Black Solder Fly Production at Hermetia in Germany



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Outline

≻Back ground

Production Units

≻Fly house

≻Egg collection & incubation

► Larvae rearing

≻Harvesting

≻Processing and Marketing

Background

≻Owned by 2 Katz Brothers

➢ Heinrich and Peter

- Situated in Baruth, South of Berlin , Germany
- ➢Founded in 2005as a spin-off from Katz Biotech AG (KBAG)
- KBAG is the leading German company in rearing of beneficial insects and mites for biological pest control
 - Insect Technology Centre of the Katz Group at Berlin
- ➢ Has around 8 professional workers

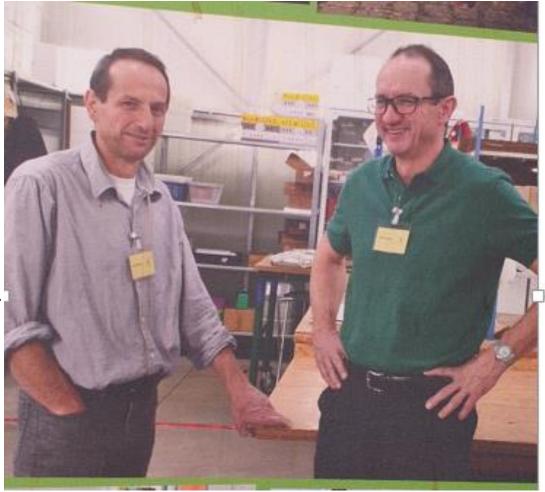


Figure 1: Heinrich (R) and Peter Katz

Production Units

≻Fly house

≻Egg incubation unit

Larvae rearing unit
 Bioreactors method
 PVC boxes method

≻Harvesting and Processing unit



Figure 2: Project team facility tour

Fly house : Pupa collection

Pupa is sorted, weighed and then put into trays ready to be introduced into dark cages.



Figure 3: Pupa ready to be introduced into the Fly House

Fly House Unit

- Controlled conditions
 temperature, lighting and humidity
- ➢ Pupa hatching
- Setting up egg collection traps(cardboards)
- ➤ Egg collection



Figure 4: Inside the fly house

Fly House unit: Pupa hatching and egg trap setting



Figure 5: Fly moving from dark to light cages

Egg Incubation Pre-Larvae Rearing Unit

- ≻Egg collection is done every 2 days , morning
- ≻Weighed and well recorded
- ➤A leaf is put in the container to enhance humidity



Figure 6: Egg weighing





Figure 7: PVC ring (L)and egg incubation

Larvae Rearing

Grading



Larvae rearing



Figure 8: Larvae grading machine (L) and larvae rearing in bioreactors

Larvae Feeding

Processed Wheat bran



Larvae feed administration



Figure 9: Feed being administered to larvae

Proximate Composition

Table 1: nutrition composition for a sample larvae feed

Weizenkleie	Wheat bran	
Inhalt	Content	%
Rohprotein	Raw protein	18.20
Rohfett	Raw fat	4.30
Rohfaser	Raw fiber	11.40
Rohasche	Raw ash	6.51
L-Lysin	L-Lysine	0.73
Methionin	Methionine	0.27
Calcium	Calcium	0.18
Phosphor	Phosphorus	1.30
Natrium	Sodium	0.05
Wassergehalt	Water content	12.00
ME/kg	12.8	

Harvesting

Larvae harvesting

Pupa harvesting





Figure 10: Harvesting machine (L) and a rotating sieve

Processing and Marketing

Fresh larvae



Oven dried and Processed



Figure 11: Fresh packed larvae (L) and processed high protein BSF meal



Thank You