



Fall 2015 Internship

Data Collection Coordinator/Data Analysis

Perdue Farms Inc.

By: Chelsey Clement


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Perdue Farms Inc.

- Three generations
- CEO: James A Perdue
- Annual sales ~ \$6.3 billion
- 19,000 employees
- 60 locations



Arthur W. Perdue Foundation

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How did I come about to this internship?

- Advisor Dr. Wainwright
- First year Perdue offered internship to SU
- Paid \$\$\$\$
- Time spent each week : ~10 – 18 hours per week

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Responsibilities/Tasks

- Data Collection Coordinator
 - Manually entered handwritten data into Excel
- Project Leader for Transfer Payloads
 - Data Analysis

Data Collection Coordinator

Operations Monitoring
Milford DE Plant, P-1318

Date 11-11-15
Shift 1 or 2 (circle one)
Checkers name *Kelvin*

Whole Bird Temperature / Bird Weight / Chiller Temperature		Max Temperature 44.6F (or less)									
Time	Check	Chiller 1 or <input checked="" type="radio"/> 2 (circle one)									
0712	Bird temp	35.2	35.9	34.5	34.8	36.5	38.6	34.7	36.9	35.6	34.3
	Bird weight	40	79.9	40.5	49.1	44.4	46.2	43.5	46	51	47.3

Date	Time	Shift	Chiller	Bird Temp	Bird Temp 2	Bird Temp 3
9/5/2015	659	1	1	38.5	39.9	38.5
9/5/2015	830	1	1	38.1	39	39.2
9/5/2015	924	1	1	36.1	35.6	37.4
9/5/2015	1100	1	1	42.8	36.7	36.7
9/5/2015	652	1	2	40.5	40.5	37.4
9/5/2015	824	1	2	38.3	41	41.7
9/5/2015	915	1	2	40.8	40.1	37.4
9/5/2015	1050	1	2	39.7	37.6	38.7

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Data Analysis

–Purpose

–Key Metrics

Transfer Payload Lbs
Baseline: YTD Sept = 31,139
Goal = 34,000

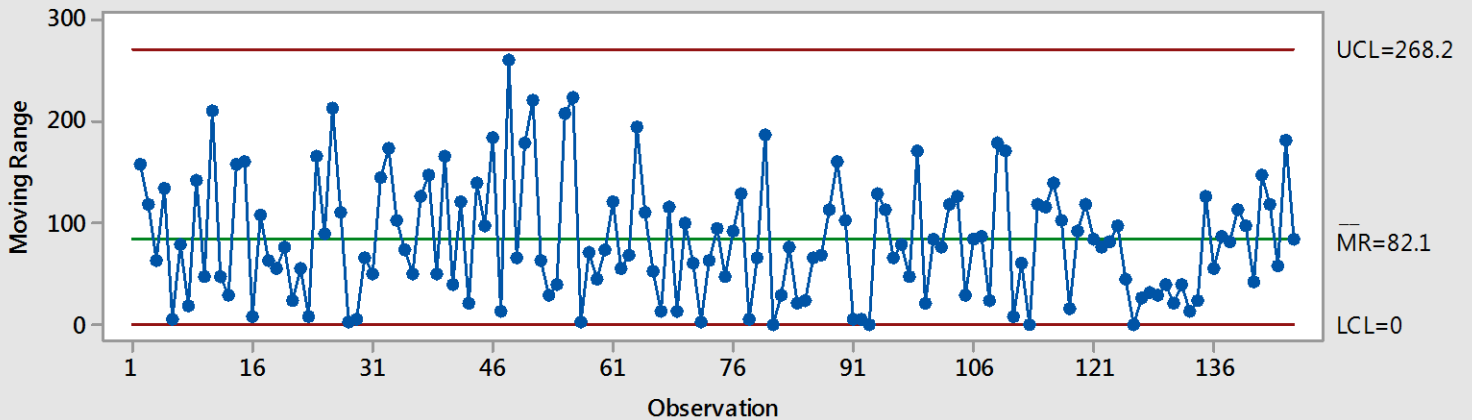
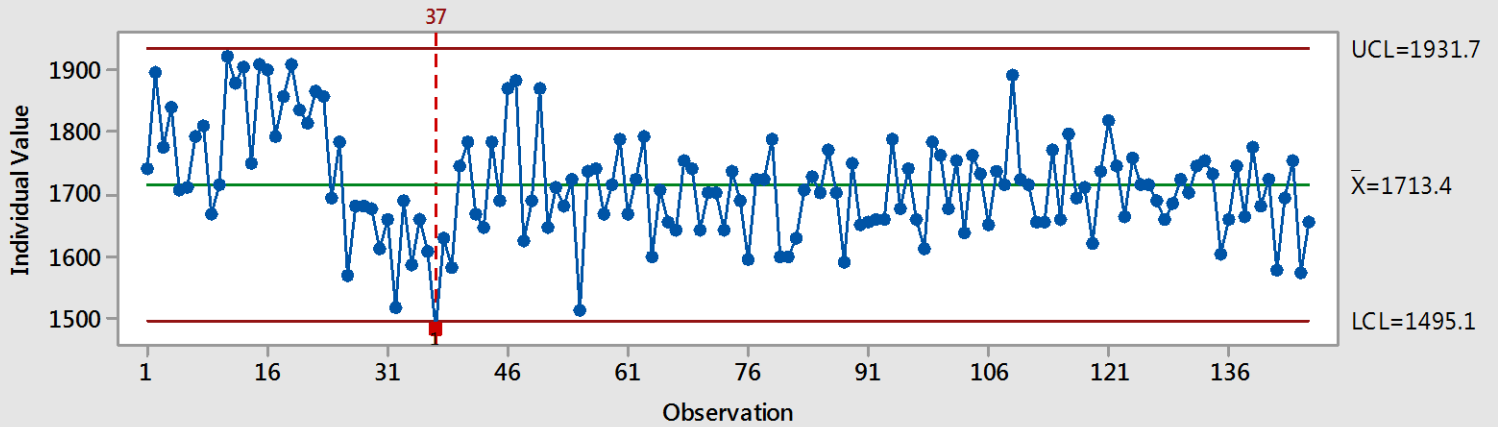
–Goal Impact

Which locations?

Row Labels	Sum of Shipment Net Weight	Average of Shipment Net Weight
Lewiston Prepack Interplant	200,464,020	32,740
Perry GA Plant	145,702,507	35,373
Rockingham Interplant	123,862,341	34,263
Georgetown Interplant	117,716,198	30,864
Milford Interplant	98,618,063	31,926
Accomac Interplant	97,017,741	27,855
Dillon Interplant	68,588,734	33,119
Monterey Interplant	68,264,914	35,481
Cromwell Interplant	65,728,717	32,047
Washington Interplant	59,741,130	30,021
Salisbury Interplant	57,433,833	27,428
Shanadoah-Bridgewater Interplant	49,091,532	28,084
Perry Cook Plant Interplant	47,476,062	26,642
Concord Interplant	31,759,958	31,728
Mid-Atlantic Replenishment Center	26,771,398	14,597
American Cold Storage	21,544,393	36,516

Gold Creek LLC Average Weight per Pallet for Months 4-10

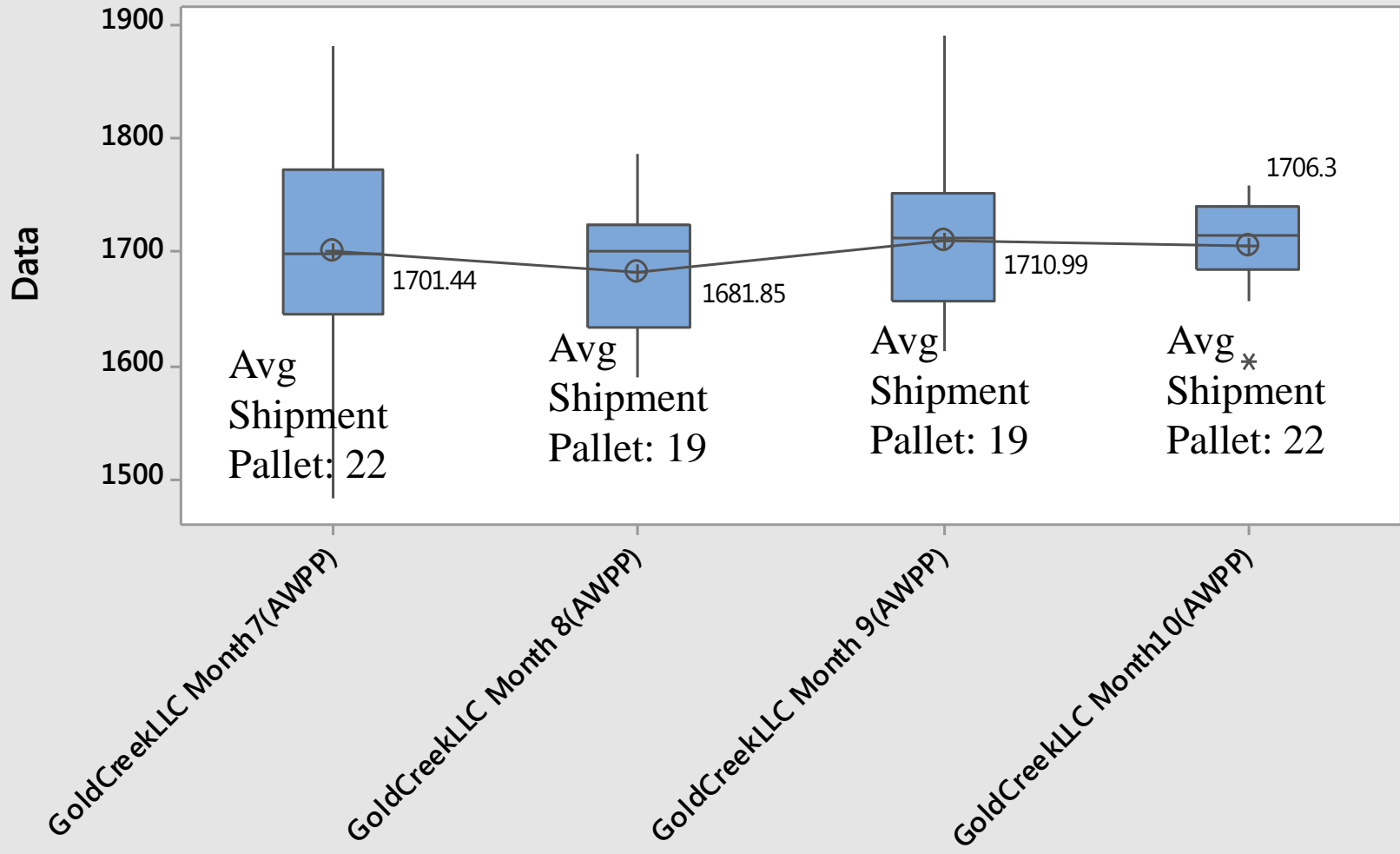
I-MR Chart of Gold Creek IM



Between
Month 7 to
Month 10,
there was a
drop in
average
shipment net
weight.

Pickup Name	Perry GA Plant								
Movement Type	Transfer								
Average of Shipment Net Weight	Column Labels								
Row Labels	4	5	6	7	8	9	10	Grand Total	
Gold Creek Memorial	40859							40859	
Gold Creek Gainesville						40095		40095	
Americold - Leesport	36250	39500	40500	40440	38079	38525		39350	
Flint Rivers Services	37812	38014	38006	38378	37250	38709	36970	37968	
Stanford Refrigerated Warehous	36123	36348	35963	36181	37380	37747	37143	36651	
Lineage Logistics				36402				36402	
Freezer Services - Sebree	32400		35100	35100	35100	35100	35100	34965	
Perry Cook Plant Interplant	32492	33526	34742	35514	35917	37245	31580	34768	
Americold - Charlotte AMCL				36151	22498		36473	34606	
Gold Creek LLC	32918	30833	34146	36694	32561	32734	37150	34397	
Dillon Interplant	27849	23882	31346	31230	32973	34954	34237	32451	
Concord Interplant	35126	31952	27707	30836	39353	30199	26967	32277	
Nashville Refrigerated - Lebanon	31400							31400	
Shanadoah-Bridgewater Interplant	32416	36043	19376	38728	31670	29235	29668	31324	
Burris Logistics	29792	31772	30657	30845	29019	29015		30034	
Burris Elkton MD	30020	25081	30569	28656	29037	29341		28935	
Monterey Interplant	30925	33749	33882	25592	26415	20805	15247	28279	
Richmond Cold Storage-Smithfield	28800			26130				27020	
Burris Logistics Orlando	22059	23803	30912	30513	28728	26385		26846	
Americold - Strasburg	24168	29437	26247	27221	25678	24702	28305	26549	
Americold - Atlanta	22542	25791	26874	26229	27249	24400	27076	25645	
Perdue Innovation Center						23350		23350	
Accomac Interplant	22036							22036	
Mid-Atlantic Replenishment Center					19500			19500	
Rockingham Interplant						460		460	
Grand Total	35003	35869	35431	35580	35018	35719	34396	35375	

Boxplot of GoldCreekLLC, GoldCreekLLC, ...



Month 8

Row Labels	Average of Shipment Net Weight	Average of Shipment Pallets	Avg Wgt Per Pallet
2875400	38326	24	1596.9
2876304	27295	16	1705.9
2877136	36387	22	1654.0
2877914	24614	15	1640.9
2878605	38600	22	1754.5
2879276	10447	6	1741.2
2879381	39410	24	1642.1
2880215	37426	22	1701.2
2880388	37455	22	1702.5
2881687	13115	8	1639.4
2882322	36409	21	1733.8
2883018	27002	16	1687.6
2883121	38301	24	1595.9
2884109	39661	23	1724.4
2884915	39579	23	1720.8
2885620	39288	22	1785.8
2886399	38410	24	1600.4
2887016	17604	11	1600.4
2887143	39062	24	1627.6
2888103	40889	24	1703.7
2888848	39682	23	1725.3
2889646	17033	10	1703.3
2890319	40662	23	1767.9
2890977	13607	8	1700.9
2891082	38158	24	1589.9
Grand Total	32560.76923	19.42307692	1676.4

Month 9

Row Labels	Average of Shipment Net Weight	Average of Shipment Pallets	Avg Wgt Per Pallet
2892187	42003	24	1750.1
2892362	39560	24	1648.3
2893228	23156	14	1654.0
2893999	39800	24	1658.3
2894619	9955	6	1659.2
2895488	39282	22	1785.5
2896412	40197	24	1674.9
2896454	38253	22	1738.8
2897303	38178	23	1659.9
2897438	38688	24	1612.0
2897784	21380	12	1781.7
2897790	12331	7	1761.6
2898137	35227	21	1677.5
2898868	40312	23	1752.7
2898983	39271	24	1636.3
2899211	21132	12	1761.0
2899848	41603	24	1733.5
2900706	39622	24	1650.9
2901194	36471	21	1736.7
2901598	23993	14	1713.8
2902202	37806	20	1890.3
2902389	30973	18	1720.7
2903139	20554	12	1712.8
2903260	39685	24	1653.5
2904035	39692	24	1653.8
2904336	38976	22	1771.6
2904862	39786	24	1657.8
2905521	14368	8	1796.0
2906304	40665	24	1694.4
2907012	11972	7	1710.3
2907124	38839	24	1618.3
2907611	38171	22	1735.0
2908011	43629	24	1817.9
2908851	41846	24	1743.6
2909706	8310	5	1662.0
Grand Total	32733.88571	19.17142857	1707.4

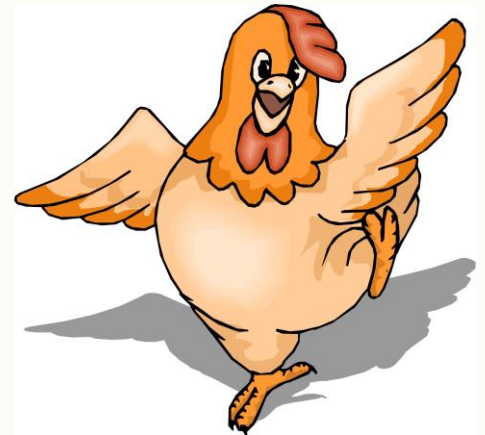
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How did I get to that?

- Excel
 - Where data is stored and manipulated
 - Pivot tables
- Minitab
 - Graphs

Challenges

- Excel
- Hours
- Demand for results



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Classroom Experience

- Math 411 (Design/Analysis of Experiments)
- Hypothesis Testing
- Minitab



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What did I learn?

- Importance of Pivot Tables
- Time Management
- Thinking “outside the box”
- How important statistics is in the real world



Questions?



I ♥ Chickens

