

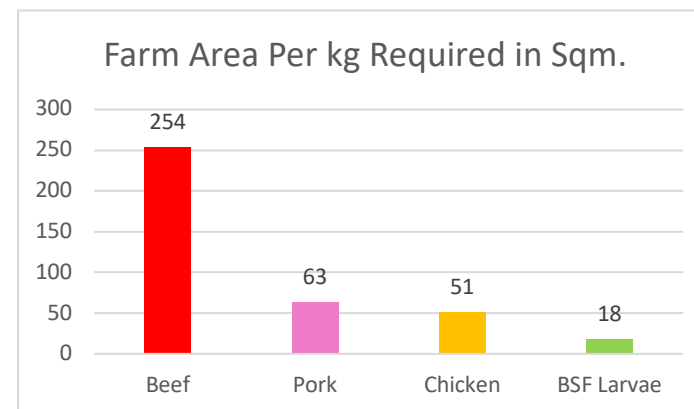
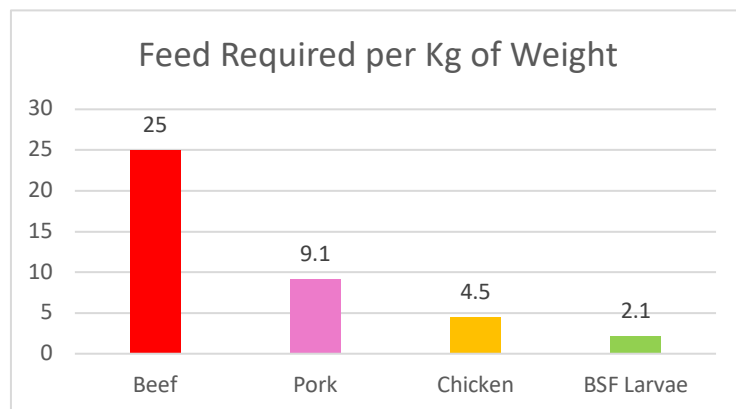
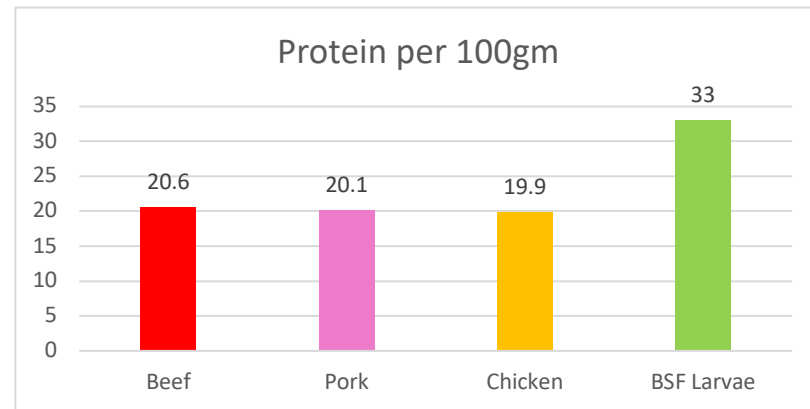
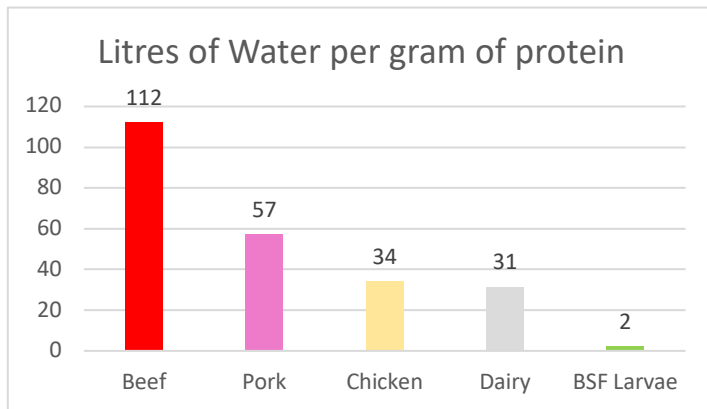


ecosapiient™

INSECT PROTEIN – BSF LARVAE

The world population nearing 8 billion has put an overall strain on all resources. Protein sources are few and put a huge strain on water, land and other resources needed. Greenhouse emissions are also a major problem arising out of this industry. Waste management is also becoming a tedious task with landfills and cities overflowing with garbage.

Insect protein is the answer to long term safe, nutritious and sustainable protein. Unaffected by weather, soil and other conditions supplies can be continuous, large scale and economically viable.



Dried BSF Larvae contain upto 50% protein, 35% fat, 6% calcium, 1.2% phosphorus, 1% magnesium, 0.3% sodium. Therefore it is recognized and used as high quality protein & fat source for pigs, poultry, chicken, fish, shrimp and more recently human consumption. The nutrition parameters have often been compared to high quality Fish meal. A comparison of Amino Acid profiles Fishmeal and BSF Larvae is given below:

Amino Acid	BSF Larvae g/100g	Fish Meal g/100g
Aspartic Acid	7.3	9.4
Glutamic Acid	13.1	14.5
Serine	4.88	4.17
Glycine	6.15	6.41
Histidine	3.25	2.09
Arginine	5.47	6.07
Threonine	4.43	4.10
Alanine	8.21	6.87
Proline	6.68	4.28
Tyrosine	6.71	3.00
Valine	6.79	5.79
Methionine	2.12	2.53
Cystine	0.76	9.59
Isoleucine	4.73	4.24
Phenylalanine	7.76	3.07
Lysine	6.82	6.63





PRODUCT FORMS

BSF LIVE WORMS

BSF LARVAE (DRY)

BSF DRIED MEAL (POWDER) – DEFATTED

BSF OIL

BSF LARVAE (WET)

BSF DRIED MEAL (POWDER) – FULL FAT

BSF FRASS



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