# Analyzing Hospitals for Orthopedic Sales in the Eastern United States.

# By Michael Candella

**Executive Summary:** In this report we are looking to find our target audience for an upcoming push to sell our orthopedic equipment. Although most selling efforts would eventually increase our profits, it is important to find the demographic that will yield the greatest return. Using various statistical methods, such as factor analysis, clustering and regression, we were able to find an ideal target market and the expected sales from that market.

#### Introduction:

Identifying a target market in a huge valley of options can be a daunting task. The initial data-set contained 4703 observations, but for our analysis, a sample was taken from the original data-set comprised of 24 states, mainly eastern states, and 2227 hospitals. With this minimized data-set, I focused on our goal of finding sub-groups that are more likely to align with the business objective of finding new potential sales and ultimately maximizing profits.

The states selected are: MA, RI, NH, ME, VT, CT, NJ, NY, PA, DE, MD, DC, VA, WV, NC, SC, GA, FL, AL, MO, TN, MS, KY, OH

The variables in the dataset are: ZIP (Zip Code of Hospital), HID (Hospital ID), CITY (City of Hospital), STATE (State of Hospital), BEDS (No. of Beds), RBEDS (No. of Rehab Beds), OUTV (No. of Outpatient Visits), ADM (Administrative Costs in Thousands of Dollars), SIR (Revenue from Inpatients), SALESY (Sales in Rehab Equipment since Jan 1), SALES12 (Sales in Rehab Equipment in the Last 12 months), HIP95 (No. of Hip Operations for 1995), KNEE95 (No. of Knee Operations in 1995), TH (Whether The Hospital is a Teaching Hospital, 0 = No, 1= Yes), TRAUMA (Whether the Hospital has a Trauma Unit, 0 = No, 1 = Yes), REHAB (Whether the Hospital has a Rehab Unit, 0 = No, 1 = Yes), HIP96 (No. of Hip Operations of 1996), KNEE96 (No. of Knee Operations of 1996), FEMUR96 (No. of Femur Operations of 1996). Since ZIP, HID, CITY, and STATE are categorical variables, it doesn't make sense to transform them. The variable BEDS had a bell-shaped distribution that is very much left-skewed. The transformation BEDS = Log (1 + 0.1 \* BEDS) corrected this. The variable RBEDS had a distribution that became normal once the transformation RBEDS = -RBEDS ^ (-0.25) was applied. The variable OUTV had an approximately log-normal distribution that was corrected into a normal distribution once the transformation OUTV = Log (OUTV) was applied. ADM had a left-skewed bell-shaped distribution that was corrected into a normal distribution once the transformation ADM = log (1 + 0.001 \* ADM) was applied. The variables SIR, SALESY, SALES12, HIP95, KNEE95, HIP96, KNEE96, and FEMUR96 were all approximately log-normal in their distributions, and were corrected into normal distributions with SIR = LOG (SIR), SALESY = LOG (SALESY), and so on. The variables TH, TRAUMA, and REHAB are categorical 0/1 variables and thus it does not make sense to transform them.

#### Part 1: Analysis

To first find the most optimal model for our selection, we must reduce the number of variables we use in our estimation. Even though the number of variables may help us obtain a larger R-squared value, with each additional variable we add we risk multicollinearity which would give us artificially inflated significance. From the start, we have 15 variables to work with which is way too much for any accurate results and our first task is to reduce these variables down to around two or three variables.

To reduce our model we must introduce the process of dimensionality reduction. The goal is to run a factor analysis on all the variables and see which values can be combined to create new, more grouped variables which keep information while also lowering the mathematical planes our data exists on. A general rule of thumb is that you want to omit any factors with a Correlation Matrix Eigenvalue less than 1, as they do not represent enough variance in our factors to include.

We must first separate our data set into three groups, The Response Variables (Places which have sales and places which don't), the Dependent Variables, and The Operation Numbers. Running Proc FACTOR for our Dependent Variables we get (*Table 1*). Taking a look at the Eigenvalues, we note that only the first two are significant, with the first having an Eigenvalue of 3.88 and the second with an Eigenvalue of 1.46.

With this information we can simply assume that this data only requires two factors as the other factors are statistically insignificant as they are lower than one. Sorting these factors into two groups creates the following breakdown of the factor scores(*Table 2*): The variables BEDS, RBEDS, OUTV, ADM, SIR, and REHAB are better representations of factor 1, while TH, and TRAUMA are better representations of factor 2. Since all the variables in factor 1 represent the size and population of the hospital we can consider factor 1 to be representative of the size of the hospital. The variables in factor 2 represent dummy variables that tell us whether or not the hospital is a specialty form of hospital, so factor 2 can be described as whether or not the hospital is a specialty hospital.

For the Operation Variables we see the following (*Table 3*): With this procedure, only one factor has a significant Eigenvalue, with a value of 2.62, while the others do not. Thus, the grouping of the operation variables will fall into only one factor. Since we only have one factor we denote this factor as the factor that represents the number of surgery.

With these factors we can now begin to separate hospitals into clusters. Finding the clusters of the factors allow us to select an ideal subgroup to focus on, in our overall goal of discovering potential sales. After clustering the factors using Proc CLUSTER, it appears that the best cluster to target would be cluster 5. It has a mean of sales are acceptable at 2.822 with the transformed variables (*Table 4*). After undoing the transformation on the mean of sales, we obtained a value of 15.993, in thousands of

dollars. Additionally, it had a moderately-high frequency, with a count of 158 hospitals and 73 of those hospitals had sales not equal to 0. This is important because when calculating the mean of sales, we want the sales to be spread across multiple hospitals, instead of having a handful of hospitals produce all of the sales.

#### Part 2: Prediction

Using cluster 5 as our target cluster, we want to then predict the potential sales for each hospital in the segment of the data. To do so, we run a regression using Proc REG, with sales as our response variable and the three factors as the dependent variables. Furthermore, we implemented the backward elimination method, in our regression, to prevent the potential issue of multicollinearity and to remove any insignificant factors from our model. After running the regression, it appears that factors 2 and 3 were not significant variables for predicting sales and were left with the prediction equation of:

**SALES = 
$$2.884 + 0.878(Factor1) + e$$
 (*Table 5*)**

We also produced a list of all the hospitals in our targeted cluster and used our prediction to calculate an expected gain. So, if we were to focus on selling our orthopedic products to these hospitals in cluster 5, we can expect a gain of 145.13, in thousands, in the sales of next year (*Table 6*). One could highlight that looking at the hospitals that have a negative residual (RESID) or no residual, because their sales were equal to 0 in the previous year, could be helpful in determining which hospitals have high potential for an increase in sales. From our results, this holds true and it is noted that the gain would be 1681.40, in thousands, from this subgroup of hospitals alone.

#### Conclusion:

After reducing our data-set from over 4000 observations from almost all states to 2227 from just 25 states, we then reduced the dimensionality of our data with the use of factor analysis. We started out with 15 variables, but reduced it to three factors: Factor 1 being the Number of Surgeries a hospital has, Factor 2 being the Hospital's Specialty, and Factor 3 being the Size and Wealth of the hospital. Then we analyzed the clusters that were generated from these factors and found cluster 5 to be an ideal subgroup to target. Using cluster 5 as our focus, we estimated a gain of 145.13 thousand dollars in potential sales for the next year.

# Appendix:

# Table 1:

#### The FACTOR Procedure Initial Factor Method: Principal Components Prior Communality Estimates: ONE Eigenvalues of the Correlation Matrix: Total = 8 Average = 1 Eigenvalue Cumulative Difference Proportion 3.87802755 0.4848 2.41335342 0.4848 1.46467413 0.6678 0.53845370 0.1831 3 0.92622044 0.16015732 0.1158 0.7836 0.76606312 0.20172031 0.0958 0.8794 0.56434281 0.0705 0.9499 0.35531628 6 0.20902653 0.07498713 0.0261 0.9760 0.13403940 0.07643338 0.0168 0.9928 0.05760602 0.0072 1.0000

### Table 2:

Factor Pattern						
	Factor1	Factor2				
BEDS	0.90095	-0.26368				
RBEDS	0.36357	-0.19005				
OUTV	0.60658	-0.44178				
ADM	0.93255	-0.15058				
SIR	0.83724	0.02738				
TH	0.69598	0.64987				
TRAUMA	0.53931	0.76393				
REHAB	0.46940	-0.36676				
/ariance Exp	olained by	Each Facto				
Fact	tor1	Factor				
3.8780	276	1.464674				

Table 3:

		The FACTOR F tor Method: Pri Communality E	ncipal Compor	
Eig	envalues of the	Correlation M	atrix: Total = 4	Average = 0.8
	Eigenvalue	Difference	Proportion	Cumulative
1	2.62324766	1.63974294	0.6558	0.6558
2	0.98350472	0.68600824	0.2459	0.9017
3	0.29749648	0.20174534	0.0744	0.9761
4	0.09575114	0.09575114	0.0239	1.0000
5	0.00000000		0.0000	1.0000

Table 4:

mf.	mf2	mf1	msales	_FREQ_	_TYPE_	CLUSTER	Obs
2.8438	-1.04597	-1.03274	3.79090	127	0	1	1
-0.6506	-0.23339	0.45020	3.33770	383	0	2	2
-0.6078	-0.29583	-0.37477	2.54475	445	0	3	3
-0.0996	-0.98755	-1.06890	1.46797	224	0	4	4
-0.3787	-0.86359	-0.14014	2.82181	158	0	5	5
-0.3008	0.10801	1.38995	4.09237	152	0	6	6
-0.4627	0.80712	0.28248	3.46732	127	0	7	7
-0.3438	0.81830	-0.65607	2.74318	184	0	8	8
-0.2832	2.03856	-0.20535	3.55298	103	0	9	9
1.3237	0.07710	0.86210	3.51187	71	0	10	10
0.7174	-0.91053	3.16677	3.95752	48	0	11	11
1.5286	1.39162	0.61145	3.80799	118	0	12	12
1.5356	2.64547	-0.33467	3.80956	46	0	13	13
1.2774	0.05447	-0.62747	2.39343	37	0	14	14
2.7370	-4.40429	8.76189	4.65515	4	0	15	15

# Table 5:

	- 1	Analysis of Va	ariance		
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9.81609	9.81609	6.72	0.0116
Error	71	103.72981	1.46098		
Corrected Total	72	113.54590	-		

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	2.88426	0.14351	590.16595	403.95	<.0001
Factor1	0.87781	0.33865	9.81609	6.72	0.0116

# Table 6:

Obe	_NAME_	ZIP	CITY	STATE	HID	SALES12	PRED	STDP	RESID	rowp	epred	galn
1	OB761	37841	Oneida	TN .	109352	189	2.67963	0.15173	2.56739	13.7485	13.5797	-175.251
2	OB209	13126	Oswego	NY	390021	194	3.17087	0.19532	2.10213	23.2871	22.8282	-170.713
3	OB154	10128	New Yark	NY	274021	193	3.45999	0.28396	1.80787	32.1254	30.8165	-160.875
4	OB955	64836	Carthage	MO	009063	124	2.53489	0.17963	2.29342	11.8202	11.6150	-112.180
5	OB490	28721	Clyde	NC	154036	120	3.06259	0.16924	1.73320	20.6912	20.3828	-99.309
6	OB741	37066	Gallatin	TN	029752	100	3.06969	0.17076	1.54543	20.8516	20.5353	-79.148
7	OB205	12816	Cambridg	NY	116021	87	2.51761	0.18381	1.95973	11.6101	11.3989	-75.390
8	OB598	32578	Nicevill	FL	087339	85	2.59807	0.16613	1.85827	12.5973	12.4110	-72.403
9	OB724	35957	Boaz	AL	030853	90	2.96298	0.15159	1.54788	18.5792	18.3555	-71.421
10	OB238	14760	Olean	NY	378021	101	3.62282	0.33987	1.00216	38.6691	36.4429	-62.331
11	OB2207	64850	Neosho	MO	076063	69	2.52936	0.18096	1.71913	11.7526	11.5455	-57.247
12	OB1459	19047	Langhom	PA	903023	60	3.05569	0.16779	1.05518	20.5370	20.2359	-39.463
13	OB2201	64701	Harrison	MO	023163	55	2.83255	0.14153	1.19280	16.1598	15.9888	-38.840
14	OB1735	30535	Demorest	GA	049538	49	2.59810	0.16572	1.31392	12.6240	12.4382	-36.376
15	OB1882	35976	Guntersv	AL	051253	57	3.18178	0.19824	0.87866	23.5676	23.0896	-33.432
16	OB2168	63385	Wentzvil	MO	145063	43	2.48469	0.19024	1.29950	11.2210	10.9975	-31.779
	OB1157	03584			-	42						-29.901
17			Lancaste	NH	021012		2.55731	0.17443	1.20389	12.0988	11.9011	
18	OB1097	01082	Ware	MA	210014	36	2.35884	0.22785	1.25208	9.8589	9.5787	-26.143
19	OB1442	18201	Hazleton	PA .	098023	44	3.05578	0.16781	0.75089	20.5388	20.2377	-23.461
20	OB1840	33830	Bartow	FL.	001039	34	2.65058	0.15613	0.90476	13.3380	13.1623	-20.684
21	OB2196	64429	Cameron	MO	006363	33	2.64133	0.15768	0.88503	13.2073	13.0318	-19.793
22	OB1787	32541	Destin	FL	016839	29	2.52622	0.18171	0.87498	11.7143	11.5061	-17,286
23	OB1160	03860	North Co	NH	033012	25	2.41341	0.21175	0.84469	10.4253	10.1720	-14.575
24	OB1154	03458	Peterbor	NH	034012	21	2.46080	0.19852	0.63025	10.9473	10.7141	-10.053
25	OB1402	15963	Windber	PA	352023	25	2.76593	0.14310	0.49216	15.0575	14.8939	-9.943
26	OB2060	43078	Urbana	OH	223541	23	2.63204	0.15929	0.54601	13.0796	12.9021	-9.920
27	OB2094	44041	Geneva	OH	137641	19	2.34807	0.23112	0.64766	9.7486	9.4653	-9.251
28	OB159	10512	Carmel	NY	120021	42	3.55889	0.31761	0.20231	35.9413	34.1243	-6.059
29	OB877	44601	Aliance	OH	008041	30	3.22906	0.21142	0.20493	24.8267	24.2559	-5.173
30	OB2152	45828	Caldwate	OH	094741	22	2.87586	0.14299	0.25983	16.9194	16.7372	-5.081
31	OB1945	37854	Rockwood	TN	115052	20	2.78013	0.14238	0.26439	15.2854	15.1211	-4.715
32	OB2000	39564	Ocean Sp	MS	088554	14	2.39945	0.21579	0.30860	10.2766	10.0171	-3.723
33	OB720	35661	Muscle S	AL	090A53	33	3.38754	0.26009	0.13882	29.6113	28.5932	-3.389
34	OB1177	04543	Damarisc	ME	022011	16	2.74173	0.14480	0.09148	14.6774	14.5139	-1.323
35	OB2109	44484	Warren	OH	229241	22	3.09738	0.17696	0.03812	21.4892	21.1398	-0.511
36	OB1838	33814	Tampa	FL.	923539	32	3.47972	0.29058	0.01679	32.8501	31.4507	0.850
37	OB1907	37075	Henderso	TN	074552	16	2.90301	0.14490	-0.06980	17.4213	17.2289	1.421
38	OB2010	40031	La Grang	KY	037051	9	2.53278	0.18013	-0.23019	11.7943	11.5884	2.794
39	OB1656	28804	Banner E	NC	018036	. 7	2.39369	0.21747	-0.31424	10.2159	9.9538	3.216
40	OB1197	05753	Middlebu	VT	012013	9	2.56983	0.17165	-0.26725	12.2575	12.0636	3.257
41	OB457	27103	Winston	NC	168636	20	3.19886	0.20230	-0.15214	23.9562	23.4507	3.956
42	OB2187	84085	Richmond	MO	081863	7	2.46857	0.19643	-0.38913	11.0355	10.8055	4.036
43	OB2184	64024	Excelsio	MO	016063	6	2.42303	0.20900	-0.47712	10.5291	10.2800	4.529
44	OB888	45177	Wilmingt	OH	234541	22	3.33162	0.24228	-0.19813	27.8171	26.9837	5.817
45	OB1897	36535	Foley	AL	044653	9	2.75900	0.14353	-0.45641	14,9474	14.7840	5.947
46	OB2061	43113	Circlevi	OH	063041	5	2.46617	0.19707	-0.67441	11.0082	10.7772	6.008
47	OB1587	25526	Hurrican	WV	216435	6	2.56245	0.17328	-0.61654	12.1637	11.9676	6.164
48	OB1333	13089	Fulton	NY.	163021	9	2.80547	0.14161	-0.50289	15.7015	15.5349	6.702
49	OB1995	39501	Gulfport	MS	029554	6	2.61121	0.16314	-0.66530	12.7980	12.6156	6.798
50	OB1944	37814	Morristo	TN	090052	8	2.76591	0.14310	-0.56869	15.0571	14.8935	7.057
51	OB1483	19460	Phoenixv	PA	239023	16	3.18942	0.20032	-0.35620	23.7662	23.2743	7.766
52	OB2071	43351	Upper Sa	OH	222541	2	2.39217	0.21791	-1.29356	10.2000	9.9372	8.200

54   C82117   44820   Bucynus   CH   C24041   3   2.53776   0.17886   -1.15146   11.8555   11.8513   0.855     55   C62039   43326   Kernton   CH   147041   1   2.30500   0.22136   -1.86735   10.0784   8.8103   9.078     57   C81203   08098   Winsted   CT   C82016   3   2.58702   0.17227   -1.18072   12.2216   12.0289   9.222     58   C81838   34642   Seminide   FL   C98009   . 2.35566   0.23485   . 9.6284   8.3394   9.6265     59   C81839   34642   Seminide   FL   C98009   . 2.35566   0.23485   . 9.6284   8.3394   9.6265     50   C81990   28512   Bernettel   SC   C000037   2 . 2.53866   0.73747   -1.44005   1.1866   1.18627   9.867     50   C81990   28051   Bernettel   SC   C000037   2 . 2.53866   0.73747   -1.44005   1.1866   1.18627   9.867     51   C81579   24651   Taxerwell   VA   117534   . 2.39849   0.22554   . 9.9345   9.6599   9.935     52   C81602   27549   0.02450   N. 1   1.7534   . 2.29867   0.22554   . 9.9345   9.6599   9.955     52   C81602   27549   0.02450   N. 1   2.48620   0.19414   -1.78606   0.9832   0.7036   9.963     53   C81004   0.1056   0.04500   N. 4   1.25014   . 2.29867   0.22554   . 9.9870   9.6339   9.967     54   C81778   20034   Ferrand   FL   0.00039   . 2.37554   0.22434   . 10.0067   2.7354   0.0067   0.9633   9.967     55   C62119   44830   Foddridis   CH   1.32541   . 2.3967   0.22526   . 10.10119   7.706   10.012     56   C62177   63870   Sin-Gene   M. O. 903183   . 2.37405   0.22236   . 10.10119   7.706   10.012     57   C61926   37356   Marchant   TN   0.08652   . 2.3864   0.21947   . 10.1070   9.9877   10.0170   9.9877			04570	l mer			21	0.45477		4.00040	40.0457	40.0000	0.040
55   CR2068   43326   Karston   CH   447041   1   2.30560   0.22136   -1.68735   10.0784   9.8103   9.078   55   CR2133   40238   Crincina   CH   506041   3   2.59680   0.17406   -1.77244   12.1158   17.920   9.179   9.257   7.59730   9.8051   9.2014   9.2014   9.9014	53	OB1110	01570	Webster	MA	213014	2	2,45177	0.20096	-1.35316	10.8457	10.6089	8.846
Section   Continue							222						
ST   C61203   C6066   Winsted   CT   C60016   S   2.68702   C17227   -1.18072   12.2216   12.0266   9.222   S   C61848   34642   Scientrick   F   C600037   2.230560   C.23483   C7744   -1.4005   11.8666   11.8627   9.8675   C60   C61950   30054   Millingt   TN   C604052   2.39141   C.22707   9.8229   9.0059   9.835   C61   C61579   26551   Tazewell   VA   177534   2.36849   C.22554   9.8329   9.0059   9.835   C61   C61579   26551   Tazewell   VA   177534   2.36849   C.22554   9.8029   9.9059   9.835   C61   C61579   26551   Tazewell   VA   177534   2.36849   C.22554   9.9070   9.9639   9.935   C61064   C61670					-	-							
58					-	-	- 27		-				
55   C61699   29812   Bermetts   SC   C08037   2   2.58866   0.17874   -1.44005   11.8666   11.6927   9.867   60.09190   39054   Millingt   TM   C08052   2.29814   0.22707   9.9829   8.0596   9.855   61.09187   2.4851   0.25254   9.9345   8.0596   9.855   62.09182   2.7549   Luxisbur   NC   C094536   1   2.48220   0.19814   -1.76906   10.9832   10.7306   9.963   65.0918   0.1066   0.1066   0.1066   0.1066   0.1066   0.1066   0.1066   0.1067   0.2545   0.9983   0.9987   0.2545   0.9983   0.9987   0.2545   0.9983   0.9987   0.2545   0.9983   0.9987   0.2545   0.9983   0.9983   0.9987   0.2545   0.9983   0.9987   0.2545   0.9983   0.9983   0.9987   0.2545   0.9983   0.9983   0.9987   0.2545   0.9983   0.99	-	100000000000000000000000000000000000000		200000000000000000000000000000000000000	1000	2222	3		100,000	-1.18072		100000000000000000000000000000000000000	5.5.555
60   C61990   30054   Millingt   TN   C64052   2.36141   0.22707   9.8829   9.8056   9.805     61   C61579   32651   Tazewell   W.   117534   2.36689   0.22554   9.3345   9.6959   9.955     62   C61602   27549   busher   N.C   C64508   2.46220   19.814   17806   10.6821   0.705   9.803     63   C61004   01056   1400w   MA   125014   2.2967   0.22554   9.870   0.6833   9.967     64   C61768   30034   Fernand   .							1,111						
CB1579   24651   Tizerswell   VA   117534   2.38649   0.22554   9.8345   0.65696   9.935							2			-1.44005			
\$2 C81622 27548 Louisbur NC 094536 1 2.48220 0.19814 -1.78606 10.9832 10.7306 9.983   \$3 C81094 01056 Ludiow MA 125014 . 2.99867 0.22459 . 9.8670 8.6938 9.987   \$4 C8178 20294 Fernand FL 000019 . 2.27354 0.22324 . 10.0067 8.7354 10.007   \$5 C82119 44830 Festoris CH 132541 . 2.37405 0.22326 . 10.0119 9.7406 10.012   \$6 C82117 63670 Size Gene MO 093163 . 2.37917 0.22159 . 10.0703 8.0018 10.072   \$6 C82117 63670 Size Gene MO 093163 . 2.39917 0.22159 . 10.0703 8.0018 10.073   \$6 C82117 50570 Size Gene MO 093163 . 2.39917 0.22159 . 10.0703 8.0018 10.075   \$6 C81873 36830 Fizerrox AL 806653 14 3.20381 0.20426 -0.49576 24.1453 2.6261 10.145   \$6 C81873 36830 Fizerrox AL 806653 14 3.20381 0.20426 -0.49576 24.1453 2.6261 10.145   \$6 C81434 17756 Murry PN 148023 . 2.39130 0.21817 . 10.1909 9.9277 10.191   \$7 C81860 29862 Supply NC 135036 . 2.39557 0.21662 . 10.2357 9.9745 10.236   \$7 C81860 32665 Sizeby NC 135036 . 2.39557 0.21662 . 10.2357 9.9745 10.236   \$7 C81860 32665 Sizeby CH 201041 4 2.72221 0.14659 -1.11276 14.3763 1.2460 10.376   \$7 C81166 0.9515 Sireby CH 201041 4 2.72221 0.14659 -1.11276 14.3763 1.2410 10.376   \$7 C81166 0.9515 Seffets ME 0.10165 . 2.49695 0.21275 . 10.3862 10.1334 10.386   \$7 C81166 0.9515 Seffets ME 0.10165 . 2.49695 0.21275 . 10.3862 10.1334 10.386   \$7 C81167 0.95130 Sireby CH 201041 . 2.41248 0.21202 . 10.4154 10.1617 10.415   \$7 C811278 10.522 Dobber F NY 146021 . 2.44540 0.2068 . 10.0216 10.0376 10.0376   \$7 C81167 0.95130 Sireby CH 201041 . 2.44248 0.2068 . 10.0216 10.0376 10.0376   \$7 C81167 0.95130 Sireby CH 201041 . 2.44250 0.20077 . 10.3565 10.0365 10.0365   \$7 C81167 0.95130 Sireby CH 201041 . 2.44248 0.20077 . 10.3565 10.0365 10.0365   \$7 C81167 0.95130 Sireby CH 201041 . 2.44248 0.20080 . 10.0214 10.1617 10.415   \$7 C81137 0.9522 Dobber F NY 146021 . 2.44550 0.20077 . 10.3566 10.0376   \$7 C81197 0.9522 Dobber F NY 146021 . 2.4456 0.20077 . 10.5566 10.0376   \$7 C81197 0.9522 Dobber F NY 146021 . 2.4456 0.20077 . 10.5566 10.0376   \$8 C81830 3476 Perhobe CH NY 140023 . 2.4566 0.200	-		-		1,71,71,11		- 34				22.000		100000000000000000000000000000000000000
CB 1084		1000	1000000	-17/1-1000-0	- 12				100000000000000000000000000000000000000	+3			610000
Feb   CRE			-		-		1		-	-1.76906			
FS   CR2119   44830   Festoria   CPH   132541   2.37405   0.22328   10.0119   9.7406   10.012     FO   CR2177   63670   Sie Gene   MO   0.93183   2.37971   0.22159   10.0170   9.8018   10.070     FO   CR31928   37355   Manchest   TN   0.08682   2.38984   0.21945							74.			- 20			
66   CB2177   63670   Sie Gene   MO   OS3163		-				-							
67   Cel1926   37355   Marichiest   TN   088652   2.38694   0.21945   10.1453   9.8801   10.1455   68   Cel1873   36803   Florence   AL   805653   4.320381   0.20426   0.49576   24.1453   23.6281   10.145   65   Cel1434   17756   Muricy   PA   148023   2.39130   0.21817   10.1906   9.9277   10.1917   70   Cel1660   28462   Supply   NC   135036   2.3957   0.21807   10.1906   9.9277   10.1917   70   Cel1660   28462   Supply   NC   135036   2.3957   0.21802   10.2255   10.0285   10.2857   71   Cel1794   43452   Part Cii   CH   199041   2.40123   0.21527   10.2955   10.0386   10.286   73   Cel1794   43452   Part Cii   CH   199041   2.40123   0.21527   10.2955   10.0386   10.286   73   Cel1724   44875   Shrebly   CH   201041   4.24018   0.18919   -1.80305   11.3554   11.1362   10.357   73   Cel2724   44875   Shrebly   CH   201041   4.24966   0.21275   1.10.3882   10.1334   10.388   75   Cel1186   0.9915   Selfisst   ME   0.12011   2.41248   0.21202   10.4154   10.1617   10.415   75   Cel1786   0.0533   Dahloneg   CA   0.46436   2.43154   0.20860   10.8216   10.706   10.707   10.415   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.707   10.858   10.807   10.708			0.000000		1222		38.		720000000000000000000000000000000000000	+3			
68		-			-	-	13.0			- 1		- 2200	
68			_	Manchest						- 20			
70	-			Florence	-		14			-0.49576			100000
71	-				-	148023	38	200000000000000000000000000000000000000	12000	+3		20000	
72			4	Supply	-	135036	19.	2.39557			- 32.2.2.2.2.	9.9745	
73         OB2124         44875         Shelby         OH         201041         4         2.7221         0.14859         -1.11276         14.3783         14.2140         10.388           74         OB2163         83141         Cheve Co         MO         101083         .2.40995         0.21275         .10.3882         10.1334         10.388           75         OB186         O4915         Beffest         ME         012011         .2.41248         0.21202         .10.4154         10.1617         10.432           76         OB1734         30533         Dahloneg         GA         046438         .2.43154         0.2086         .10.768         10.5296         10.5796           77         OB1927         37879         32.20         Dable Fe         NY         148021         .2.43494         0.20266         .10.7685         10.5983         10.8168           79         OB1947         37879         32.20         32.20         2.44396         0.20172         .10.856         10.856         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.858         10.8		OB2074		Port Cli	OH		740	2.40123		- 20	10.2955	10.0368	
74         OB2163         63141         Creve Co         MO         101083         . 2.40985         0.21275         . 10.3882         10.1334         10.388           75         OB1186         O4915         Belfast         ME         O12011         . 2.41248         0.21202         . 10.4154         10.1617         10.415           76         OB1734         30533         Dahloneg         GA         0.46438         . 2.413154         0.20680         . 10.6216         10.3764         10.6276           77         OB1278         10522         Dobbs Fe         NY         146021         . 2.44494         0.20286         . 10.6216         10.3764         10.626           78         OB231         14424         Carands         NY         118021         24         3.53022         0.30774         0.31134         34.7865         33.1314         10.786           80         OB1947         37879         Tazerwell         TN         122252         2.44836         0.20172         10.8584         10.6180         10.868           80         OB1504         2.45256         0.20077         10.8584         10.6180         10.858           82         OB1830         33476         Palrokee         F	72	OB1890	36265	Jacksonv	AL	053553	1	2.49619	0.18919	-1.80305	11.3554	11.1362	10.355
75 OB1186 04915 Belfast ME 012011 . 2.41248 0.21202 . 10.4154 10.1617 10.415 76 OB1734 30533 Dahloneg GA 048438 . 2.43154 0.20680 . 10.6216 10.3764 10.622 77 OB1278 10522 Dobbs Fe NY 146021 . 2.44494 0.20286 . 10.705 10.5296 10.707 78 OB231 14424 Carandai NY 148021 . 2.43502 0.30774 -0.31134 34.7865 33.1314 10.786 79 OB1947 37879 Taxewell TN 122252 . 2.44836 0.20192 . 10.8076 10.5693 10.808 80 OB1190 05060 Randolph VT 020013 . 2.45256 0.20077 . 10.8546 10.6180 10.855 81 OB1564 24219 Big Ston VA 005534 . 2.45267 0.20086 . 10.8511 10.6217 10.858 82 OB1800 33476 Pshokee FL 073099 . 2.45966 0.20011 . 10.8815 10.6660 10.881 83 OB1451 18857 Tunkharun PA 140523 . 2.45904 0.19900 . 10.9274 10.6993 10.8086 84 OB1159 03766 Lebanon NH 022012 . 2.46520 0.19733 . 10.9972 10.7656 10.997 85 OB1682 27910 Ahoskie NC 000336 . 2.47451 0.19465 . 11.1035 10.8759 11.103 87 OB1960 38242 Paris TN 109562 . 2.48999 0.19105 . 11.2710 11.0491 11.271 88 OB1367 14551 Sodus NY 462021 . 2.48916 0.1910 . 11.2731 11.0591 11.273 89 OB1312 11944 Greenpor NY 177021 5 2.84122 0.14167 -1.04946 16.3094 13.1759 11.349 51 OB1960 39773 West Poi MS 090554 2 2.65154 0.15696 -1.55293 13.3494 13.1759 11.349 52 OB2077 14551 Sodus NH 041012 . 2.49610 0.19822 . 11.3542 11.1350 11.354 54 OB1961 39454 Napoleon OH 170012 . 2.49610 0.19822 . 11.3542 11.1350 11.354 59 OB1312 11944 Greenpor NP 177021 5 2.84122 0.14167 -1.04946 16.3094 16.1386 11.309 50 OB2008 39773 West Poi MS 090554 2 2.65154 0.15696 -1.55293 13.3494 13.1759 11.349 51 OB1162 03894 Welfebor NH 041012 . 2.49610 0.19822 . 11.3542 11.1350 11.354 59 OB1312 10945 Sodus NH 046003 . 2.50034 0.18902 . 11.4789 11.2891 11.486 54 OB1649 28461 Sodilpor NC 140036 . 2.50036 0.18657 . 11.6233 11.4809 11.673 59 OB1162 03894 Welfebor NH 041012 . 2.50064 0.18654 . 11.4799 11.5796 11.389 51 OB1162 03894 Welfebor NH 041012 . 2.50064 0.18659 . 11.6733 11.4809 11.693 51 OB182 36360 Ozark AL 076963 . 2.50725 0.18639 . 11.4799 11.5796 11.3892 11.600 51 OB182 36360 Ozark AL 076963 . 2.50736 0.18041 . 11.719 11.7190 11.5796	73	OB2124	44875	Shelby	OH	201041	4	2000	0.14659	-1.11278	14.3783	14.2140	10.378
76	74	OB2163	63141	Creve Co	MO	101063	3*	2.40995	0.21275		10.3882	10.1334	10.388
77 OB1278 10522 Dobbs Fe NY 146021 . 2.44494 0.20288 . 10.7895 10.5296 10.770  78 OB231 14424 Canandai NY 118021 24 3.53022 0.30774 0.31134 34.7865 33.1314 10.786  79 OB1947 37879 Tazewell TN 122252 . 2.44836 0.20192 . 10.8076 10.5993 10.808  80 OB1190 05080 Randolph VT 020013 . 2.45286 0.20077 . 10.8648 10.6180 10.855  81 OB1564 24219 Big Ston VA 005534 . 2.45286 0.20077 . 10.8548 10.6217 10.858  82 OB1830 33476 Pahokee FL 073039 . 2.45266 0.20011 . 10.8611 10.6217 10.858  83 OB1451 18657 Turikhann PA 140523 . 2.45904 0.19900 . 10.9274 10.6936 10.927  84 OB1159 03766 Lebanon NH 022012 . 2.46520 0.19733 . 10.9972 10.7658 10.997  85 OB1569 24277 Penningt VA 068034 . 2.46522 0.19733 . 10.9974 10.7660 10.997  86 OB1632 2779 Ahoskie NC 000336 . 2.47451 0.19485 . 11.1035 10.8759 11.103  87 OB1960 38242 Paris TN 109562 . 2.48899 0.19105 . 11.2731 11.0512 11.273  88 OB1367 14551 Sodus NY 462021 . 2.4899 0.19100 . 11.2731 11.0512 11.273  89 OB1312 11944 Greenpor NY 177021 5 2.84122 0.14167 -1.04946 16.3094 16.1366 11.309  50 OB2008 99773 West Poi MS 090554 2 2.65154 0.15996 -1.55293 13.3494 13.1759 11.349  51 OB1162 03884 Wblfebor NH 041012 . 2.49610 0.18922 . 11.3542 11.1350 11.379  53 OB1713 30130 Currrring GA 046336 . 2.50725 0.18639 . 11.4862 11.2711 11.486  54 OB1649 28461 Southpor NC 140036 . 2.51053 0.18557 . 11.5253 11.3115 11.525  55 OB1151 03235 Franklin NH 013012 . 2.51630 0.18657 . 11.5253 11.3115 11.525  56 OB1652 28542 Carrp Lej NC 025056 . 2.52244 0.18470 . 11.5937 11.0584 11.673  59 OB1652 38542 Carrp Lej NC 025056 . 2.52244 0.18600 . 11.5937 11.5997 11.586 11.693  50 OB1652 38580 Carrk AL 076853 . 2.5160 0.18041 . 11.7799 11.573 11.699 11.910  10 OB1892 38380 Carrk AL 076853 . 2.52694 0.1870 . 11.9914 11.7909 11.9914 11.7909  100 OB1892 38380 Carrk AL 076853 . 2.55734 0.17609 . 11.9914 11.7909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11.9914 11.909 11	75	OB1186	04915	Belfast	ME	012011	190	2.41248	0.21202	- 20	10.4154	10.1617	10.415
78         OB231         14424         Canandai         NV         118021         24         3.53022         0.30774         -0.31134         34.7865         33.1314         10.786           75         OB1947         37879         Tazewell         TN         122252         2.44836         0.20192         10.8076         10.5693         10.808           80         OB1190         05080         Randolph         VT         020013         2.45266         0.20077         10.8566         10.6180         10.858           81         OB1564         24219         Big Ston         VA         005534         2.45266         0.20077         10.8561         10.6217         10.858           82         OB1561         14624         0.73039         2.45496         0.20011         10.8615         10.6860         10.897           84         OB1159         03766         Lebanon         NH         022012         2.46520         0.199733         10.9972         10.7656         10.997           85         OB1699         24277         Perningt         VA         088034         2.46522         0.19733         10.9974         10.7660         10.997           86         OB1622         29710	76	OB1734	30533	Dahloneg	GA	046438		2.43154			10.6218	***************************************	
75 OB1947 37879 Tazewiell TN 122252 . 2.44836 0.20192 . 10.8076 10.5693 10.808 80 OB1190 05080 Ramdolph VT 020013 . 2.45256 0.20077 . 10.8546 10.6180 10.855 81 OB1564 24219 Big Ston VA 05534 . 2.45267 0.20068 . 10.8581 10.6217 10.858 82 OB1830 33476 Pahokee FL 073039 . 2.45496 0.20011 . 10.8815 10.6460 10.881 83 OB1451 18657 Tunikhann PA 140523 . 2.45904 0.19900 . 10.9274 10.8936 10.927 84 OB1159 03766 Lebanon NH 022012 . 2.4520 0.19733 . 10.9972 10.7656 10.997 85 OB1569 24277 Penningt VA 068034 . 2.46522 0.19733 . 10.9974 10.7660 10.997 86 OB1632 27910 Ahoskie NC 000336 . 2.47451 0.19485 . 11.1035 10.8759 11.103 87 OB1960 38242 Panis TN 108552 . 2.48899 0.19105 . 11.2710 11.0491 11.271 88 OB1367 14551 Sodus NY 462021 . 2.48916 0.19100 . 11.2731 11.0512 11.273 89 OB1312 11944 Greenpor NY 177021 5 2.84122 0.14167 -1.04948 16.3094 16.1366 11.309 90 OB2008 39773 West Poi MS 090554 2 2.65154 0.15596 -1.55293 13.3494 13.1759 11.349 91 OB1162 03894 Wolfebor NH 041012 . 2.49610 0.18952 . 11.3542 11.3350 11.354 92 OB2077 43545 Napoleon OH 178041 . 2.50684 0.18654 . 11.4789 11.2636 11.479 93 OB1649 28461 Southpor NC 140036 . 2.51053 0.18657 . 11.5253 11.3115 11.525 95 OB1152 03264 Plymouth NH 013012 . 2.51072 0.18477 . 11.5635 11.3115 11.525 95 OB1152 03264 Plymouth NH 035012 . 2.51072 0.18477 . 11.5635 11.3159 11.549 96 OB1663 28542 Camp Lej NC 025036 . 2.52284 0.18596 . 11.673 11.693 11.693 97 OB2165 64067 Lexingto MO 059563 . 2.52284 0.18170 . 11.7146 11.5064 11.715 100 OB1692 38360 Ozark AL 076963 . 2.51060 0.18041 . 11.7799 11.5736 11.693 91 OB1162 03864 Plymouth NH 035012 . 2.58264 0.18170 . 11.7146 11.5064 11.715 100 OB1692 38360 Ozark AL 076963 . 2.52284 0.18170 . 11.7146 11.5064 11.715 100 OB1692 38360 Ozark AL 076963 . 2.52284 0.18170 . 11.7146 11.5064 11.71991 11.7199 11.5736 11.710 101 OB1342 13662 Massensa NY 238021 . 2.58652 0.17461 . 12.0689 11.8999 12.209 103 OB1995 03661 Morrisor VT 014013 . 2.56652 0.17461 . 12.0689 11.9909 12.209 104 OB1695 34711 Ciermont FL 009339 . 2.56794 0.17154 . 12.2639 12.0702	1000	120000000000000000000000000000000000000			2.51	146021	34		72777555	÷		10.5298	- 2222
80         CB1190         05080         Randblph         VT         02013         . 2.45256         0.20077         . 10.854         10.6180         10.855           81         CB1564         24219         Big Ston         VA         005634         . 2.45267         0.20068         . 10.8581         10.6217         10.858           82         CB1830         33476         Pahokee         FL         073039         . 2.45496         0.20011         10.8815         10.6460         10.881           83         CB1569         24371         Remind         Pahokee         FL         073039         . 2.45904         0.19900         . 10.9274         10.6936         10.927           84         CB1569         24277         Permingt         VA         068034         2.46520         0.19733         10.9974         10.7660         10.997           85         CB1690         28242         Paris         TN         109552         2.48899         0.19105         11.2710         11.0491         11.271           86         CB1690         38242         Paris         TN         109552         2.48916         0.19100         11.2731         11.0512         11.271           87         CB1960	78	OB231	14424	Canandai	MY.	118021	24	3.53022	0.30774	-0.31134	34.7865	33.1314	10.786
81 OB1564 24219 Big Ston VA 005534 . 2.45287 0.20088 . 10.8581 10.6217 10.858 82 OB1830 33476 Pshokee FL 073039 . 2.45496 0.20011 . 10.8815 10.6460 10.881 83 OB1451 18657 Tunikhann PA 140523 . 2.45904 0.19900 . 10.9274 10.6936 10.927 84 OB159 03766 Lebanon NH 022012 . 2.46520 0.19733 . 10.9972 10.7658 10.997 85 OB1569 24277 Permingl VA 088034 . 2.46522 0.19733 . 10.9974 10.7660 10.997 86 OB1632 27910 Ahoskie NC 000336 . 2.47451 0.19485 . 11.1035 10.8759 11.103 87 OB1960 38242 Paris TN 109552 . 2.48899 0.19105 . 11.2710 11.0491 11.271 88 OB1367 14551 Sodus NY 462021 . 2.48916 0.19100 . 11.2710 11.0512 11.273 89 OB1312 11944 Greenpor NY 177021 5 2.84122 0.14167 -1.04948 16.3094 18.1366 11.309 91 OB2008 39773 West Poi MS 090554 2 2.65154 0.15596 -1.55293 13.3494 13.1759 11.349 91 OB1162 03894 Wibifebor NH 041012 . 2.49610 0.18922 . 11.3542 11.1350 11.354 92 OB2077 43545 Napoleon OH 178041 . 2.50684 0.18654 . 11.4789 11.2636 11.479 93 OB1649 28461 Southpor NC 140036 . 2.51053 0.18657 . 11.5253 11.3115 11.525 95 OB1515 03235 Franklin NH 013012 . 2.51372 0.18477 . 11.5635 11.3508 11.563 96 OB1620 16686 Tyrone PA 326723 . 2.51674 0.1892 . 11.5997 11.3892 11.600 97 OB2185 64067 Lexingto MO 059563 . 2.52284 0.18593 . 11.673 11.6338 11.673 98 OB152 03284 Pymouth NH 035012 . 2.52324 0.18314 . 11.673 11.6338 11.673 98 OB1652 3850 Carark AL 076963 . 2.52284 0.18563 . 11.673 11.673 11.6343 11.633 99 OB1652 03284 Pymouth NH 035012 . 2.52824 0.1870 . 11.779 11.779 11.779 11.779 91 OB1852 08681 Micrisvi VT 014013 . 2.55652 0.17461 . 12.089 11.9914 11.799 11.9914 10.000 10.00	79	OB1947		Tazewell		122252	740	2.44836	0.20192	- 20	10.8076	10.5693	
82         CB1830         33476         Pshokee         FL         073039         . 2.45496         0.20011         . 10.8815         10.6460         10.881           83         CB1451         18657         Tunkhann         PA         140623         . 2.46590         0.19900         . 10.9274         10.6936         10.927           84         CB1159         03766         Lebanon         NH         022012         . 2.46520         0.19733         . 10.9972         10.7658         10.997           85         CB1569         24277         Perningt         VA         068034         . 2.46522         0.19733         . 10.9974         10.7660         10.997           86         CB1632         27910         Aboxide         NC         000336         . 2.47451         0.19455         . 11.1035         10.8759         11.103           87         CB1632         27910         Aboxide         NC         000336         . 2.47451         0.19455         . 11.1035         10.8759         11.103           87         CB1632         27910         Aboxide         NC         000336         . 2.47451         0.19465         . 11.271         11.031         11.271         11.031         11.271         11.031	80	OB1190	05080	Randolph	VT	020013		2.45256	0.20077		10.8546	10.6180	10.855
83         OB1451         18657         Tunkhann         PA         140523         2.45904         0.19900         . 10.9274         10.6936         10.927           84         OB1159         03766         Lebanon         NH         022012         2.46520         0.19733         . 10.9972         10.7658         10.997           85         OB1569         24277         Perningt         VA         068034         2.46522         0.19733         10.9974         10.7660         10.997           86         OB1632         27910         Ahoskie         NC         000336         2.47451         0.19485         11.1035         10.8759         11.103           87         OB1960         38242         Paris         TN         109552         2.48899         0.19105         11.2710         11.0491         11.271           88         OB1367         14551         Sodus         NY         462021         2.48916         0.19100         11.2731         11.0512         11.273           89         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04946         16.3094         16.1366         11.309           91         OB	81	OB1564	24219	Big Ston	VA	005534	38	2.45287	0.20068	+3	10.8581	10.6217	10.858
84         OB1159         03766         Lebanon         NH         022012         . 2.46520         0.19733         . 10.9972         10.7658         10.997           85         OB1569         24277         Perningt         VA         068034         . 2.46522         0.19733         . 10.9974         10.7660         10.997           86         OB1632         27910         Ahoskie         NC         000336         . 2.47451         0.19485         . 11.1035         10.8759         11.103           87         OB1960         38242         Paris         TN         109552         . 2.48999         0.19105         . 11.2710         11.0491         11.271           88         OB1367         14551         Sodus         NY         462021         . 2.48916         0.19100         . 11.2731         11.0512         11.273           85         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04948         16.3094         16.1366         11.309           90         OB2008         39773         West Poi         MS         090554         2         2.65164         0.15866         -1.55293         13.3494         13.1759         11.3	82	OB1830	33476	Pahokee	FL	073039	3*	2.45496	0.20011		10.8815	10.6460	10.881
85         OB 1689         24277         Penningt         VA         088034	83	OB1451	18657	Tunkhann	PA.	140523	190	2.45904	0.19900	- 20	10.9274	10.6936	10.927
86         OB1632         27910         Ahoskie         NC         000336         . 2.47451         0.19485         . 11.1035         10.8759         11.103           87         OB1960         38242         Paris         TN         109562         . 2.48899         0.19105         . 11.2710         11.0491         11.271           88         OB1367         14551         Sodus         NY         462021         . 2.48916         0.19100         . 11.2731         11.0512         11.273           89         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04946         16.3094         16.1366         11.309           90         OB2008         39773         West Poi         MS         090554         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           91         OB1182         03894         Wolfebor         NH         041012         2.49610         0.18922         . 11.3542         11.1350         11.354           92         OB2077         43545         Napoleon         OH         178041         2.50664         0.18922         . 11.4789         11.2636         11.479<	-	-	-		0.77	-	199			- 8			
87         OB1960         38242         Paris         TN         109552         . 2.48899         0.19105         . 11.2710         11.0491         11.271           88         OB1367         14551         Sodus         NY         462021         . 2.48916         0.19100         . 11.2731         11.0512         11.273           89         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04948         16.3094         16.1366         11.309           50         OB2008         39773         West Poi         MS         090554         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           51         OB1620         3973         West Poi         MS         090554         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           51         OB1620         3984         Welfebor         NH         041012         2.49610         0.18922         . 11.3542         11.3542         11.349           52         OB2077         43545         Napoleon         OH         178041         2.250864         0.18932         . 11.4789			12000	Penningt	- 12	068034	38	-000	100000000000000000000000000000000000000	+3	10.9974		2000
88         OB1367         14551         Sodus         NY         462021         . 2.48916         0.19100         . 11.2731         11.0512         11.273           85         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04948         16.3094         16.1368         11.309           90         OB2008         39773         West Poi         MS         090564         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           91         OB162         0.3894         Wolfebor         NH         041012         . 2.49610         0.18922         . 11.3542         11.1350         11.354           92         OB2077         43545         Napoleon         OH         178041         . 2.50864         0.18852         . 11.4789         11.2636         11.479           93         OB1713         30130         Cumrning         GA         046338         . 2.50725         0.18639         . 11.4862         11.2711         11.486           94         OB1649         28461         Southpor         NC         140036         . 2.51053         0.18557         . 11.563         11.358         1	86	-	-	Ahaskie	-		19.				11.1035	10.8759	10000
85         OB1312         11944         Greenpor         NY         177021         5         2.84122         0.14167         -1.04948         16.3094         16.1368         11.309           90         OB2008         39773         West Poi         MS         090554         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           91         OB1162         03894         Wolfebor         NH         041012         2.49610         0.18922         11.3542         11.1350         11.354           92         OB2077         43545         Napoleon         OH         178041         2.50864         0.18654         11.4789         11.2636         11.479           93         OB1713         30130         Cumrning         GA         046338         2.50725         0.18639         11.4862         11.2711         11.486           94         OB1649         28461         Southpor         NC         140036         2.51053         0.18557         11.5253         11.315         11.525           95         OB1649         28461         Southpor         NC         140036         2.51372         0.18477         11.5635         11.3150         11.525     <	87	OB1960		Paris			740	2.48899	0.19105	- 20	11.2710	11.0491	
90         OB2008         39773         West Poi         MS         090554         2         2.65154         0.15598         -1.55293         13.3494         13.1759         11.349           91         OB1162         03894         Wolfebor         NH         041012         .2.49610         0.18922         .11.3542         11.1350         11.354           92         OB2077         43545         Napoleon         OH         178041         .2.50884         0.18654         .11.4789         11.2638         11.479           93         OB1713         30130         Cumrning         GA         046338         .2.50725         0.18639         .11.4862         11.2711         11.486           94         OB1649         28461         Southpor         NC         140036         .2.51053         0.18557         .11.5253         11.3115         11.525           95         OB1151         03235         Franklin         NH         013012         .2.51674         0.18477         .11.5835         11.3682         11.580         11.580           96         OB1420         16688         Tyrone         PA         328723         .2.51674         0.18402         .11.5997         11.3882         11.800      <				Sodus	NY	462021	- 1				-	11.0512	-
91         OB1162         03894         Wolfebor         NH         041012         . 2.49610         0.18922         . 11.3542         . 11.350         . 13.54           92         OB2077         43545         Napoleon         OH         178041         . 2.50684         0.18654         . 11.4789         11.2836         . 11.479           93         OB1713         30130         Cumrning         GA         046338         . 2.50725         0.18639         . 11.4862         . 11.2711         . 11.486           94         OB1649         28461         Southpor         NC         . 140036         . 2.51053         0.18557         . 11.5253         . 11.315         . 11.525           95         OB1151         03235         Franklin         NH         013012         . 2.51372         0.18477         . 11.5835         . 11.3508         . 11.583           96         OB1420         16888         Tyrone         PA         . 328723         . 2.51674         0.18402         . 11.5997         . 11.3882         . 11.800           97         OB2165         64067         Lexingto         MO         059563         . 2.52244         0.18402         . 11.6431         . 11.4328         . 11.803           97	-						227		100000			16.1366	S 5 / 2 / 3 ·
92         OB2077         43545         Napoleon         OH         178041         . 2.50684         0.18654         . 11.4789         11.2636         11.479           93         OB1713         30130         Cumrning         GA         046338         . 2.50725         0.18639         . 11.4862         11.2711         11.486           94         OB1649         28461         Southpor         NC         140036         . 2.51053         0.18557         . 11.5253         11.3115         11.525           95         OB1151         03235         Franklin         NH         013012         . 2.51372         0.18477         . 11.5835         11.3506         11.583           96         OB1420         16888         Tyrone         PA         326723         . 2.51674         0.18402         . 11.5997         11.3882         11.600           97         OB2185         64067         Lexingto         MO         059563         . 2.52034         0.18314         . 11.6431         11.4328         11.843           98         OB1653         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6733         11.4639         11.673           9         OB1652			-				2			-1.55293			
93         OB1713         30130         Cumrning         GA         046338         . 2.50725         0.18639         . 11.4862         11.2711         11.486           94         OB1649         28481         Southpor         NC         140036         . 2.51053         0.18557         . 11.5253         11.3115         11.525           95         OB1151         03235         Franklin         NH         013012         . 2.51372         0.18477         . 11.5635         11.3508         11.583           96         OB1420         16688         Tyrone         PA         326723         . 2.51674         0.18402         . 11.5997         11.3882         11.600           97         OB2185         64067         Lexingto         MO         059563         . 2.52034         0.18314         . 11.6431         11.4328         11.843           98         OB1653         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6431         11.4328         11.673           99         OB1652         03264         Plymouth         NH         035012         . 2.52824         0.18170         . 11.7146         11.5084         11.715           100         OB1892				Wolfebor		041012	740	2.49610		- 20	11.3542	11.1350	
94         OB1649         28481         Southpor         NC         140036         . 2.51053         0.18557         . 11.5253         11.3115         11.525           95         OB1151         03235         Franklin         NH         013012         . 2.51372         0.18477         . 11.5635         11.3508         11.563           96         OB1420         16688         Tyrone         PA         326723         . 2.51674         0.18402         . 11.5997         11.3882         11.600           97         OB2185         64067         Lexingto         MO         059563         . 2.52034         0.18314         . 11.6431         11.4328         11.643           98         OB1683         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6431         11.4328         11.673           95         OB1652         03264         Plymouth         NH         035012         . 2.52284         0.18170         . 11.7146         11.5064         11.715           100         OB1892         38360         Ozark         AL         078963         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342	-	-	-	Napoleon		178041	199		-	- 8		11.2636	
95         OB1151         O3235         Franklin         NH         013012         . 2.51372         0.18477         . 11.5835         11.3508         11.563           96         OB1420         16686         Tyrone         PA         . 326723         . 2.51674         0.18402         . 11.5997         . 11.3882         . 11.600           97         OB2185         64067         Lexingto         MO         . 059563         . 2.52034         0.18314         . 11.6431         . 11.4328         . 11.643           98         OB1683         28542         Camp Lej         NC         . 025036         . 2.52284         0.18253         . 11.6733         . 11.4639         . 11.6439           99         OB1152         . 03264         Plymouth         NH         . 035012         . 2.52824         . 0.18253         . 11.7146         . 11.5064         . 11.715           100         OB1892         . 3830         Ozark         AL         . 076963         . 2.53160         0.18041         . 11.7799         . 11.5736         . 11.780           101         OB1342         . 13662         Masserna         NY         . 238021         . 2.53396         0.17985         . 11.8088         . 11.809         . 11.991	1000	100000000000000000000000000000000000000	10000000	Cumming	1000000	27.2.2.2.2.2	38		100000000000000000000000000000000000000	+3			53555
96         OB1420         16886         Tyrone         PA         326723         . 2.51674         0.18402         . 11.5997         11.3882         11.600           97         OB2185         64087         Lexinglo         MO         059563         . 2.52034         0.18314         . 11.6431         11.4328         11.643           98         OB1653         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6733         11.4639         11.673           99         OB1152         03264         Plymouth         NH         035012         . 2.52824         0.18170         . 11.7146         11.5084         11.715           100         OB1892         38360         Ozark         AL         076963         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342         13662         Massena         NY         238021         . 2.53396         0.17985         . 11.8088         11.809         11.991           102         OB1890         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB196         <	94	OB1849	28461	Southpor	NC	140036	19.	2.51053	0.18557		11.5253	11.3115	1000000
97         OB2185         84087         Lexinglo         MO         059583         . 2.52034         0.18314         . 11.6431         11.4328         11.643           98         OB1653         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6733         11.4639         11.673           99         OB1152         03264         Plymouth         NH         035012         . 2.52824         0.18170         . 11.7146         11.5084         11.715           100         OB1892         38360         Ozark         AL         076963         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342         13662         Massena         NY         238021         . 2.53396         0.17985         . 11.8088         11.8034         11.809           102         OB1890         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7999         11.991           103         OB196         05681         Morrisori         VT         014013         . 2.55652         0.17461         . 12.0889         11.8999         12.089           104         OB1852		OB1151	03235	Franklin		013012	740	2.51372		- 20	11.5635		
98         OB1653         28542         Camp Lej         NC         025036         . 2.52284         0.18253         . 11.6733         11.4639         11.673           99         OB1152         03264         Plymouth         NH         035012         . 2.52624         0.18170         . 11.7146         11.5064         11.715           100         OB1892         38360         Ozark         AL         076953         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342         13662         Messena         NY         238021         . 2.53396         0.17985         . 11.8088         11.8034         11.809           102         OB1890         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB1196         05681         Morrisori         VT         014013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Ciermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295	-	-	-	-	-	-	199	-	-	- 8	11.5997	11.3882	-
99         OB1152         O3264         Plymouth         NH         O35012         . 2.52624         0.18170         . 11.7146         11.5064         11.715           100         OB1892         36360         Ozark         AL         076953         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342         13662         Messena         NY         238021         . 2.53396         0.17985         . 11.8088         11.8034         11.809           102         OB1890         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB1196         05681         Morrisvi         VT         014013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Ciermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264	100					-	38			+3			
100         OB1892         36380         Ozark         AL         076953         . 2.53160         0.18041         . 11.7799         11.5736         11.780           101         OB1342         13662         Massena         NY         238021         . 2.53396         0.17985         . 11.8088         11.6034         11.809           102         OB1890         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB1196         05681         Morrisvi         VT         014013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Ciermont         FL         009339         . 2.56794         0.17206         . 12.2834         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264	98	OB1653	28542	Camp Lej	NC	025036	3*	2.52284	0.18253		11.6733	11.4639	11.673
101         OB1342         13662         Masserus         NY         238021         . 2.53396         0.17985         . 11.8088         11.6034         11.809           102         OB1690         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB1196         05681         Morrisvi         VT         014013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Clermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264			_			-	740			- 2			11.715
102         OB1690         29520         Cheraw         SC         049537         . 2.54873         0.17639         . 11.9914         11.7909         11.991           103         OB1196         05661         Morrisvi         VT         014013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Ciermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264	-	-	-		-	-	199						-
103         OB1196         O5661         Morrisvi         VT         O14013         . 2.55652         0.17461         . 12.0889         11.8909         12.089           104         OB1852         34711         Ciermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264	-			- A2-YA-	2.01		3#	150000000000000000000000000000000000000		÷			
104         OB1852         34711         Clermont         FL         009339         . 2.56794         0.17206         . 12.2334         12.0389         12.233           105         OB1295         11229         Brooklyn         NY         074021         . 2.57034         0.17154         . 12.2639         12.0702         12.264	-	-			-		25			- 1			100000
105 OB1295 11229 Brooklyn NY 074021 . 2.57034 0.17154 . 12.2639 12.0702 12.264			_			-	740			- 2			
	-	-	-		-	-	199					-	-
106 OB1896 36467 Opp AL 076553 . 2.58097 0.16925 . 12.4005 12.2099 12.400	-		-	100000000000000000000000000000000000000	2.51	-	3#.			+			
	106	OB1896	38467	Орр	AL	076553	13%	2.58097	0.16925	+	12.4005	12.2099	12.400

107	OB1180	04654	Machias	ME	038611		2.58132	0.16918		12.4051	12.2146	12.405
108	OB1568	24273	Norton	WA	067534		2.58644	0.16810	- 8	12.4715	12.2825	12.471
109	OB1627	27804	Rocky Ma	NC	129036	3	2.79214	0.14193	-1.40585	15.4811	15,3159	12.481
110	OB1806	33050	Marathon	FL	050839	-	2.58765	0.16785		12.4872	12.2985	12.487
111	OB1198	05855	Newport	VT	015013		2.59117	0.16712		12.5331	12.3454	12.533
112	OB2172	63640	Farmingt	MO	400063		2.60733	0.16389	- 8	12.7462	12.5628	12.746
113	OB1701	29681	Simpsonv	SC	059537	- 4	2.61088	0.16320	- 3	12.7936	12.6111	12.794
114	OB1174	04462	Milinoc	ME	038711		2.61227	0.16294		12.8121	12.6299	12.812
115	OB1808	33070	Tavernie	FL	030639		2.61341	0.16272	- 1	12.8274	12.6455	12.827
116	OB1104	01331	Athol	MA	006514		2.62861	0.15990	- 8	13.0328	12.8545	13.033
117	OB1666	28722	Calumbus	NC	149036	- 4	2.63489	0.15879	- 3	13.1186	12.9417	13.119
118	OB1185	04901	Watervil	ME	058211	-	2.63858	0.15815		13.1695	12.9934	13.169
119	OB1346	13815	Norwich	NY	371021		2.65303	0.15573		13.3702	13.1970	13.370
120	OB1395	15767	Purosuta	PA	281023		2.65395	0.15559	- 3	13.3831	13.2100	13.383
121	OB2058	43040	Marysvil	OH	188541	-	2.65414	0.15556		13.3858	13.2128	13.386
122	OB1338	13421	Oneida	NY	382021	-	2.70120	0.14892		14.0838	13.8976	14.064
123	OB1980	39120	Natchez	MS	061054		2.71538	0.14731		14.2751	14.1103	14.275
124	OB1390	15425	Connells	PA	050023		2.73177	0.14567		14.5239	14.3800	14.524
125	OB1460	19064	Springfi	PA	938523	4	2.97661	0.15356	-1.38717	18.8539	18.6212	14.854
126	OB1155	03561	Littleto	NH	023012	2	2.88720	0.14370	-1.78859	17.1293	16.9431	15.129
127	OB1902	36732	Demopoli	AL	034553	-	2.80688	0.14159		15.7250	15.5582	15.725
128	OB1927	37388	Tullahom	TN	122452		2.85707	0.14212		16.5872	16.4105	16.587
129	OB1209	06460	Milford	CT	035016	-	2.86363	0.14239		16.7035	16.5250	16.704
130	OB1516	21620	Chestert	MD	042032	-	2.86433	0.14242		16.7160	16.5373	16.716
131	OB1940	37743	Greenevi	TN	034052	527)	2.87872	0.14316		16.9748	16.7915	16.975
132	OB2222	65613	Bolivar	MO	002963	- 1	2 93254	0.14778	-2.23939	17.9813	17.7752	16.981
133	OB1101	01230	Great Ba	MA	101014	-	2.89811	0.14450		17.3302	17.1398	17.330
134	OB1608	27030	Mount Ai	NC	103536	-	2.91376	0.14585		17.6229	17.4259	17.623
135	OB2081	43624	Toledo	OH	924041		2.91384	0.14586		17.6244	17.4273	17.624
136	OB2105	44146	Bedford	OH	017041		2.91668	0.14613		17.6781	17.4796	17.678
137	OB1454	18848	Towanda	PA	984823	-	2.94493	0.14923		18.2222	18.0093	18.222
138	OB1399	15853	Ridgway	PA	290023		2.98802	0.15532		19.0873	18.8464	19.087
139	OB1313	12010	Amsterda	NY	016021	527)	2.99992	0.15727		19.3338	19.0839	19.334
140	OB880	44691	Wooster	OH	237041	10	3.40438	0.26557	-1.00648	30.1758	29.0956	20.176
141	OB1855	34769	St Cloud	FL	089539	-	3.04797	0.16821		20.3656	20.0725	20.386
142	OB2149	45750	Marietta	OH	916541		3.08289	0.17366		21.1530	20.8215	21.153
143	OB177	11226	Brooklyn	NY	055021	1	3.14887	0.18956	-2.45572	22.7323	22.3097	21.732
144	OB884	44870	Sandusky	OH	200041	5	3.30287	0.23336	-1.51111	26.9411	26.1906	21.941
145	OB2153	45891	Van Wert	OH	224041	-	3.13087	0.18501		22.2892	21.8939	22.289
146	OB1446	18431	Honesdal	PA	099023	-	3.19438	0.20168		23.8964	23.3952	23.896
147	OB1351	14020	Batavia	NY	023021	(17)	3.20627	0.20497	10	24.2108	23.6868	24.211
148	OB2111	44505	Youngsto	OH	928541		3.22846	0.21125	- 5	24.8104	24.2409	24.810
149	OB1419	16873	Roaring	PA	292023	90	3.23765			25.0631	24.4737	25.063
150	OB1939	37743	Greenevi	TN	032062	100	3.24334	0.21555		25.2213	24.6192	25.221
151	OB2103	44130	Parma	OH	180141	(17)	3.25333	0.21847	12	25.5012	24.8763	25.501
152	OB1111	01752	Mariboro	MA	130014		3.32270	0.23949	- 5	27.5419	26.7350	27.542
153	OB1408	16214	Clarion	PA	905523		3.32633	0.24062	- 1	27.6535	26.8359	27.654
154	OB1035	19446	Lansdale	PA	115023		3.44518	0.27901		31.5931	30.3488	31.593
155	OB1070	43302	Marion	OH	164041		3.55857	0.31750	100	35.9281	34.1129	35.928
156	OB1029	02174	Arlingto	MA	005014	-	3.57738	0.32401	- 1	36.7082	34.7798	36.708
157	OB846	44024	Chardon	OH	033541	12	3.91522	0.44492	-1.35027	54.3786	49.1600	42.379
158	OB1008	43506	Bryan	OH	023041	-	3.78581	0.39790	- SAME	46.7022	43.0715	46.702
		- annual		-		(37)	and seems			100,000,00		145.129