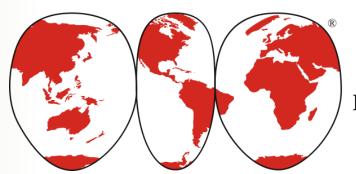


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Defends the rights and broadens the freedoms of family farms and artisan producers and protects consumer access to raw milk and nutrient-dense foods.

Singing Prairie Farm La Plata, MO



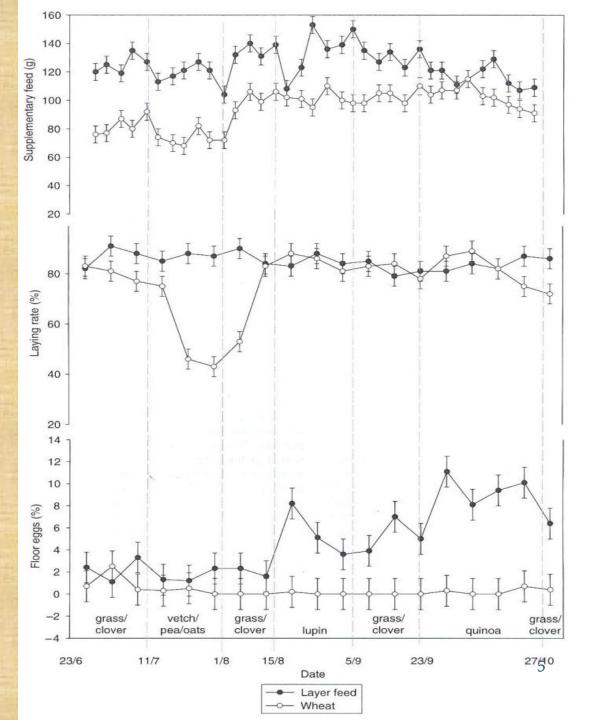






Whole wheat versus
mixed layer diet as
supplementary feed to
layers foraging a
sequence of different
forage crops

K. Horsted and J. E. Hermansen



Wheat Sprouting Process

- Wheat was soaked for two days fully submerged in water
- On the Third day water was drained and wheat was allowed to sprout
- Wheat was fed to chickens on day four







Nutrition in Sprouted Wheat

Analysis Wheat Sprouts	Moisture	Monogastric <u>Protien</u> (As Fed)	Ruminants <u>Protein</u> (Dry Matter)	Energy Kcal/Lb
Wheat	12.40%	11.10%	12.70%	1382
Day 1	46.50%	6.70%	12.50%	835
Day 2	60.10%	5.20%	13.20%	623
Day 3	65.00%	4.80%	13.70%	541
Day 4	72.60%	3.80%	14.00%	420
Day 5	77.90%	3.30%	14.80%	332
Day 6	83.90%	2.80%	17.20%	237

Breeds of Chickens

Heritage: Road island Red Hybrid: Red Sex-Link



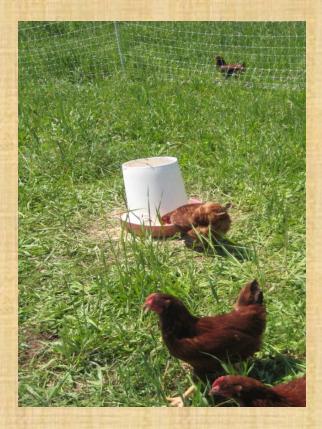


Rotational Grazing



Management

- Four experimental groups of chickens
- Each group contained approximately 40 chickens
- One handmade shelter per group that was moved onto fresh pasture daily
- Electric poultry fences moved twice a week

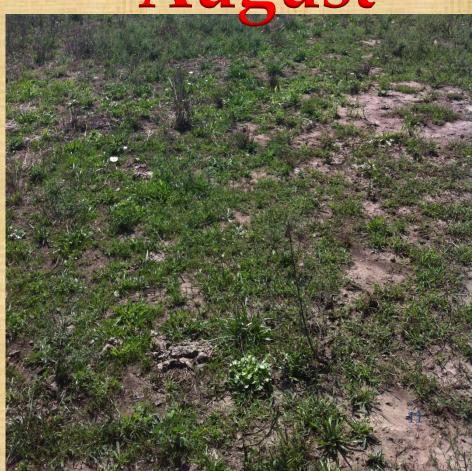




Impact Lack of Rain Has on Pasture

May August

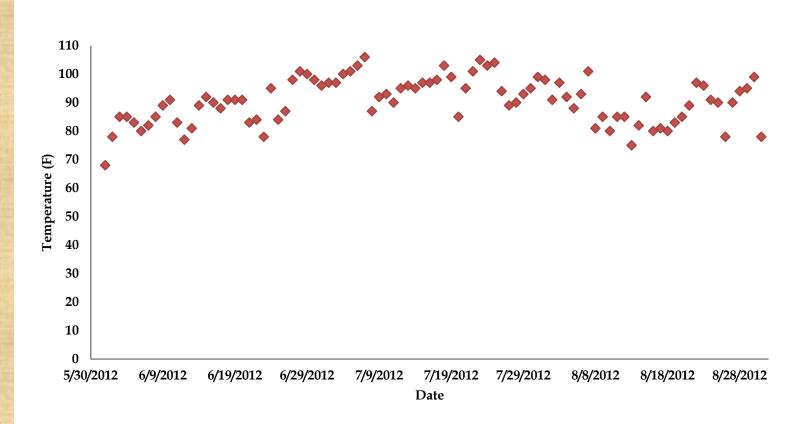




Temperature: Summer 2012

- High of 106 in July!
- Remained in upper 90's most of the summer

Temperature in Kirksville, MO Summer 2012



Drought Management



Behaviors in D: Lacking in Nutrients?

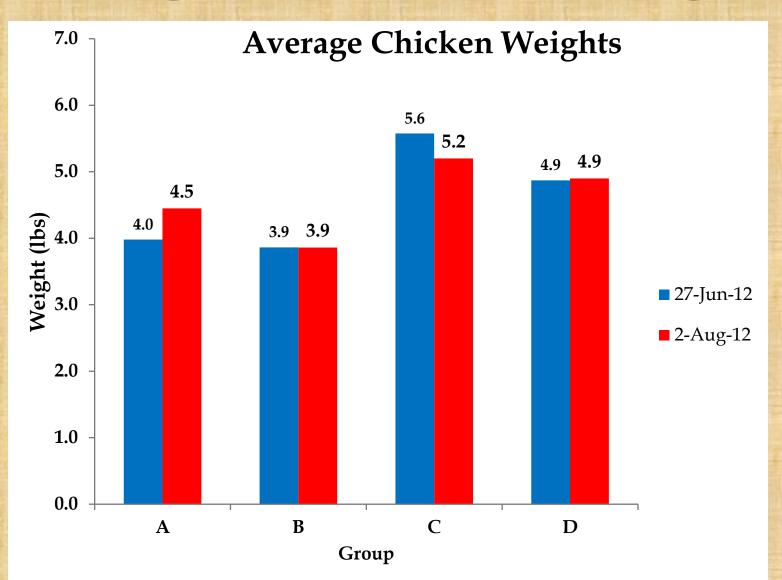
Toe-Pecking



Feather Picking

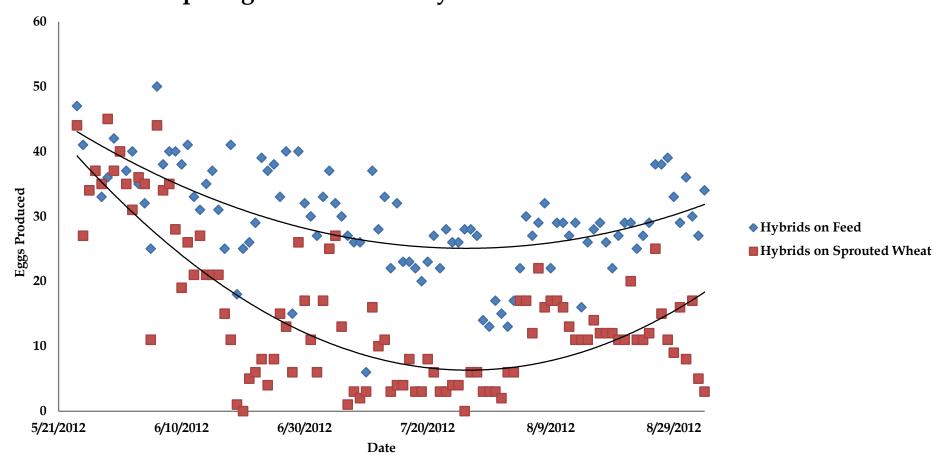


Average Chicken Weights



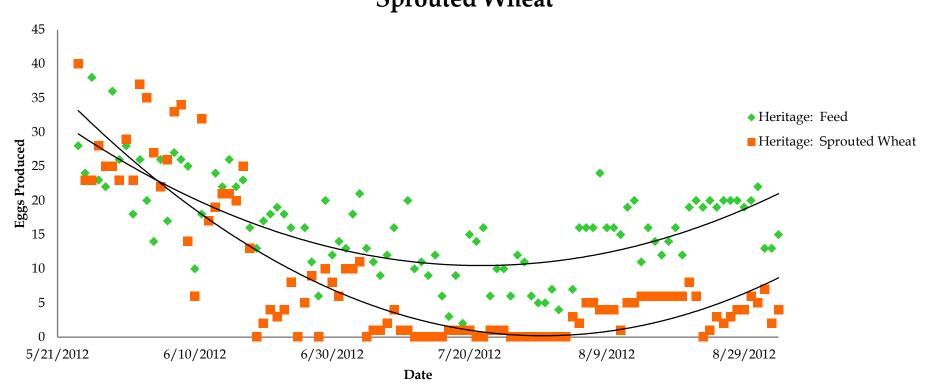
Feed vs. Sprouted Wheat

Comparing Production of Hybrid of Chickens: Feed vs Wheat



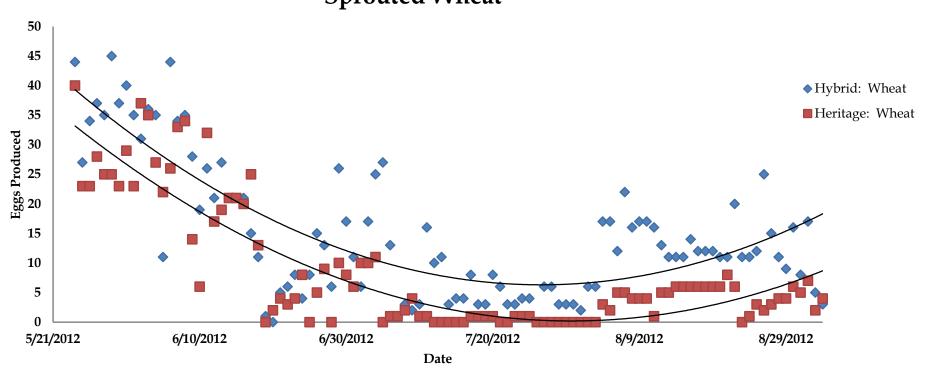
Heritage: Feed vs. Sprouted Wheat



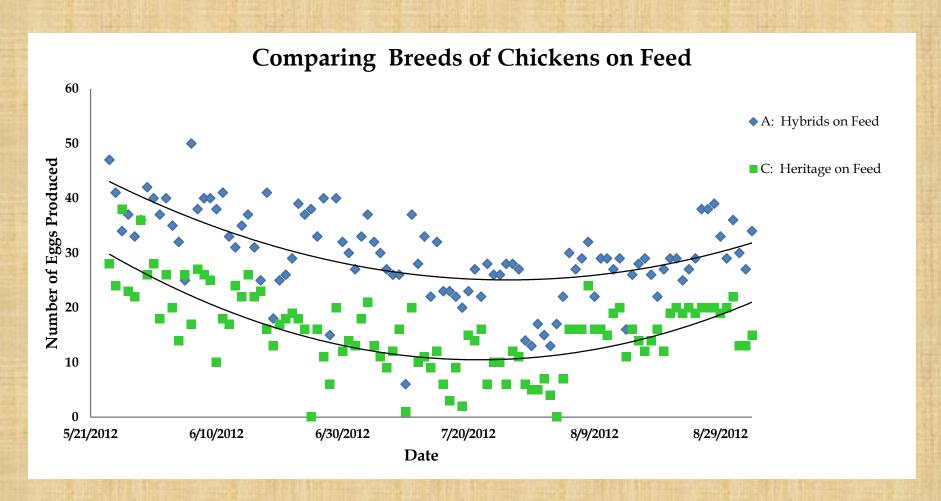


Wheat: Hybrids vs. Heritage

Comparing Comsumption in Breeds of Chickens Consuming Sprouted Wheat

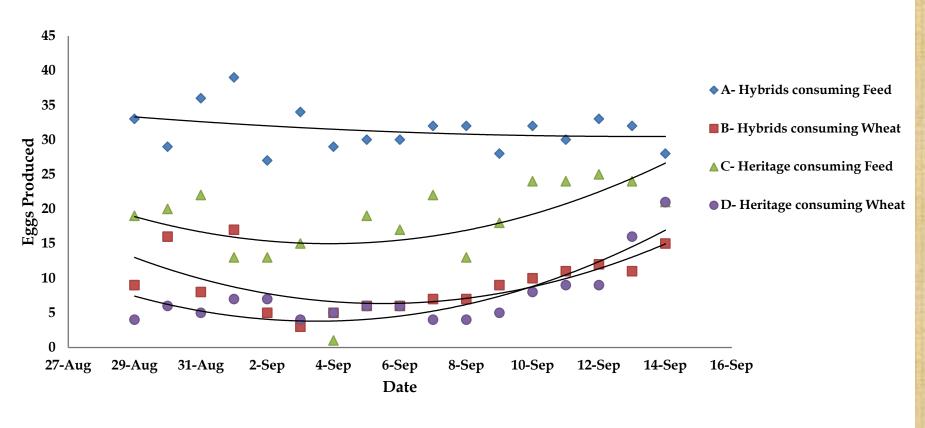


Feed: Hybrids vs. Heritage



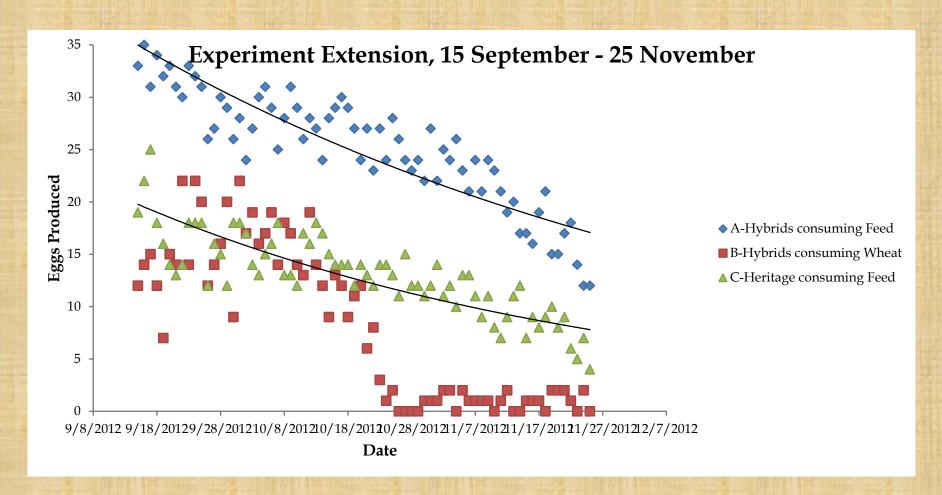
Production in Cooler Weather August 29- September 14



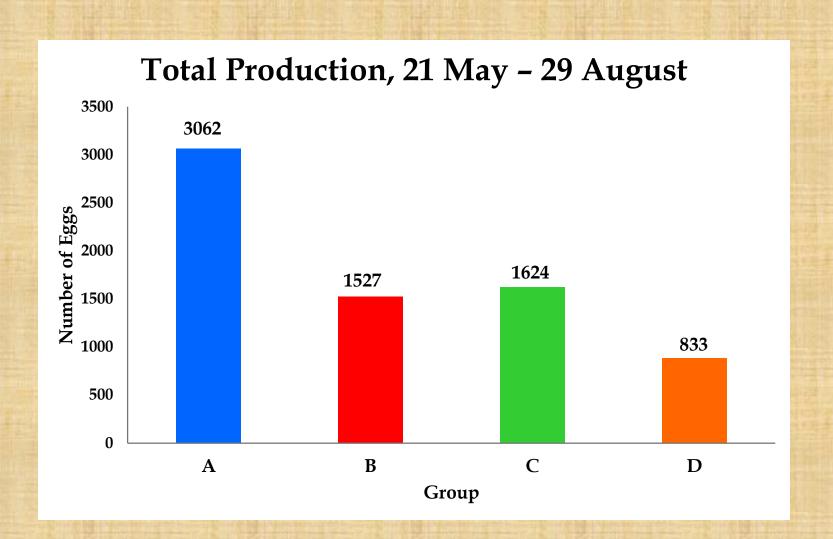


D (Heritage consuming wheat) increased production back to as many as 21 eggs in cooler weather

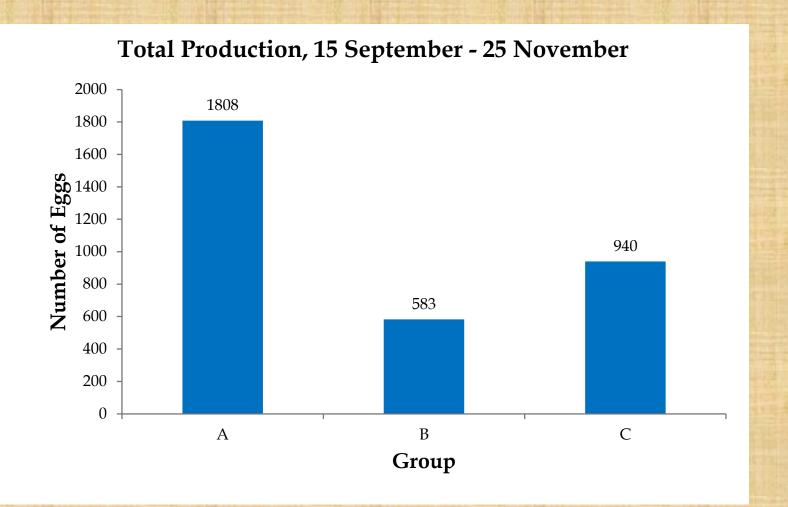
Feed: Hybrids vs. Heritage



Total Eggs Produced



Total Eggs Produced



Feed Cost Effectiveness

	Feed Cost Effectiveness								
	Amount of Feed Consumed Daily (lbs)	Cost per Chicken Pen per Day	Cost Per Chicken per Day	Cost Per Egg	Cost per Dozen				
A	9.5	\$3.60	\$0.09	\$0.128	\$1.54				
В	9.5	\$1.58	\$0.04	\$0.113	\$1.36				
С	13.2	\$4.98	\$0.13	\$0.334	\$4.01				
D	9.5	\$1.58	\$0.04	\$0.207	\$2.48				

Future Direction

BioPodTM

- Using Black Soldier
 Fly larvae
- Feed compost to larvae
- Feed the larvae to Chickens



Future Direction

Red Wiggler Composting Worm



What Can I Feed?

Appendix C: Co	0.28	0.26	0.24	0.22	0.2	0.18	0.16
Approximate Protein (%)	13	14	15.5	17	19	20.5	22.1
Metabolizable Energy (Kcal/Lb)	1227	1227	1275	1295	1295	1295	1318
Calcium (%)	3	3.25	3.5	3.6	3.8	4	4.25
Available Phosphorus (%)	0.35	0.4	0.4	0.42	0.45	0.45	0.47
Sodium (%)	0.17	0.18	0.18	0.19	0.2	0.2	0.22
Amino Acids (% of Diet)							0.22
Argine	0.55	0.6	0.68	0.75	0.82	0.9	0.98
Lysine	0.49	0.56	0.63	0.7	0.77	0.84	0.91
Methionine	0.28	0.31	0.34	0.37	0.41	0.47	0.56
Methionine/Cystine	0.48	0.53	0.58	0.64	0.71	0.8	0.91
Tryptophan	0.1	0.12	0.14	0.15	0.17	0.18	0.2
Histidine	0.13	0.14	0.15	0.17	0.19	0.25	0.25
Leucine	0.64	0.73	0.82	0.91	1	1.09	1.18
Isoleucine	0.43	0.5	0.57	0.63	0.69	0.73	0.82
Phenylalanine	0.34	0.38	0.42	0.47	0.52	0.57	0.61
Phenylalanine+Tyrosine	0.55	0.65	0.75	0.83	0.91	0.99	1.08
Threonine	0.43	0.5	0.57	0.63	0.69	0.73	0.82
Valine	0.49	0.56	0.63	0.7	0.77	0.82	0.91
Vitamins (per Lb)							
Vitamin A (I.U.)				3410			
Vitamin D (I.U.)				1150			
Choline (mg)				550			
Riboflavin (mg)				2			
Pantothenic Acid (mg)				4.5			
/itamin B ₁₂ (mg)				0.005			
Folic Acid (mg)				0.35			
Biotin (mg)				0.07			
Niacin (mg)				18			
/itamin K (mg)				1			
/itamin E (I.U.)				12			
Thiamin (mg)				1			
Pyridoxine (mg)				1.5			
Trace Minerals (PPM)				PPM			
Manganese				70			
ron				80			
Copper				8			
linc				60			
Selenium				0.3			
odine				0.3			

Note: Trace mineral requirements remain the same for all rations.

^{*} The information contained in this table has been obtained from Commercial Poultry Nutrition, by S Leeson and J.D. Summers

Thank You!

