# Dr. Maynard Murray's Experiments Appendix

| Year | Produce | Feature | Specific Intervention | RESULTS & OBSERVATIONS<br>Control/Best Practice | Experimental/Sea Solids | Relative Advantage of Experiemental |
|---|---|---|---|---|---|---|
| 1940 | Peach Trees | Immunity | Curly Leaf Virus introduced | Sharply reduced yield/death | Normal yield/complete immunity | **Significant** |
| 1940 | Turnips | Immunity | Staphylococcus Bacteria introduced | Center rot/death | Completely normal w/o center rot | **Significant** |
| 1940 | Tomatoes | Immunity | Tobacco Mosaic Virus introduced | All died | Completely normal | **Significant** |
| 1954 | Tomatoes | Immunity | None | Heavy blight from fungus | Blight free | **Significant** |
| 1954 | Turnips | Immunity | None | Various diseases | Disease free | **Significant** |
| 1954 | Corn | Uniformity | None | Nubbins w/variation in size of stalk | Free of Nubbins w/no variation in size of sta | **4 bushels/acre extra** |
| 1955 | Oats | Yield | None | 38 bushels per acre | 45 bushels per acre w/less rust | **16% increase** |
| 1955 | Corn | Yield | None | 75 bushels per acre w/extensive gallin | 88 bushels per acre | **15% increase** |
| 1955 | Onions | Ash/Mineral | None | 13.60% | 14.20% | **4.4% increase** |
| | Oats | Ash/Mineral | None | 87.70% | 87.80% | **0.1% increase** |
| | Sweet Potatoes | Ash/Mineral | None | 28.80% | 31.20% | **8.3% increase** |
| | Tomatoes | Ash/Mineral | None | 4.80% | 5.70% | **18.% increase** |
| | Soy Beans | Ash/Mineral | None | 73.90% | 84.70% | **14.6% increase** |
| | Corn | Ash/Mineral | None | 73.10% | 74.40% | **1.7% increase** |
| 1955 | $C_3H$ Mice | 9 month life expect | None | All dead in 8 months and 7 days | Sacrificed at 16 months, no cancer, 10 litter | **Significant** |
| | Sprague Dolly Rats | Mortality | Injected w/Jensen Carcino-Sarcoma Cancer | All dead within 21 days | 9 died within 40 days, 25 sacrificed at 5 months, 16 cancer free | **Significant** |
| | Sprague Dolly Rats | Mortality | Injected w/Jensen Carcino-Sarcoma Cancer, thymus gland implant | All dead within 23 days | 4 dead, 52 sacrificed at 90 days, on sacrifice rats had no cancer detected | **Significant** |
| | Rabbits | Ailments | High cholesterol diet for six months | All dead within 10 months from hardening of the arteries | Sacrificed, no hardening of the arteries | **Significant** |
| | Rats | Fatal eye disease | None | All dead | Sacrificed, w/o deterioration, bred 5 litters | **Significant** |
| 1956 | Chickens | Feed consumed | None | 3 lbs. | 1.89 lbs | **37% less feed** |
| | | Weight gain | None | Roosters 135 oz./Hens 96 oz. | Roosters 152 oz./Hens 114 oz. | **12-16% increase** |
| | | Egg weight | None | 24 oz. average | 28 oz. average | **14% increase** |
| | | Maturation | None | 24.5 weeks | 21.5 weeks | **Earlier Maturation** |
| | | Mortality | None | 3 | 0 | **No losses** |
| | | Worms | None | Yes | No | **Significant** |
| | | Nervous condition | None | Yes | No | **Significant** |
| | | Leg disjointing | None | Yes | No | **Significant** |
| | | Size | None | Varied | Uniform | **Significant** |
| 1956 | Pigs | Behavior | None | Rooting | No Rooting | **Significant** |
| | | Runting | None | Runting | No Runting | **Significant** |
| 1957 | Carrots | Vitamin A | None | 19,800 IU vitamin A | 23,400 IU vitamin A | **18% increase** |
| 1957 | Grapes | Sugar Content | None | 13.60% total sugars | 16.87% total sugars | **20% increase** |
| 1958 | Tomatoes | Vitamin C | None | 13,000 IU vitamin C | 18,300 IU vitamin C | **25% increase** |

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