

Profitable Farming with Integrated Livestock

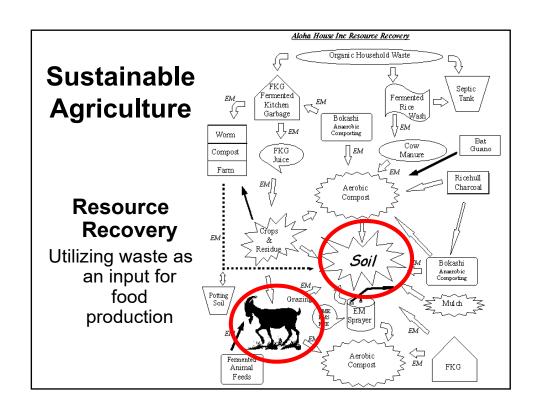


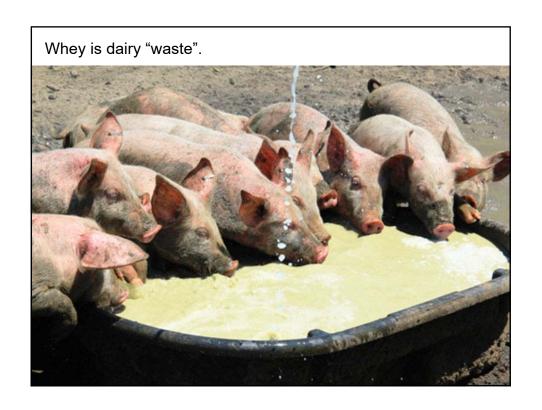


including Resource Recovery Utilizing EM













Low Cost/ High Value Food Production

Utilize Waste for Food Production

Grow what you like to eat first, replace some of what you are buying the most of

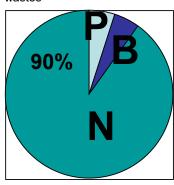
- Spend 1 year with first livestock system
- -Master 1 technology at a time
- -Master 2 vegetables at a time



Total Microbial Balance

Pathogens-Destructive-Disease causing

- 5% of total population
- Will dominate with excess wastes



Beneficials

5% of total population Will dominate when population increased



Abused Chemical System

Pathogens

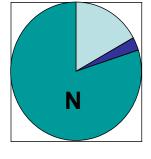
- Higher % of total population
- -

Beneficials Lower % of total population Little effect

Dominant

Results

- •Disease
- Infestations
- Poor nutritional end product
- •Inefficiencies in resource utilizations
- •Toxins are passed on to consumer
- •Expensive chemicals to control symptoms



■ Pathogens
■ Beneficials
■ Neutrals

Healthy Sustainable System

Pathogens

- Lower % of total population Little effect

N

Beneficials

Higher % of total

population **Dominant**

■ Pathogens Beneficials Neutrals

Results

Low Disease Minimal Insects Excellent nutritional end product No Toxins are passed on to consumer Low input/Low cost

Sustainable Agriculture

Organic Farming, Natural Farming, Nature Farming

· Utilize farm and commercial waste for fertility



WITHOUT Ever using:

- · Chemical Fertilizers
- Pesticides
- Fungicides
- Herbicides
- · They are all suicides

Natural Farming Models

The Golden Rule Feed the soil and it will feed the plants



Feeding the soil will feed the plant
Increase the Humus Content with:
Fermented Kitchen Waste
Rice Hull Charcoal
Green Fertilizers
Animal Waste
Composting
Mulching
Bokashi

The Fundamentals

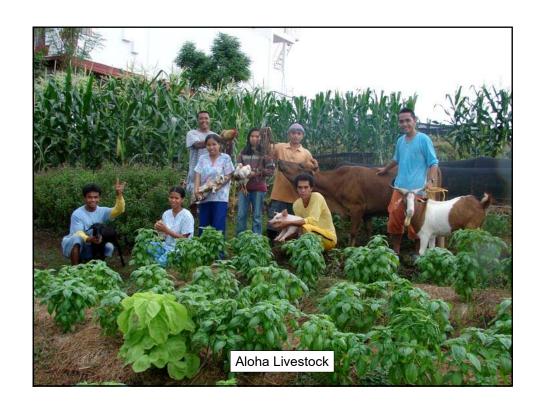
The 10 Commandments of Sustainable Agriculture

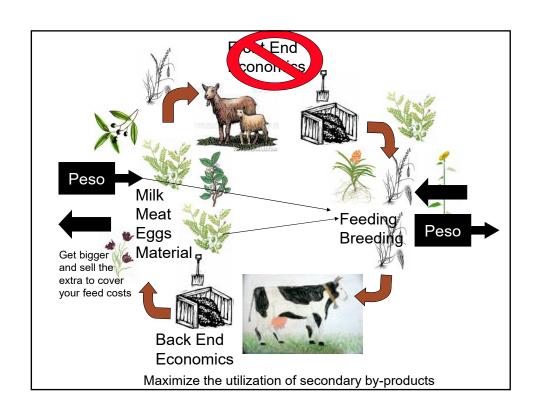
The 10 Fundamentals

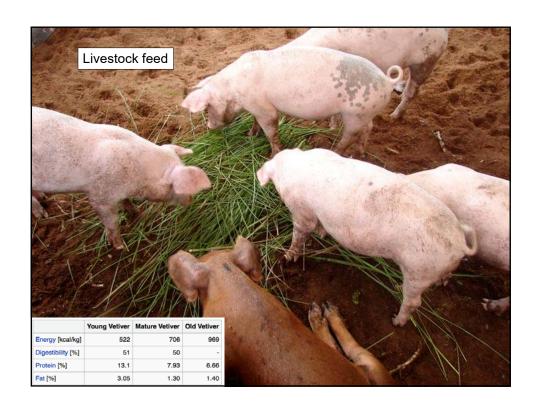
- Crop Rotation
- Legume Usage
- Companion Planting
- Composting
- Green Fertilizers

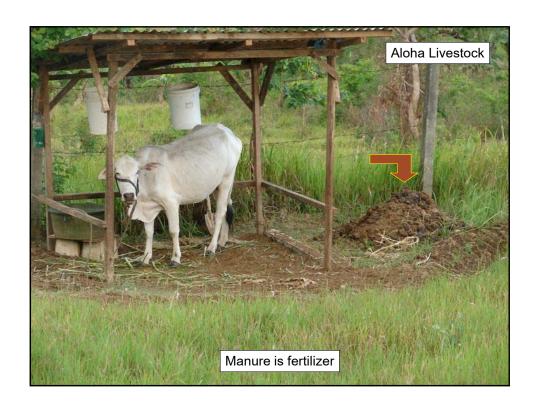
- Mulching
- Cover Cropping
- Minimal Tillage
- Insect Habitat

Integrated Livestock













Small Piggeries

- Won't make you rich
- Will earn for your family





It is less work than some livelihoods but requires proper management because of the high risk

Sustainable Concepts

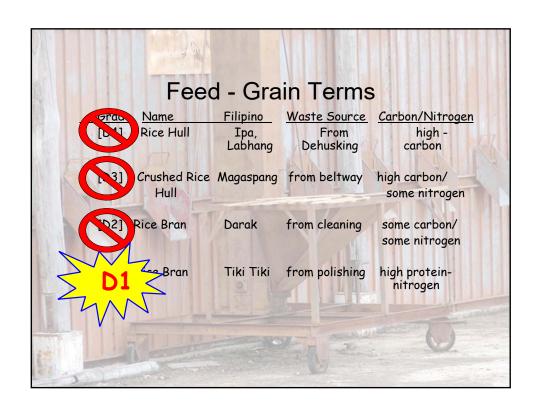


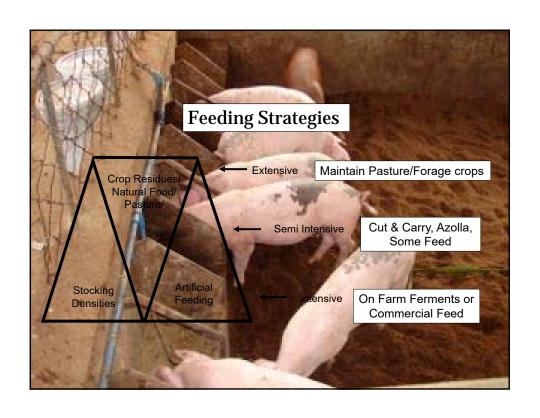
Start small and grow into it

Develop your project with the confidence that God wants you

- to grow through the failures
- •and thank Him for the successes

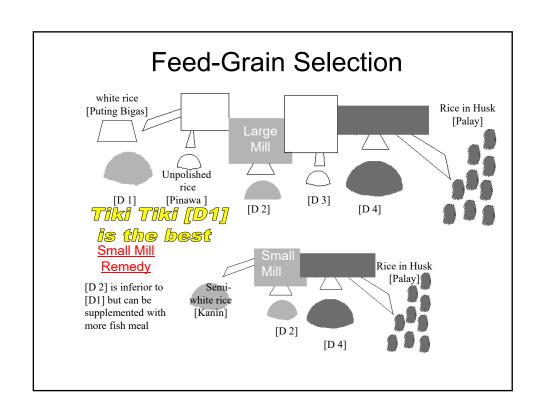


















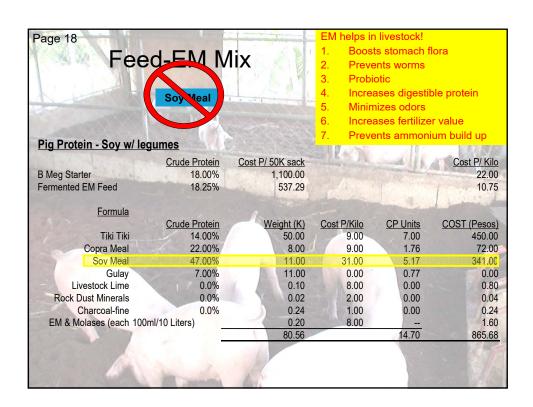












SOY INFANT FORMULA BIRTH CONTROL PILLS FOR BABIES

Babies fed soy-based formula have 13,000 to 22,000 times more estrogen compounds in their blood than babies fed milk-based formula. Infants exclusively fed soy formula receive the estrogenic equivalent of at least five birth control pills per day.

pills per day. Male infants undergo a "testosterone surge" dur-ing the first few months of life, when testosterone levels may be as high as those of an adult male. During this period, hably boys are programmed to express male characteristics after puberty, not only in the development of their sexual organs and other masculine physical traits, but also in setting patterns in the brain characteristic of male behavior.

In animals, studies indicate that phytoestogens in soy are powerful endocrine disruptors. Soy infant feeding—which floods the bloodstream with female hormones that inhibit testsisterone—carn-not be ignored as a possible cause of disrupted development patterns in boys, including learning disabilities and attention defait disorder. Male children exposed to DES, a synthetic estrogen, had testes smaller than normal on maturation and infant marmoset monkeys fed soy isoflavones had a reduction in testosterone levels up to 70 percent compared to milis/fed controls. Almost 15 percent of white nick and En percent In animals, studies indicate that phytoestrogens in

Almost 15 percent of white girls and 50 percent of African-American girls show signs of puberty, such as breast development and pubic hair, before the age of eight. Some girls are showing sexual development before the age of three. Premature development of girls has been linked to the use of soy formula and exposure to environmental estrogen-mimickers such as PCBs and DDE.

Intake of phytoestrogens even at moderate levels during pregnancy can have adverse affects on the developing fetus and the timing of puberty later in life.

SOY DANGERS SUMMARIZED

High levels of phytic acid in soy reduce assimilariign ieveis or pnytic acid in soy reduce assimila-tion of calcium, magnesium, copper, iron and zinc. Phytic acid in soy is not neutralized by ordinary preparation methods such as soaking, sprouting and long, slow cooking. High phytate diets have caused growth problems in children.

caused grown process in chairen. Trypsin inhibitors in soy interfere with protein digestion and may cause pancreatic disorders. In test animals soy containing trypsin inhibitors caused stunted growth. Soy phytoestrogens disrupt endocrine function and have the potential to cause infertility and to promote breast cancer in adult women.

Soy phytoestrogens are potent antithyroid agents that cause hypothyroidism and may cause thyroid cancer. In infants, consumption of soy formula has been linked to autoimmune thyroid disease.

Vitamin B₁₂ analogs in soy are not absorbed and actually increase the body's requirement for B₁₂. Soy foods increase the body's requirement for B_{12} . Soy foods increase the body's requirement for vitamin D. Toxic synthetic vitamin D_{2} is added to soy milk.

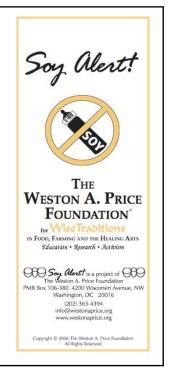
Fragile proteins are over-denatured during high temperature processing to make soy protein isolate and textured vegetable protein.

Processing of soy protein results in the formation of toxic lysinoalanine and highly carcinogenic nitrosamines.

Free glutamic acid or MSC, a potent neurotoxin, is formed during soy food processing and additional amounts are added to many soy foods to mask soy's unpleasant taste.

Soy foods contain high levels of aluminum, which is toxic to the nervous system and the kidneys.

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Soy Alert!

The Weston A. Price Foundation®

WiseTraditions

in Food, Farming and The Healing Arts
Education • Research • Activism

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- Soy foods increase the body's requirement for vitamin D. Toxic synthetic vitamin D2 is added to soy milk.
- Fragile proteins are overdenatured during high temperature processing to make soy protein isolate and textured vegetable protein.
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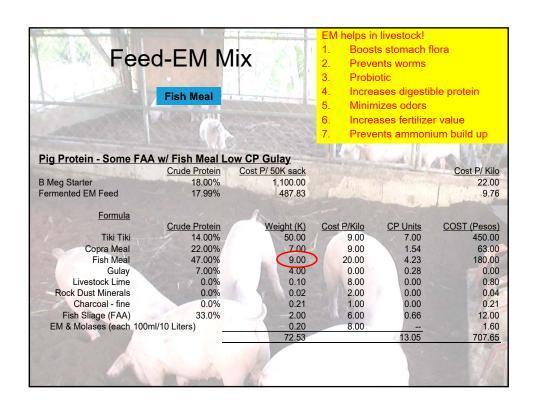
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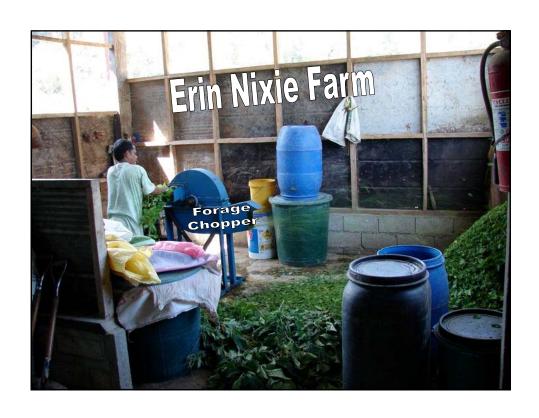


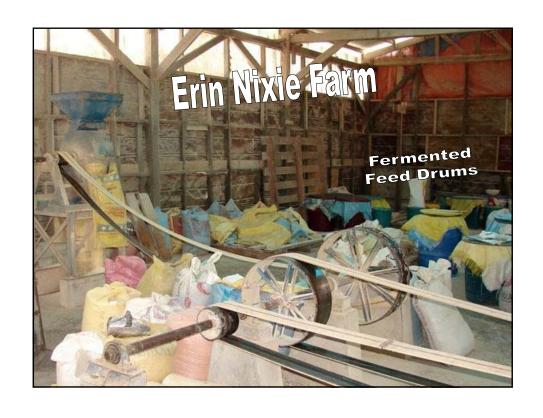


| Feed-EM Mix | | | Boosts stomach flora Prevents worms | | | | |
|---|------------------|--|--|-------------------------------|--------------|--|--|
| | | 1 2 1 1 | 3. Probi | otic | | | |
| A LINE OF THE REAL PROPERTY OF THE PERTY OF | FAA | 17 9-11 | 4. Increa | ases digestil | ble protein | | |
| | | The state of the s | 5. Minim | nizes odors | | | |
| | Walang Fish Meal | | | 6. Increases fertilizer value | | | |
| | | | 7. Preve | ents ammon | ium build up | | |
| | | | SECTION AND ADDRESS. | 40 | Walland up | | |
| Pig Protein - FAA no F | ish Meal - Low C | P Gulav | THE REAL PROPERTY. | عالم المسك | A STATE OF | | |
| | Crude Protein | Cost P/ 50K sack | | | Cost P/ Kild | | |
| B Meg Starter | 18.00% | 1,100.00 | | | 22.00 | | |
| Fermented EM Feed | 18.00% | 395.81 | | | 7.93 | | |
| <u>Formula</u> | | 1 | | | | | |
| | Crude Protein | Weight (K) | Cost P/Kilo | CP Units | COST (Pesos | | |
| Tiki Tiki | 14.00% | 50.00 | 9.00 | 7.00 | 450.00 | | |
| Copra Meal | 22.00% | 7.00 | 9.00 | 1.54 | 63.00 | | |
| Fish Meal | 47.00% | 0.00 | 20.00 | 0.00 | 0.00 | | |
| Gulay | 7.00% | 4.00 | 0.00 | 0.28 | 0.0 | | |
| Livestock Lime | 0.0% | 0.10 | 8.00 | 0.00 | 0.80 | | |
| Rock Dust Minerals | 0.0% | 0.02 | 2.00 | 0.00 | 0.04 | | |
| Charcoal - fine | 0.0% | 0.18 | 1.00 | 0.00 | 0.18 | | |
| Fish Sliage (FAA) | 33.0% | 15.00 | 6.00 | 4.95 | 90.00 | | |
| EM & Molases (each 100ml/10 Liters) | | | 8.00 | | 1.60 | | |
| | 400 | 76.50 | | 13.77 | 605.62 | | |

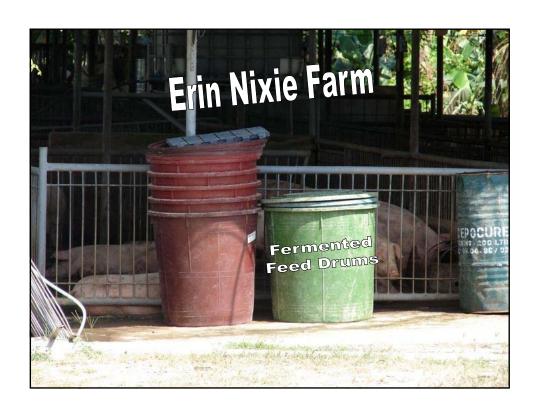






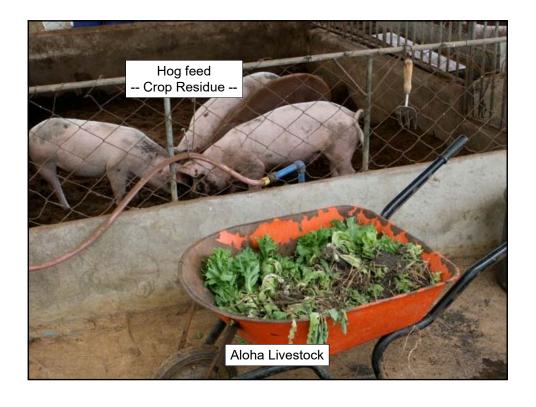


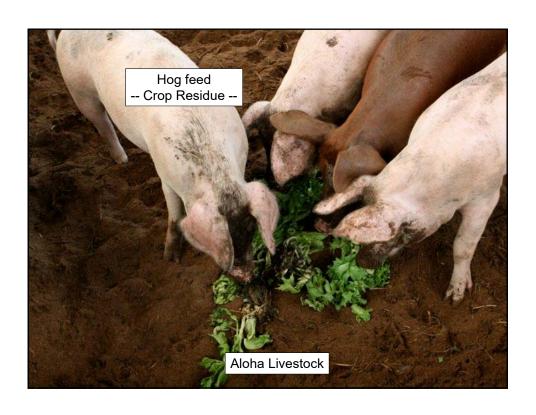


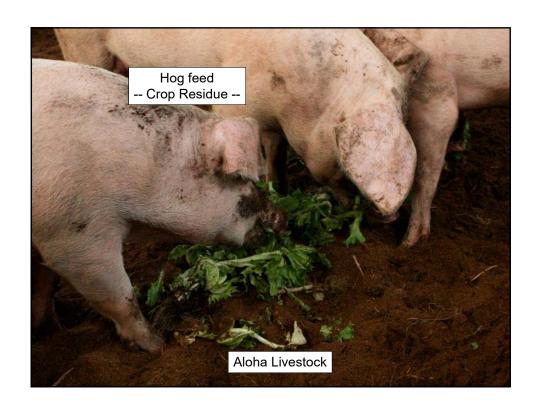








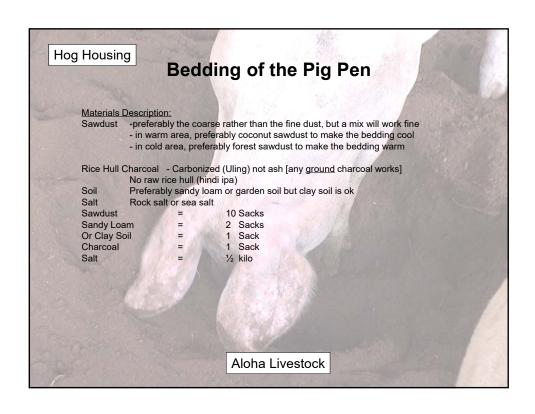


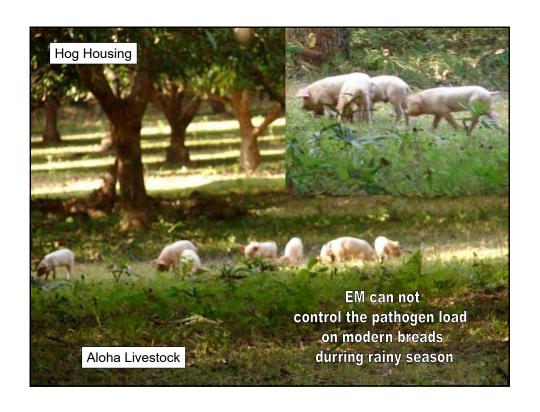




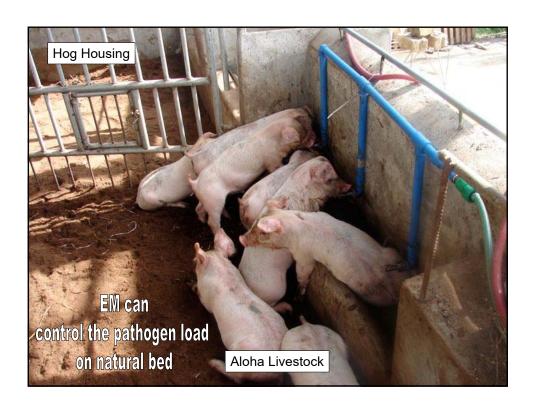
| Feeding for Developmental Stages | | | | | | | | | |
|----------------------------------|----------------------|-------------------------------|------------------------------|--|--|--|--|--|--|
| Period | EM Fermented Feed | Crop Residue Cut and Carry | Daily Amount Of EM Feed | | | | | | |
| 0 to 45 days [To weaning] | Pre Starter | None | Ad Lib [continual till 5 pm] | | | | | | |
| 46 days to 18 Kilos | Starter | 12:00 noon | Ad Lib [continual till 5 pm] | | | | | | |
| 18-50 Kilos | Grower | 3 x daily | 1-2+ Kilos EM Feed | | | | | | |
| 50+ Kilos | Finisher | Ad Lib | 1 Kilo | | | | | | |
| IRAS LIBERTA | A PLANT | AA | | | | | | | |
| Sow | Maintenance | 3x | 2-3 Kilo | | | | | | |
| Sow | Pregnant | Ad lib | 3 Kilo | | | | | | |
| Sow | Lactating | Ad lib | 3 Kilo + ½ kilo/piglet | | | | | | |
| A | | 1110 | A Commence | | | | | | |

| Transition Feeding | | | | | | |
|--------------------|------------------|---------|-----------------|---|--|--|
| F | Period | EM Feed | Commercial Feed | Ē | | |
| | day 1-5 | 0% | 100% | | | |
| _B.M. | day 6-10 | 25% | 75% | 1 | | |
| Zone | day 11-15 | 50% | 50% | | | |
| 132531 | day 16-20 | 75% | 25% | | | |
| | day 21 onward | 100% | 0% | | | |
| Her | | | | | | |
| D. | VAID | | | | | |

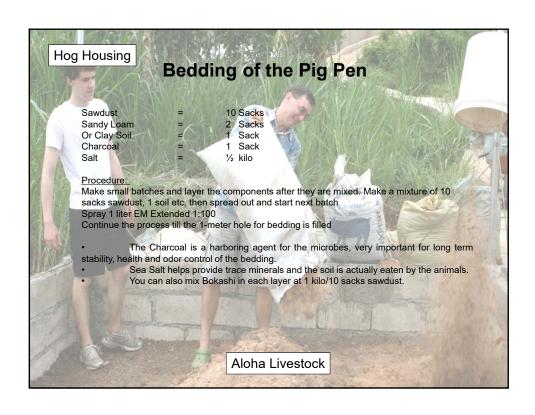
















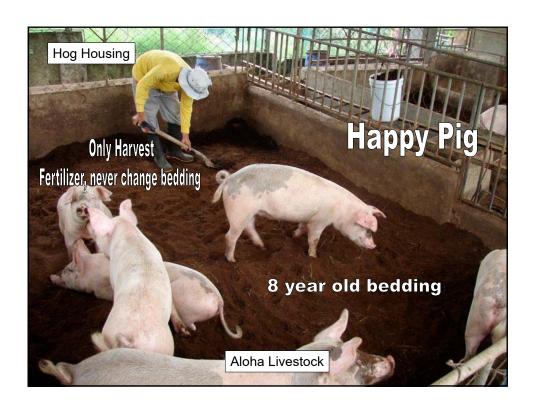




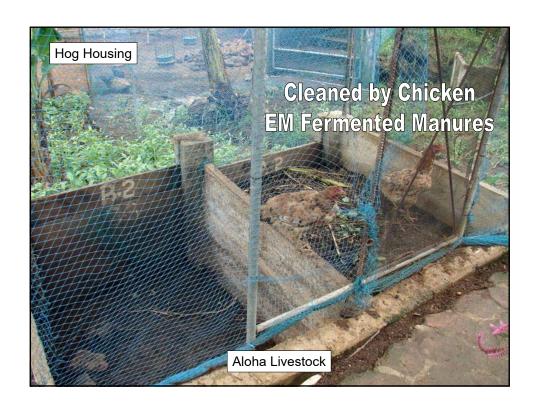




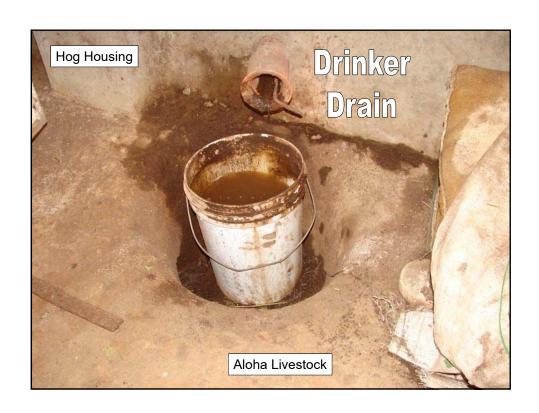


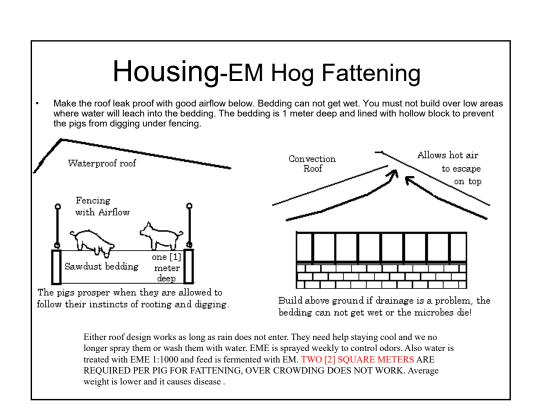


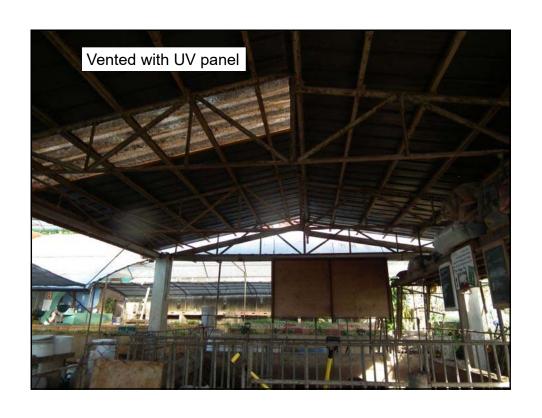










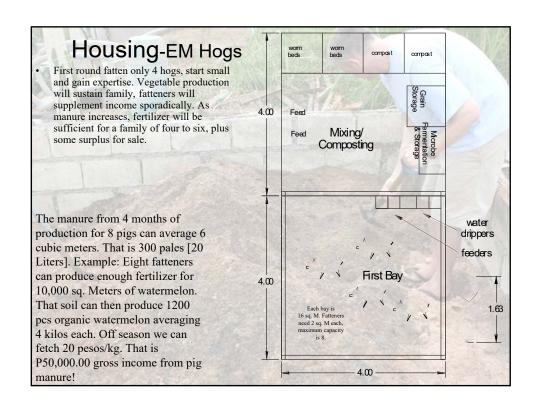


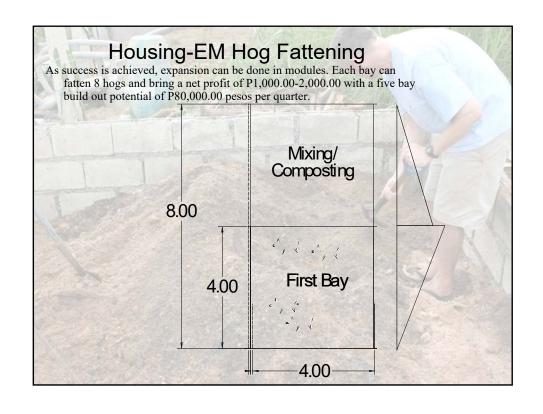


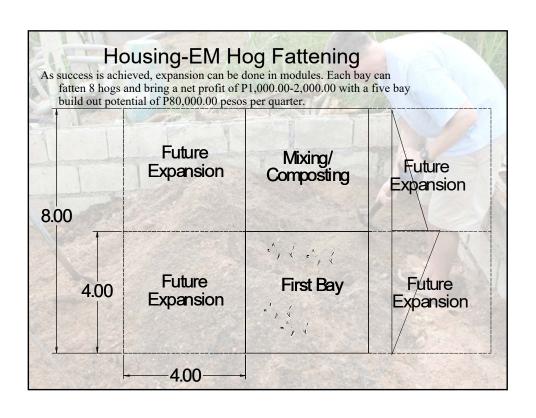




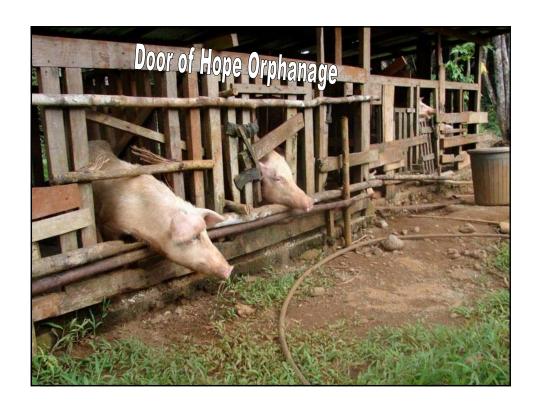












Breeds-EM Hog Fattening

- Good genetics is more important than good breeds
- Land raise
- Large white
- Landraise/LargeWhite (hybrid vigor)
- Durok males (females-poor furrowing sows)
- · Look for professional growers
- Avoid pointy nosed native blood





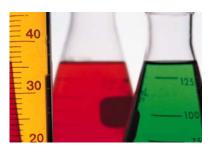
Problems - EM Hog Fattening

Pig Problems

- Never feed sitao, it is toxic to pigs
- Use ipil ipil sparingly kunti kunti -skin/hair loss
- Ipa/labhang (rice hull) is not best in the bedding
- Coco lumber sawdust is best
- Gemelina sawdust is toxic to pigs
- Bad odor is from wet bedding or bad feed. Do not feed with kitchen/restaurant food.
- Do not feed your livestock with darak, use only Tiki
- Fish meal and copra meal are high protein.
- 10% copra meal is the maximum in feed, more will cause LBM (diarrhea).

| Problema | Possible Cause | Solution | |
|----------------|----------------------------|---|--|
| Foul Odor | Bad feed | Mix with out kitchen waste, use soy meal not fish meal | |
| HINKS | Wet bedding | Dripper drainage, roof leaks, house in low area, flood area | |
| HIN | No beneficial microbes | Use EME in bedding, feed and water | |
| Rashes on Pigs | Sitao in feed | Quit feeding sitao, try other legumes | |
| | Too much kakawati, Ipil 2 | Quit feeding kakawati, Ipil Ipil | |
| | Rice hull (ipa) in bedding | Use sawdust lang | |
| | Mites | Isolate, coat with oil / aloe vera | |
| Slow Growth | Bad genetics | Get professionally bred hogs | |
| | Bad feed mix | Use high protein feed stock and gulay | |
| | Stress | Over crowding, give 2 sq. M each pig | |
| Diarrhea | Bad feed | Ferment with EME one week, 10% copra meal only | |
| | Too much soil/shallow | Remove soil - Add sawdust | |
| Flies | Wet bedding | Dripper drainage, roof leaks, house in low area, flood area | |
| | Bad feed | Mix with out kitchen waste, use soy meal not fish meal | |
| | No beneficial microbes | Use EME in bedding, feed and water | |

After much clinical research, experts have now identified the top four leading causes of premature death...







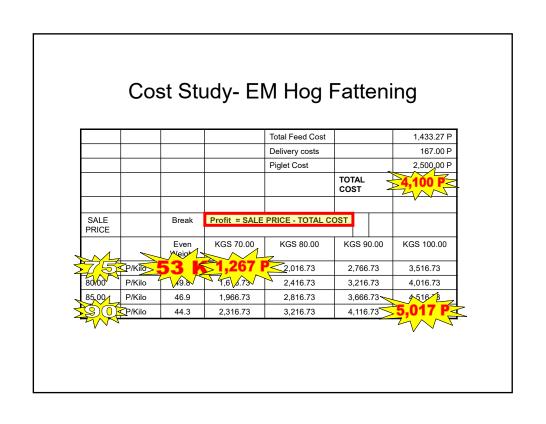












A Case Study - Natural Pork

- 16 Hogs Fatteners
- · Cover 2 farmers salary
- Spend ½ hour per day Feeding, caring (no washing)
- 3 hours per week (mixing feed)



= 13 man hours per day for cash crops – gulay not palay

A Case Study - Natural Pork

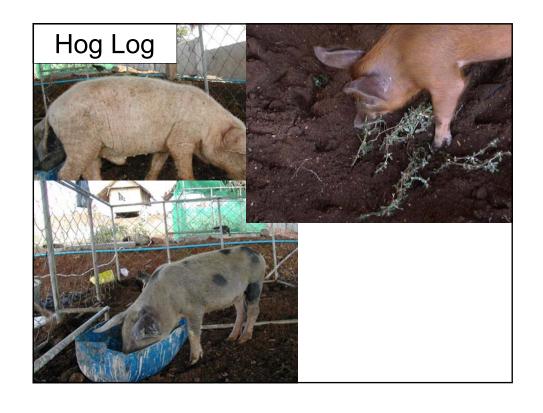


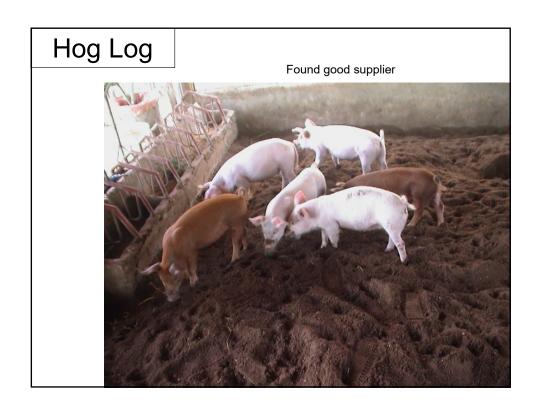
- If 16 Hogs works then would 160 work better?
- So just add a zero, move a decimal point, multiply for projections, right?
- WRONG

Nothing is sustainable without careful growth through skilled <u>hands on management</u>.

Why do you think the Chinese live over their work and never take a vacation?







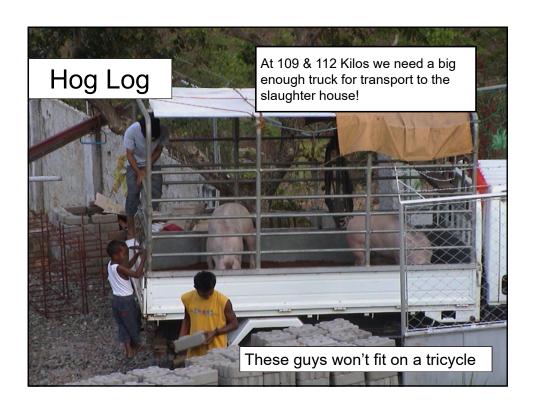
















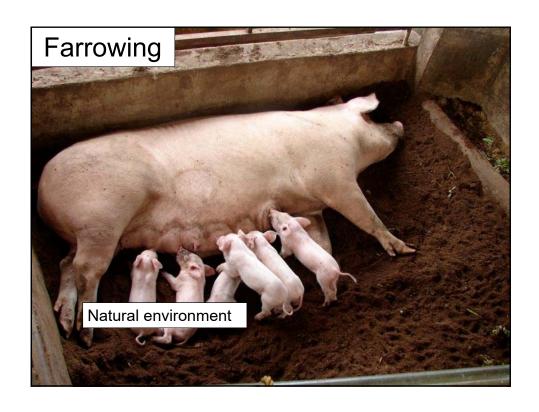


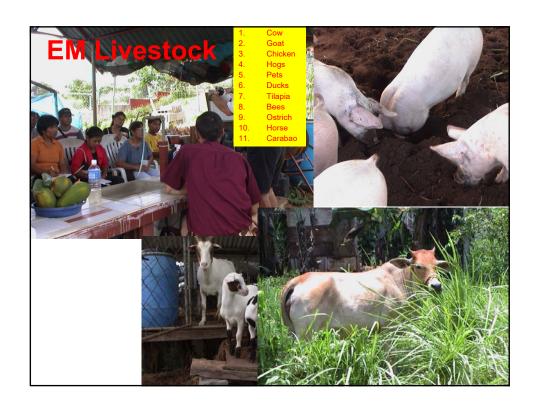


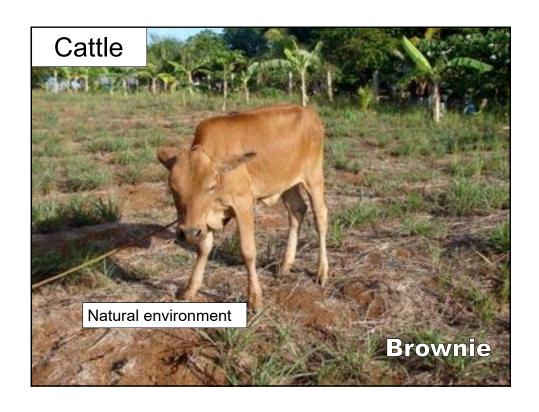




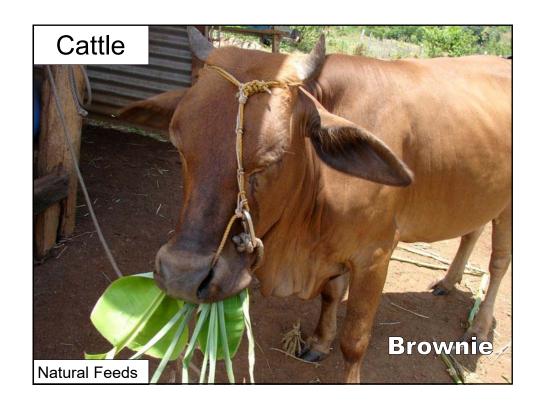


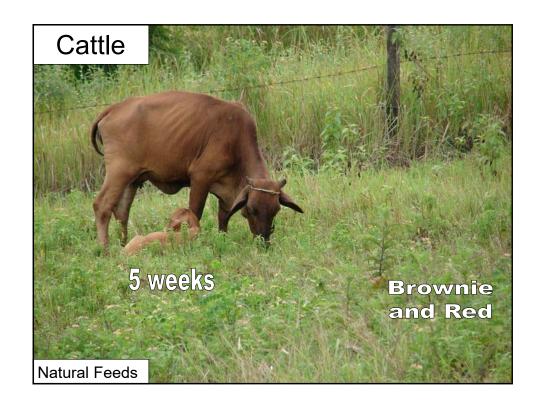


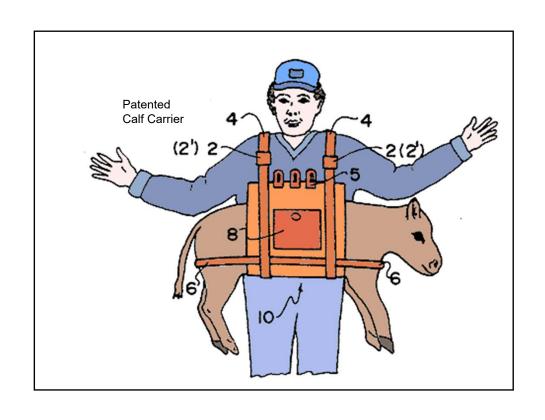




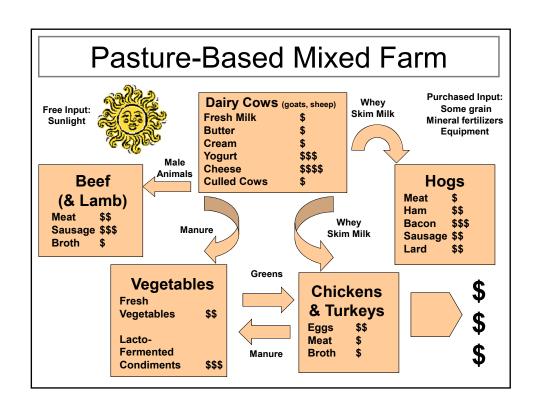


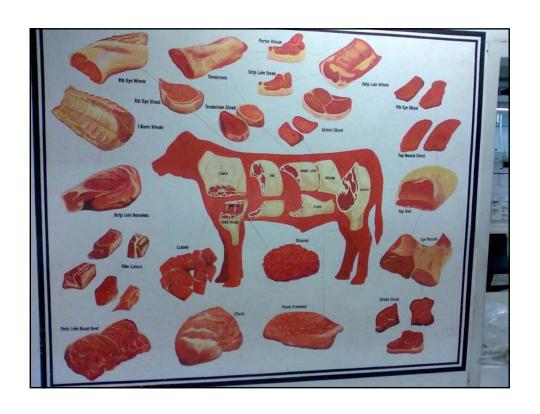






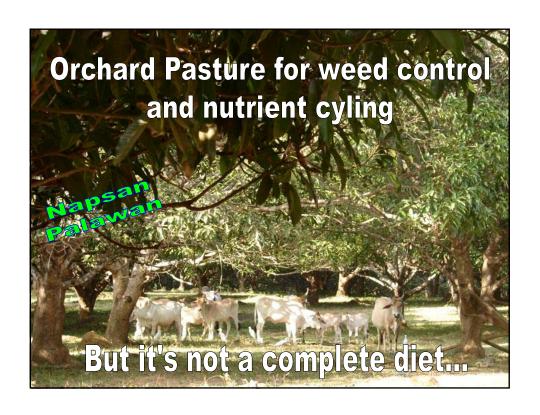






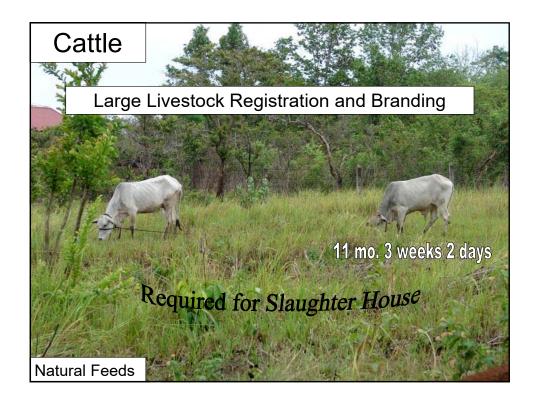


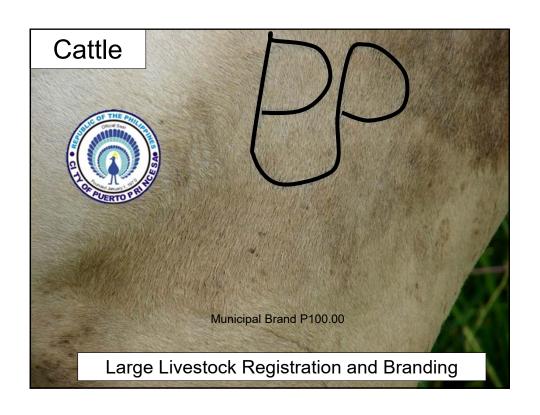


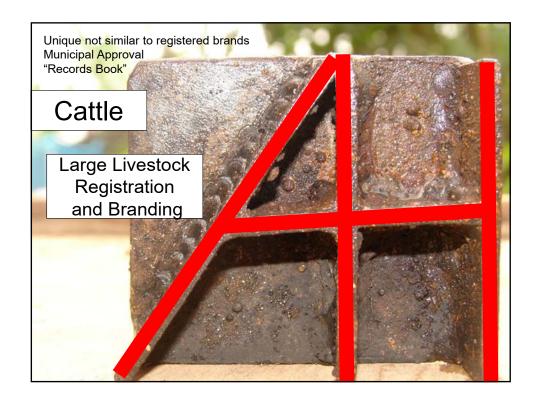


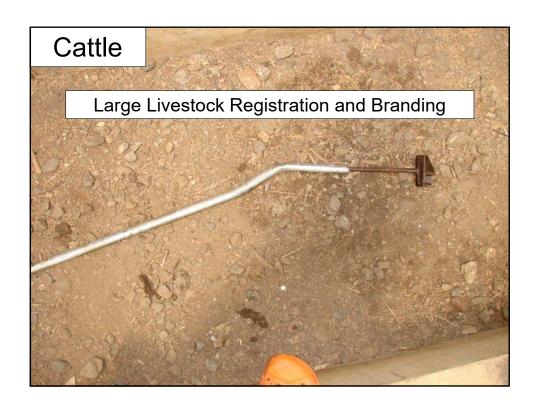


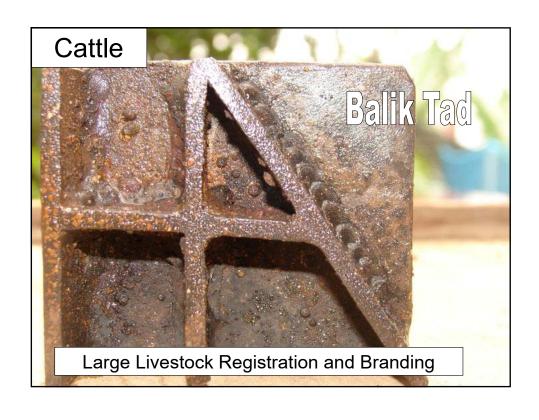


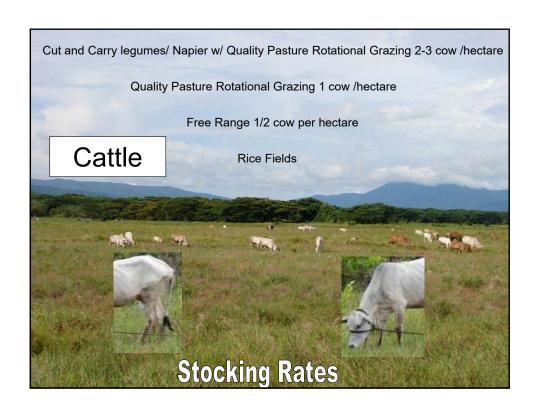












| | Grain | Grass |
|--------------------|------------------|-------------------|
| | Fed Beef | Fed Beef |
| Added Hormones | Usually | No |
| Fed Antibiotics | Usually | No |
| Fed Grain | Yes | No |
| Omega-3 Fatty Acid | 0.1 | 1.22 |
| Omega-6 Fatty Acid | 3.1 | 1.08 |
| CLA | 0.21 | 1.46 |
| Beta Carotene | 41 | 87 |
| Vitamin E | 1.3 | 5.3 |
| Vitamin A | 10 | 52 |
| Total Fat | High & Saturated | Proper Balance |
| Flavor | Bland/Pasty | Original and Bold |
| All Other Factors | Fair | Ideal |
| E. coli Danger | E. coli Danger | Minimal |

