻¹ dry wt)	Nitrogen (mg g ⁻¹ dry wt)	Energy (KJ g ⁻¹ dry wt)
Food	222.93 ± 9.41 (n=12)	13.94 ± 1.16 (n=12)	11.661 ± 0.423 (n=6)
Soil	22.51 ± 2.15 (n=12)	1.64 ± 0.25 (n=12)	0.887 ± 0.314 (n=7)
Animal tissue	-----	-----	21.133 ± 0.916 (n=7)
Litter			4.298 × 4.184 [*]

* : Golley (1969)

Table 4 - 2 Comparison of some metabolic rate of two *Amynthas* species
between field and culture

Species	<i>Amynthas</i> sp. (H-1)		<i>Amynthas vittatus</i>	
	Field	Culture	Field	Culture
Condition	Field	Culture	Field	Culture
Maturation period (day)	ca 100	33 - 60	ca 100	----
(Field/Culture)		(1.5-3.0)		(-----)
Maximum body weight (mg fresh wt)	1922	3909-4515 (av. 4312)	6006	5807-7374 (av. 6591)
(Field/Culture)		(0.446)		(0.91)
Carbon content in consumed material (mg g ⁻¹ dry wt)	72.15	93.66	116.8	127.39
(Field/Culture)		(0.770)		(0.917)
Nitrogen content in consumed material (mg g ⁻¹ dry wt)	6.42	6.01	9.9	8.08
(Field/Culture)		(1.068)		(1.225)
Fecal pellet production (Field/Culture)		(1)		(1)

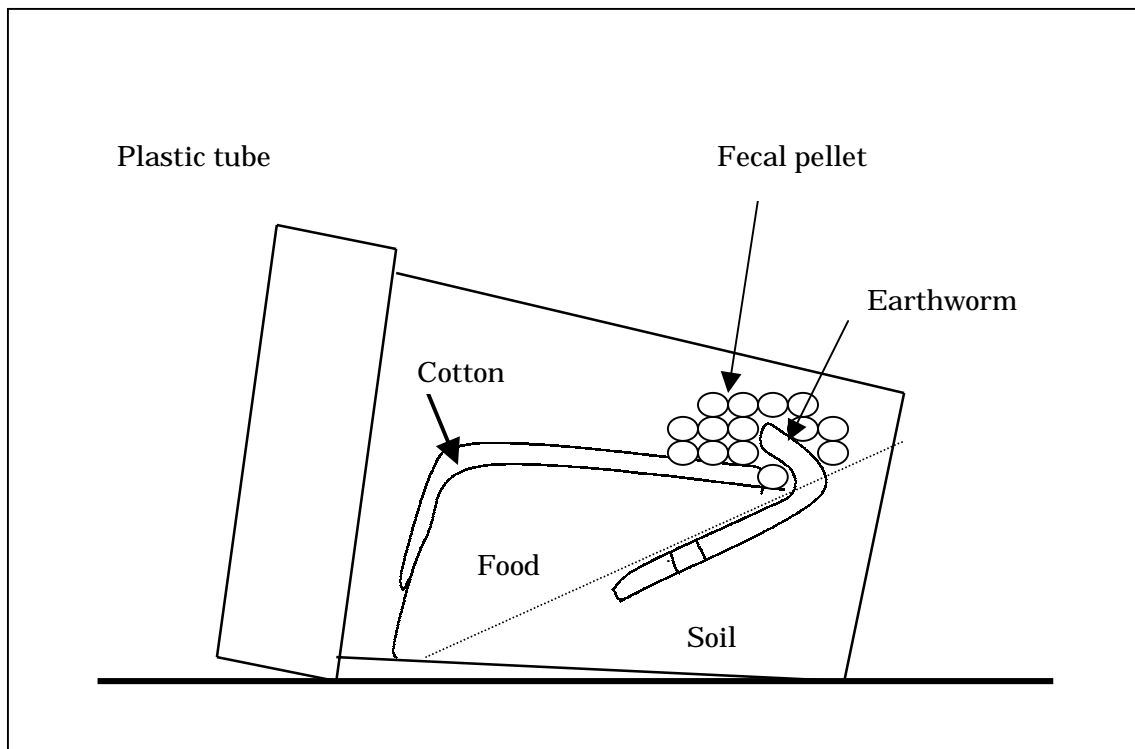


Fig 4-1. Shema of the culture container

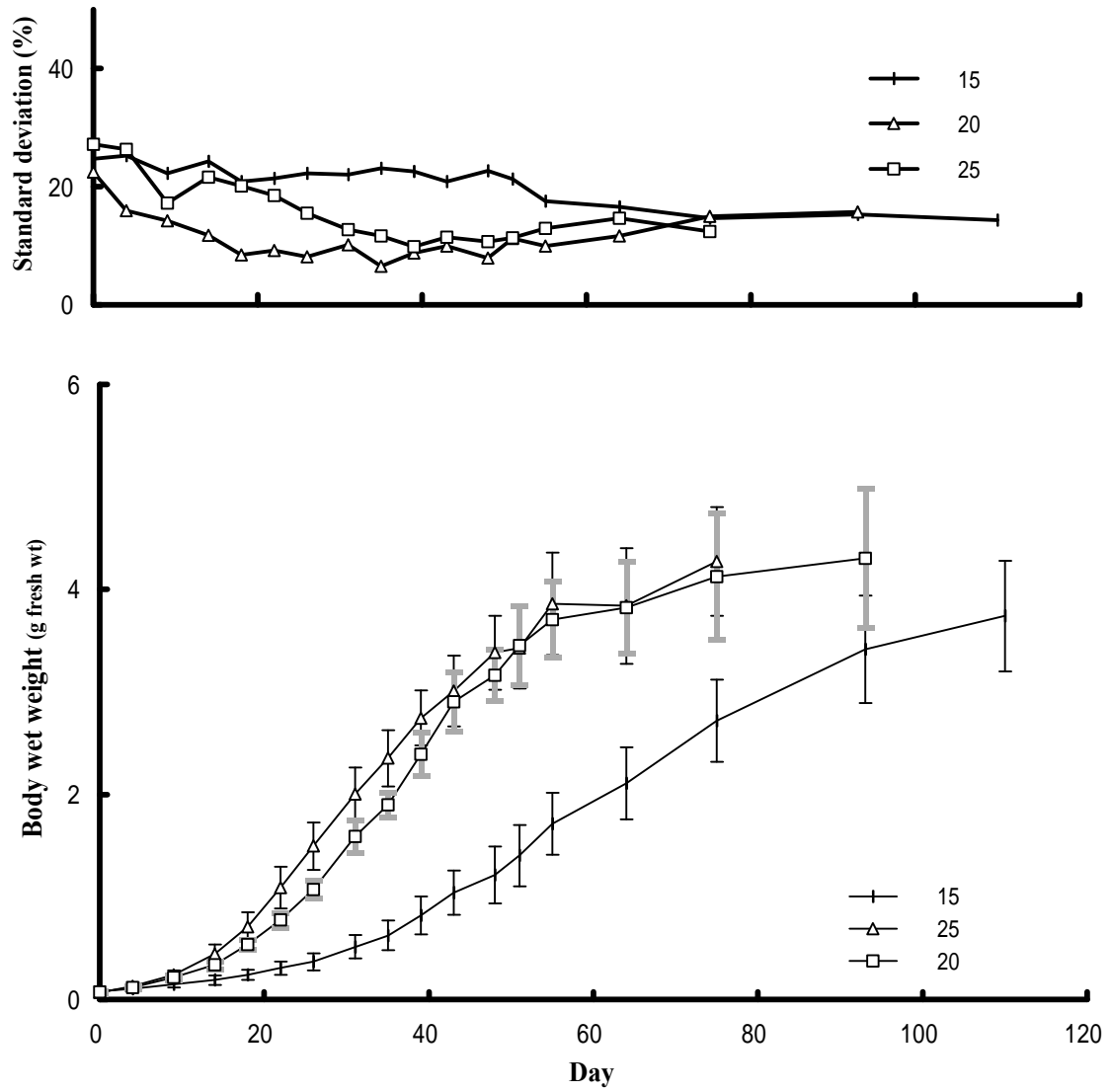


Fig.4-2. Growth increment and the standard deviation (S^2/x) for the weight of individuals of different ages in days

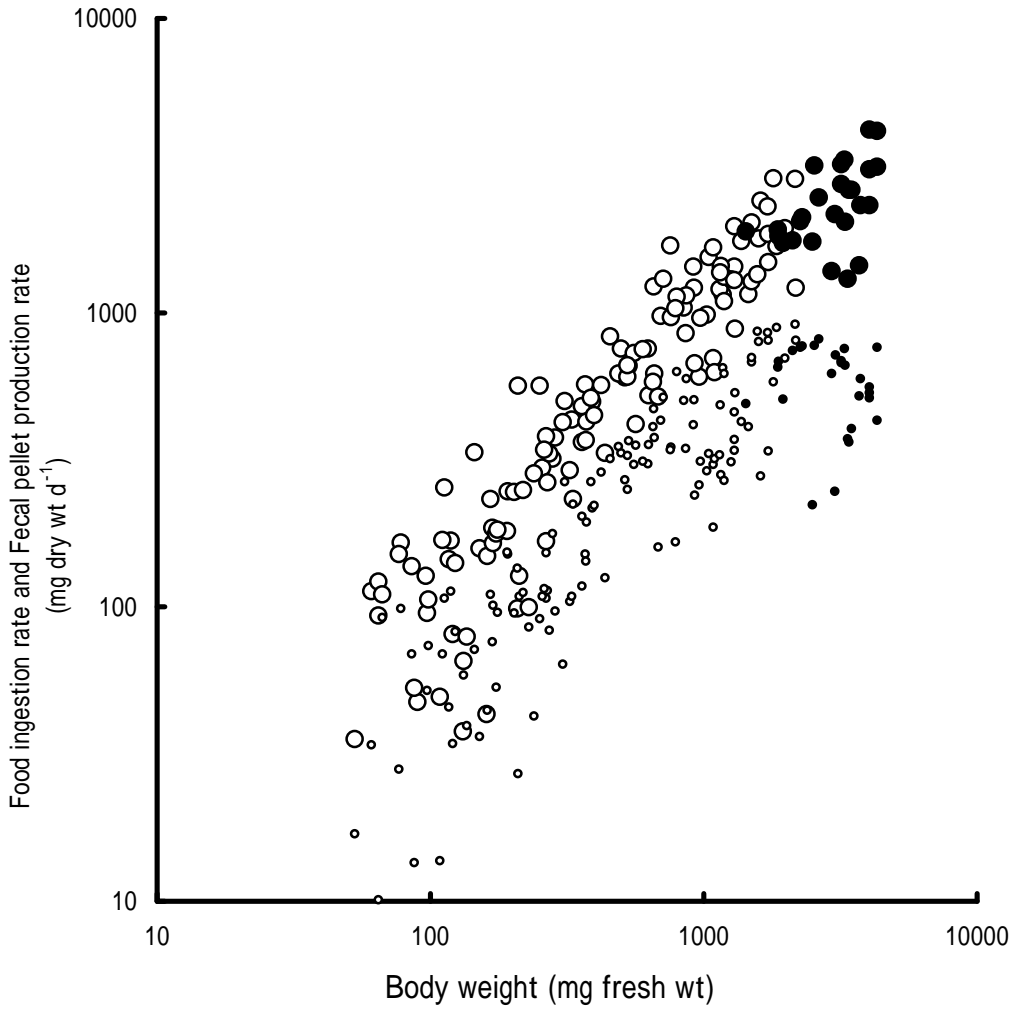


Fig.4-3. Daily fecal pellet production rate and daily food ingestion rate of the worms cultured at 15 °C.

- fecal pellet production rate of immature worms
- fecal pellet production rate of mature worms
- food ingestion rate of immature worms
- food ingestion rate of mature worms

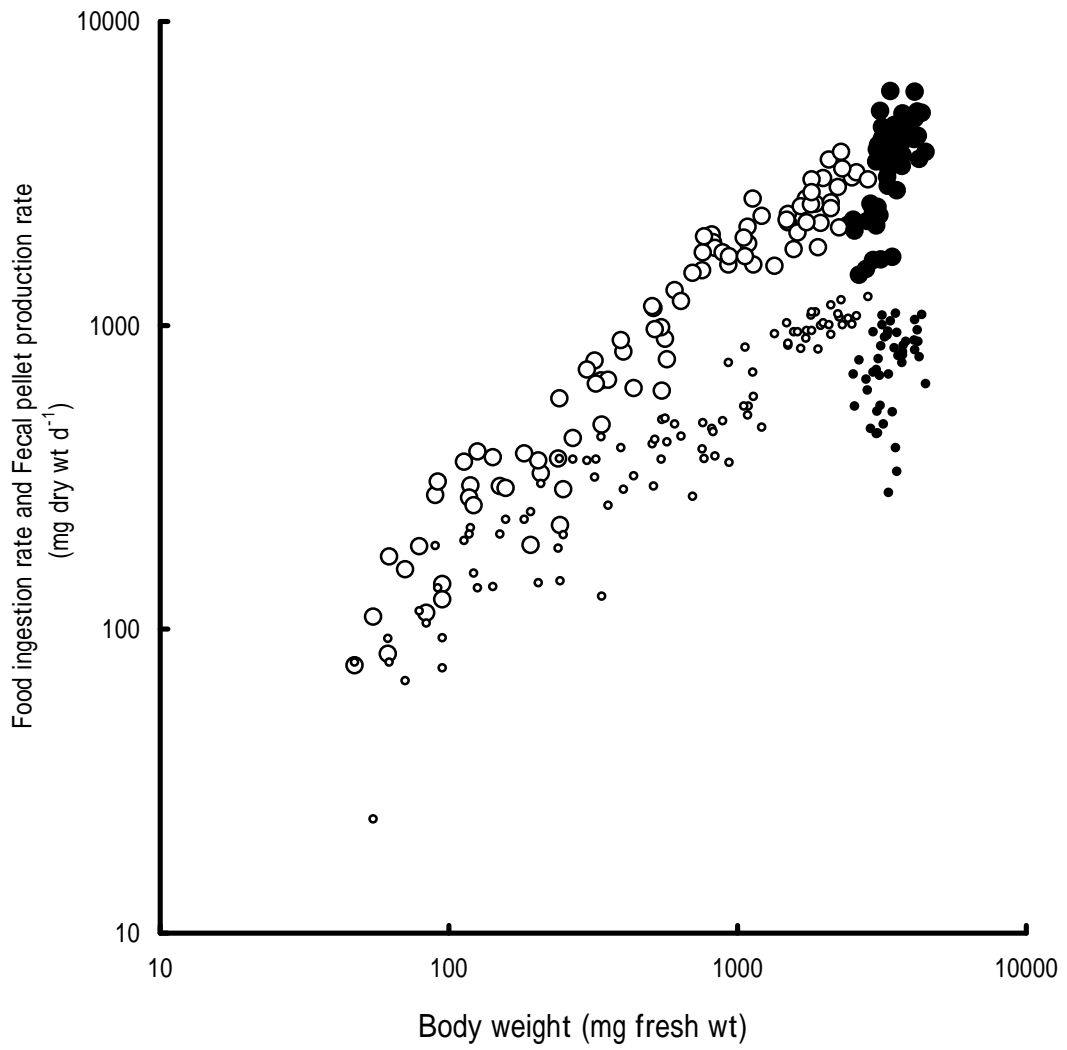


Fig.4-4. Daily fecal pellet production rate and daily food ingestion rate of the worms cultured at 20 °C.

- fecal pellet production rate of immature worms
- fecal pellet production rate of mature worms
- food ingestion rate of immature worms
- food ingestion rate of mature worms

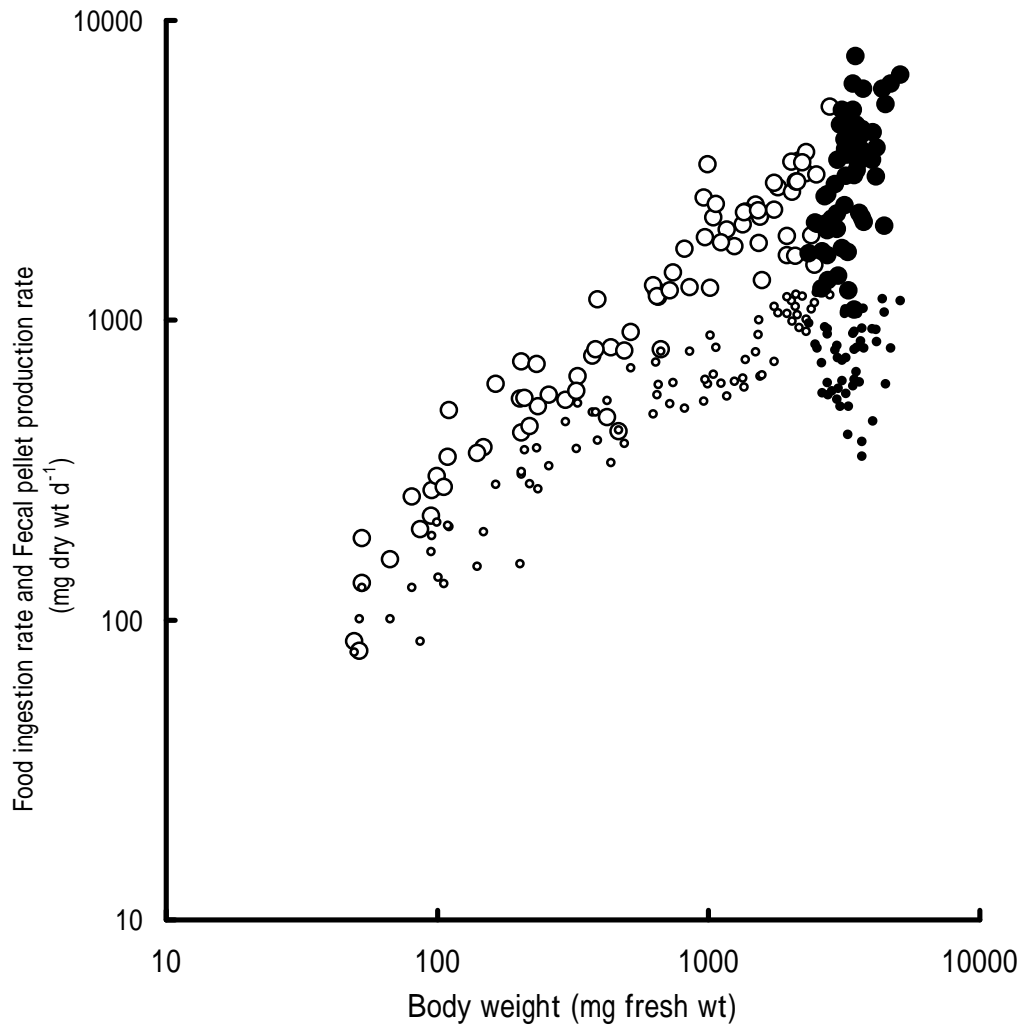


Fig.4-5. Daily fecal pellet production rate and daily food ingestion rate of the worms cultured at 25 °C.

- fecal pellet production rate of immature worms ◦ food ingestion rate of immature worms
- fecal pellet production rate of mature worms ● food ingestion rate of mature worms

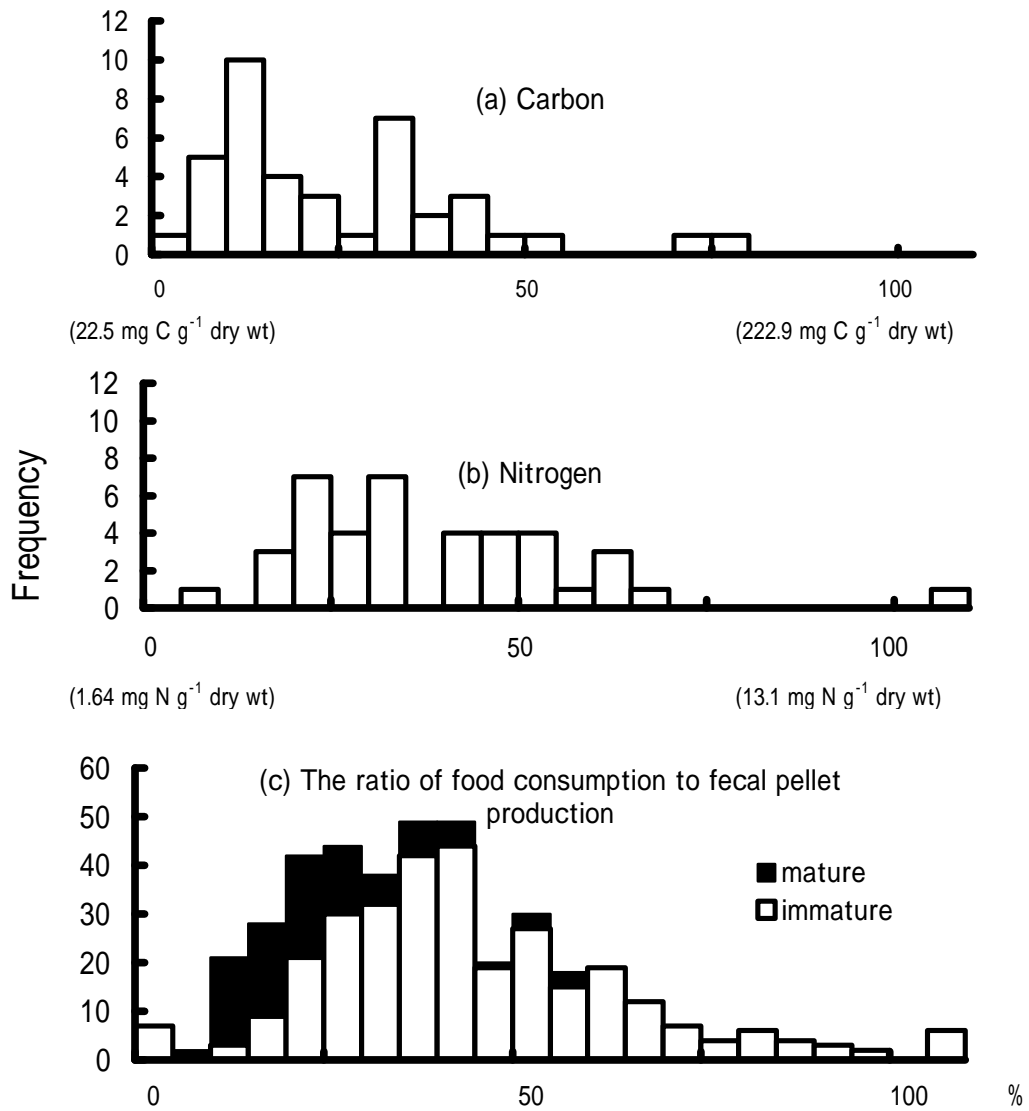


Fig.4-6. Nutrient contents of the materials in alimental canal of the pre-mature worms collected in field.

a, Carbon content; b, Nitrogen content; c, The ratio of food consumption to fecal pellet production, of the cultured worms. In Lowest figure, the open area indicates the contribution by immature worms and the black area indicates the contribution by mature worms.