

Comment on any pattern seen in graph.
PART C

Table of Energy/Biomass Flow from Plants to Butterfly Larvae

	Day 1	Day 3	3 day finals, etc.
Wet mass of Brussels sprouts	30g	11g	Grams consumed <u>19g</u>
Plant % biomass (calculate for Day 3)	2.2/11	Same as Day 3	<u>20%</u>
Plant energy (wet mass X % biomass X 4.35 kcal)	26.1	9.57	KCals consumed per 10 larvae <u>16.53 Kcal/10 larvae</u>
Plant energy consumed per larvae	X	X	KCals consumed per 1 larva <u>1.65 Kcal/larvae</u>
Wet mass of 10 larvae	0.3g	1.8g	Grams gained <u>1.5g</u>
Wet mass per individual	0.03g	0.18g	Grams gained per larva <u>0.15g</u>
Larvae % biomass	Same as Day 3	0.15	<u>0.15g</u>
Energy production per individual (individual wet mass X % biomass X 5.5 kcal/g)	0.025	0.15	KCals gained per larvae <u>0.13 Kcal/larvae</u>
Dry mass of frass from 10 larvae	X	X	0.5g <u>0.5g</u>
Frass energy (frass mass X 4.75 kcal/g)	X	X	<u>2.375 Kcal</u> 2.4
Energy of frass from 1 larva	X	X	<u>0.2375 Kcal</u> 0.24
Respiration: how much of total energy consumed was lost to respiration?	X	X	Consumed 1.65 Kcal gained/larvae - 0.13 frass - 0.24 <u>1.28</u>

Part D: Summary Questions

1. State the conclusions from this investigation in no more than three sentences.
2. Construct a diagram modeling the results of this investigation (similar to earlier diagrams). Label all arrows using actual data (numbers) from investigation.
3. Suggest a biological question raised by this investigation. Describe how your team would perform a new investigation to answer this question

Answers Energy Dynamics Lab

David Kirk



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