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Staff Paper

1997 Business Analysis Summary For General Crop Farms

Sherrill B. Nott nott@pilot.msu.edu

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1997 BUSINESS ANALYSIS SUMMARY FOR GENERAL CROP FARMS

1997 Michigan Telfarm/MicroTel Data Staff Paper No. 98-18

by

Sherrill B. Nott 14 pages

Introduction

The body of this report is organized as follows:

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Data Source

Farm types were assigned using the 1992 Census of Agriculture's Standard Industrial Classification (SIC) definitions. Basically, any farm with 50 percent or more of value of farm sales from one item becomes a farm of that type. General crops farms are those farms that don't qualify for any specific category, such as cash grain or fruit. However, more of the cash farm sales are from crops than from livestock products.

This report is a summary of the financial and production records kept by general crop farmers enrolled in the Telfarm/MicroTel record program through Michigan State University Extension. Farm records were included if a Finan¹ summary was completed on 1997 data including beginning and ending balance sheets, income and expenses plus crop acres and yields. The summary was included if cash discrepancy was less than 10% of gross cash inflow, and if the debt discrepancy was less than \$1,000. The averages are reported in the tables below; it should be recognized that considerable variability exists in the data. In statistical terms, the expected standard deviations would be large.

This report has three purposes: 1)to provide statistical information about the financial results on general crop farms during 1997; 2)to provide production costs for comparative analysis and forward planning; and 3)to provide information on the trends in resource use, income and costs during the last few years. Following long term trends may be a problem, as Telfarm/MicroTel and the Department of

¹ Finan=financial analysis, one of the parts of Finpack, a financial software package from the Center of Farm Financial Management at the University of Minnesota.

Agricultural Economics in 1995 adopted Finansum² and a different software package for doing annual analysis. For general crop farm averages for 1995, see Staff Paper No. 96-86, <u>Michigan Farm Database</u>, New Directions for 1995; it contains averages of 11 general crop farms calculated with Finansum. Staff Paper No. 97-32, <u>Business Analysis Summary for General Crops Farms</u>, contains averages of 7 general crop farms for 1996. These staff papers are available from the author.

Finansum allows rapid analysis of group averages with some degree of choice over how the results are presented. I chose to show the average of the high or low 25 percent by net income, but only if the 25 percent meant 6 or more farms. In order to get at least 6 farms, I increased the percentage to 45 for the general crop farms. A farm was accepted in the average regardless of whether it was a proprietorship, partnership, limited liability company, or corporation. Finansum will produce a variety of report options; included is a subset in this publication.

The farms included in the averages below are not a random sample. Most of them kept their financial records with Michigan State University's Telfarm/MicroTel accounting project. The averages may be representative of bigger and better managed general crop farms.

This document may be downloaded from the following: www.msu.edu/user/nott

² Finansum provides summerization calculations for data files generated by Finan. It also comes from the Center for Farm Financial Management.

Table 1.

CROP PRODUCTION AND MARKETING SUMMARY, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	_	Average Of Low 45%	_
Number of Farms	14	6	6
ACREAGE SUMMARY			
Total Acres Owned	453	316	617
Total Crop Acres	888	718	1129
Crop Acres Owned	390	251	509
Crop Acres Cash Rented	323	467	214
Crop Acres Share Rented	174	-	406
AVERAGE PRICE RECEIVED (Cash Sales Only)			
Corn per bu.	2.66	_	_
Soybeans per bu.	6.83	_	_
Wheat, Winter per bu.	3.55	-	-
AVERAGE YIELD PER ACRE			
Soybeans (bu.)	37.02	_	_
Corn (bu.)	124.81	_	-
Corn, Seed (bu.)	191.86	_	-
Hay, Alfalfa (ton)	3.65	_	_
Sugar Beets (ton)	14.31	_	-
Beans, Green (cwt.)	69.77	_	-
Cucumbers, Pickling (cwt.)	187.39	-	_
Wheat, Winter (bu.)	62.26	-	-

Table 2.

FARM INCOME STATEMENT, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 45%	Average Of High 45%
Number of Farms	14	6	6
CASH FARM INCOME			
Asparagus	4357	_	5490
Adzuiki Beans	2545	_	5939
Green Beans	12015	5541	7107
Light Red Kidney Beans	86	_	202
Navy Beans	3109	_	7254
Corn	30799	20474	44692
Seed Corn	64355	74325	75787
Cucumbers	15757	8009	28757
Alfalfa Hay	862	1768	49
Mixed Hay	6971	10755	4855
Mixed Haylage	760	_	1773
Oats	226	511	_
Potatoes	11086	25868	_
Soybeans	43877	34066	55755
Speltz	165	386	_
Straw	1416	2280	1023
Sugar Beets	10553	_	24623
Winter Wheat	6919	7639	6967
Beef Calves	1510	3356	_
Finish Beef Calves	564	716	_
Finish Yrlg Steers	7240	16894	_
Milk	8782	_	20492
Dairy Steers	501	64	1106
Raised Hogs	30809	71887	_
Feeder Pigs	323	753	_
Fdr Lambs	19	44	_
Mkt Lambs	1105	2577	_
Wool	28	66	_
Finish Cull Cows	152	_	354
Cull breeding livestock	4704	1022	3852
Misc. livestock income	24	_	57
Deficiency payments	2643	369	5796
Other government payments	19355	24252	16696
Custom work income	13894	26472	5696
Patronage dividends, cash	324	17	233
Insurance income	1973	175	4429
Cash from hedging accts	878	1690	_
Other farm income	11790	24025	3396
Gross Cash Farm Income	322475	366003	332381

Table 3.

FARM INCOME STATEMENT, 1997 (Continued)

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 45%	Average Of High 45%
Number of Farms	14	6	6
CASH FARM EXPENSE			
Seed	16324	15012	19355
Fertilizer	32128	28522	39674
Crop chemicals	29565	27979	32288
Crop insurance	1741	834	3228
Drying fuel	1687	3844	93
Irrigation energy	886	2068	_
Crop marketing	397	740	187
Crop miscellaneous	697	731	118
Feeder livestock purchase	34	13	
Purchased feed	15589	33624	2372
Breeding fees	8	10	8
Veterinary	2214	4698	423
Livestock supplies	429	639	93
Livestock marketing	958	1058	1178
Interest	31652	44236	28540
Fuel & oil	11283	9346	14168
Repairs	29120	30214	32815
Custom hire	9967	11341	9413
Hired labor	24978	34202	22215
Land rent	30432	26224	31167
Machinery & bldg leases	5563	10824	1994
Real estate taxes	3572	3514	4820
Personal property taxes	3	6	
Farm insurance	8003	10601	7207
Utilities	6591	7149	6669
Dues & professional fees	3010	4905	1878
Hedging account deposits	429	1000	_
Miscellaneous	16869	30979	6852
Total cash expense	284129	344313	266755
Net cash farm income	38345	21690	65627
INVENTORY CHANGES			
Crops and feed	26266	34048	25194
Market livestock	-9802	-22189	-1053
Accounts receivable	-1141	983	-5399
Prepaid expenses and supplies	-2398	-11863	4617
Accounts payable	-598	-152	457
Total inventory change	12325	828	23815
Net operating profit	50671	22518	89442
DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS			
Breeding livestock	-3577	-5220	-2931
Machinery and equipment	-28116	-41676	-22299
Buildings and improvements	-3075	-4761	-2268
Other farm capital	-5288	-11070	-1268
Total depr. and other capital adj	-40055	-62726	-28766
Net farm income	10616	-40208	60676

Table 4.

INVENTORY CHANGES, 1997

Michigan General Crop Farms in 12 Southern Counties
Farms sorted by Net Farm Income)

	Average Of All Farms	_	_
Number of Farms	14	6	6
Net cash farm income	38345	21690	65627
CROPS AND FEED Ending inventory Beginning inventory Inventory change	129154 102889 26266	103245 69196 34048	185571 160377 25194
MARKET LIVESTOCK Ending inventory Beginning inventory Inventory change	7254 17057 -9802	15974 38163 -22189	233 1287 -1053
ACCTS RECEIVABLE & OTHER CURRENT ASSETS Ending inventory Beginning inventory Inventory change	13660 14802 -1141	13453 12470 983	12622 18021 -5399
PREPAID EXPENSES AND SUPPLIES Ending inventory Beginning inventory Inventory change	16205 18603 -2398	17143 29006 -11863	15635 11018 4617
ACCOUNTS PAYABLE Beginning inventory Ending inventory Inventory change	21318 21916 -598	26533 26685 -152	8931 8474 457
Total inventory change	12325	828	23815
Net operating profit	50671	22518	89442

Table 5.

DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS, 1997

Michigan General Crop Farms in 12 Southern Counties

(Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 45%	_
Number of Farms	14	6	6
Net operating profit	50671	22518	89442
BREEDING LIVESTOCK Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	17343 2368 19946 3342 -3577	11808 5525 19103 3450 -5220	23250 - 23167 3014 -2931
MACHINERY AND EQUIPMENT Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	94628 10505 99240 34009 -28116	106009 7664 120403 34945 -41676	103276 15837 99853 41559 -22299
BUILDINGS AND IMPROVEMENTS Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	34413 184 37140 533 -3075	53854 - 57522 1093 -4761	24897 430 27445 150 -2268
OTHER CAPITAL ASSETS Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	12672 2089 19824 225 -5288	20845 4205 36053 67 -11070	8723 668 10202 457 -1268
Total depreciation, capital adj.	-40055	-62726	-28766
Net farm income	10616	-40208	60676

Table 6

PROFITABILITY AND LIQUIDITY ANALYSIS, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Avg. Of All Farms	Avg. Of Low 45 % F	_	_	Avg. Of Low 45 %	Avg. Of High 45 %
Number of Farms	14	6	6	14	6	6
PROFITABILITY		Cost		M	arket	
Net farm income	10616	-40208	60676	40195	7828	78720
Labor and management earnings	-1509	-47393	41506	4598	-24171	31256
Rate of return on assets	2.1 %	-4.9 %	8.2 %	4.2 %	2.0 %	6.4 %
Rate of return on equity	-11.8 %	-93.4 %	8.4 %	1.3 %	-4.8 %	5.7 %
Operating profit margin	3.8 %	-8.2 %	16.9 %	13.1 %	6.0 %	22.1 %
Asset turnover rate	55.2 %	60.3 %	48.5 %	32.1 %	32.9 %	29.2 %
Interest on farm net worth	12125	7185	19170	35596	31999	47465
Farm interest expense	33990	45978	31505	33990	45978	31505
Value of operator lbr and mgmt.	32396	33502	33884	32396	33502	33884
Return on farm assets	12210	-27733	58297	41789	20304	76341
Average farm assets	577602	563818	712599	992777	1033340	1184179
Return on farm equity	-21780	-73710	26792	7799	-25674	44836
Average farm equity	184583	78924	319498	593273	533314	791078
Value of farm production	318597	339989	345820	318597	339989	345820
		Average (of Average Of	Average 0	f	
		All Farm				
Number of Farms		1	.4	5	6	
LIQUIDITY (Cash)						
Net cash farm income		3834	15 21690	6562	7	
Net nonfarm income		823	11968	3 724	4	
Family living and taxes		3810	16 51894	3459	6	
Real estate principal payments		946	12687	7 817	4	
Cash available for interm. debt		-99	2 -30923	3010	1	
Average intermediate debt		11833	172770	9659	7	
Years to turnover interm. debt			* * *:	٥.		
Expense as a % of income		88				
Interest as a % of income		10	% 12 [§]	9	8	
LIQUIDITY (Accrual)						
Total accrual farm income		33779				
Total accrual farm expense		28712				
Net accrual operating income		5067				
Net nonfarm income		823				
Family living and taxes		3810				
Real estate principal payments		946				
Available for intermediate debt Average intermediate debt		1133 11833				
Average intermediate debt						
Years to turnover interm. debt		10.				
Expense as a % of income		85				
Interest as a % of income		10	% 12 [§]	\$ 9	8	

 $[\]ensuremath{^{**}}$ Income insufficiant to meet debt servicing requirements

Table 7.

BALANCE SHEET AT COST VALUES, 1997

Michigan General Crop Farms in 12 Southern Counties

(Farms sorted by Net Farm Income)

	Avera All	ge Of Farms	Average Of Low 45 %		Average Of High 45 %	
Number of Farms		14		6		6
	Beginning	Ending	Beginning	Ending	Beginning	Ending
ASSETS						
Current Farm Assets						
Cash and checking balance	30740	26291	42765	29780	23709	17289
Prepaid expenses & supplies	18603	16205	29006	17143	11018	15635
Growing crops	5650	5374	8627	9027	2857	2238
Accounts receivable	8726	7910	3026	3901	14986	10031
Hedging accounts	16	16	-	-	38	38
Crops held for sale or feed	102889	126427	69196	103245	160377	179207
Crops under government loan	-	2727	-	-	-	6364
Market livestock held for sale	17057	7254	38163	15974	1287	233
Other current assets	410	360	817	525	140	316
Total current farm assets	184091	192566	191599	179594	214412	231350
Intermediate Farm Assets						
Breeding livestock	19946	17343	19103	11808	23167	23250
Machinery and equipment	99240	94628	120403	106009	99853	103276
Other intermediate assets	16054	8670	29325	13523	8134	6707
Total intermediate farm assets	135240	120640	168832	131340	131154	133233
Long-Term Farm Assets						
Farm land	218805	224538	165422	165422	322624	335999
Buildings and improvements	37140	34413	57522	53854	27445	24897
Other long-term assets	3770	4002	6728	7322	2068	2016
Total long-term farm assets	259715	262953	229672	226599	352136	362912
Total Farm Assets	579045	576159	590103	537532	697703	727495
Total Nonfarm Assets	49176	45429	84772	70643	29972	35357
Total Assets	628221	621587	674875	608175	727674	762853
LIABILITIES						
Current Farm Liabilities						
Accrued interest	7440	9777	14403	16145	2956	5921
Accounts payable	13878	12139	12129	10540	5975	2553
Current notes	67592	73024	58432	70116	99283	98858
Government crop loans	-	2121	-	-	-	4950
Principal due on term debt	38753	39372	54684	48407	34513	39154
Total current farm liabilities	128816	137426	139649	145208	145417	153749
Intermediate Farm Liabilities	90886	91709	134820	142417	74365	63433
Long-term Farm Liabilities	177791	159409	218297	189397	181302	167935
Total Farm Liabilities	397493	388545	492766	477022	401084	385118
Total Nonfarm Liabilities	0	0	-	-	1	1
Total Liabilities	397493	388545	492766	477022	401085	385119
Net Worth (farm and nonfarm) Net Worth Change	230728	233042 2314	182109	131153 -50956	326589	377734 51145
_						
RATIO ANALYSIS Current Farm Liabilities / Assets	70 %	71 %	73 %	81 %	68 %	66 %
,		71 % 73 %				60 %
Curr. & Interm Farm Liab / Assets	69 % 68 %	73 % 61 %	76 % 95 %	93 % 84 %	64 % 51 %	46 %
Long Term Farm Liab. / Assets Total Liabilities / Assets	63 %	63 %	95 % 73 %	84 % 78 %	51 %	46 % 50 %
TOTAL LIADITITIES / ASSETS	চুহ ই	03 8	13 8	/ ৪ %	55 g	50 €

Table 8.

BALANCE SHEET AT MARKET VALUES, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

Average Of Average Of Average Of

	Avera		Avera		Avera	
	All .	Farms	Low	45 %	High	45 %
Number of Farms		14		6		6
	Beginning	Ending	Beginning	Ending	Beginning	Ending
ASSETS						
Current Farm Assets						
Cash and checking balance	30740	26291	42765	29780	23709	17289
Prepaid expenses & supplies	18603	16205	29006	17143	11018	15635
Growing crops	5650	5374	8627	9027	2857	2238
Accounts receivable	8726	7910	3026	3901	14986	10031
Hedging accounts	16	16	-	-	38	38
Crops held for sale or feed	102889	126427	69196	103245	160377	179207
Crops under government loan	-	2727	-	-	-	6364
Market livestock held for sale	17057	7254	38163	15974	1287	233
Other current assets	410	360	817	525	140	316
Total current farm assets	184091	192566	191599	179594	214412	231350
Intermediate Farm Assets						
Breeding livestock	19946	17343	19103	11808	23167	23250
Machinery and equipment	246169	255143	226318	239410	322661	326007
Other intermediate assets	19125	11098	29825	14023	8134	6707
Total intermediate farm assets	285241	283584	275246	265241	353962	355964
Long-Term Farm Assets						
Farm land	463375	486340	472638	499390	581486	608319
Buildings and improvements	38827	40955	79764	82613	8333	10448
Other long-term assets	5172	5404	10000	10594	2068	2016
Total long-term farm assets	507374	532699	562402	592597	591887	620783
Total Farm Assets	976705	1008849	1029248	1037432	1160260	1208098
Total Nonfarm Assets	70737	67693	102782	90490	62271	67460
Total Assets	1047442	1076542	1132030	1127922	1222532	1275558
LIABILITIES						
Current Farm Liabilities						
Accrued interest	7440	9777	14403	16145	2956	5921
Accounts payable	13878	12139	12129	10540	5975	2553
Current notes	67592	73024	58432	70116	99283	98858
Government crop loans	_	2121	-	-	-	4950
Principal due on term debt	38753	39372	54684	48407	34513	39154
Total current farm liabilities	128816	137426	139649	145208	145417	153749
Intermediate Farm Liabilities	90886	91709	134820	142417	74365	63433
Long-term Farm Liabilities	177791	159409	218297	189397	181302	167935
Total Farm Liabilities	397493	388545	492766	477022	401084	385118
Total Nonfarm Liabilities	0	0	_	_	1	1
Total Deferred Liabilities	3760	9211	8773	21491	_	_
Total Liabilities	401253	397756	501539	498513	401085	385119
Net Worth (farm and nonfarm)	646190	678786	630491	629409	821447	890439
Net Worth Change	010170	32596	000191	-1082	021117	68992
RATIO ANALYSIS						
Current Farm Liabilities / Assets	70 %	71 %	73 %	81 %	68 %	66 %
Curr. & Interm Farm Liab. / Assets	47 %	48 %	59 %	65 %	39 %	37 %
Long Term Farm Liabilities / Assets	35 %	30 %	39 %	32 %	31 %	27 %
Total Liabilities / Assets	38 %	37 %	44 %	44 %	33 %	30 %
TOTAL DIADITION / INDUCTO	30 %	٥, ٥	11 0	11 0	<i>55</i> °	50 8

Table 9.

STATEMENT OF CASH FLOWS, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 45%	Average Of High 45%
Number of Farms	14	6	6
(a) Beginning cash balance (farm & nonfarm)	30740	42765	23709
CASH FROM OPERATING ACTIVITIES Gross cash farm income Net nonfarm income (+) Total cash farm expense (-) Apparent family living expense (-) Income and social security tax (-)	284129 30287	366003 11968 344313 46806 5088	332381 7244 266755 21440 13156
(b) Cash from operations (=)		-18235	38275
CASH FROM INVESTING ACTIVITIES Sale of breeding livestock Sale of machinery & equipment (+) Sale of farm land (+) Sale of farm buildings (+) Sale of other farm assets (+) Sale of nonfarm assets (+) Purchase of breeding livestock (-) Purchase of machinery & equip. (-) Purchase of farm land (-) Purchase of farm buildings (-) Purchase of other farm assets (-) Purchase of nonfarm assets (-) Co Cash from investing activities (=)	- 184 2089 7037 3342 34009 4286 533 225 890	5525 7664 - 4205 16420 3450 34945 - 1093 67 851 -6592	15837 - 430 668 - 3014 41559 10000 150 457 1225 -39471
CASH FROM FINANCING ACTIVITIES Money borrowed Cash gifts and inheritances (+) Principal payments (-) Dividends paid (-) Gifts given (-) (d) Cash from financing activities (=)	170126 - 3106	169934 28283 186063 - 312 11843	194007 17233 209528 - 6936 -5224
(e) Net change in cash balance (b+c+d) Ending cash balance (farm & nonfarm)	-4449 26291	-12985 29780	-6420 17289

Table 10.

FINANCIAL GUIDELINES MEASURES, 1997
Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Average For Average For All Farms Low 45 %		Average For High 45 %			
Number of Farms		14		6		6
LIQUIDITY Current ratio Working capital	Beginning 1.43 55275	Ending 1.40 55139	Beginning 1.37 51950	Ending 1.24 34386	Beginning 1.47 68995	Ending 1.50 77601
SOLVENCY (Market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	Beginning 41 % 59 % 70 %	Ending 39 % 61 % 64 %	Beginning 49 % 51 % 95 %	Ending 47 % 53 % 88 %	Beginning 35 % 65 % 53 %	Ending 32 % 68 % 47 %
PROFITABILITY Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	Cost 2.1 % -11.8 % 3.8 % 10616	Market 4.2 % 1.3 % 13.1 % 40195	Cost -4.9 % -93.4 % -8.2 % -40208	Market 2.0 % -4.8 % 6.0 % 7828	Cost 8.2 % 8.4 % 16.9 % 60676	Market 6.4 % 5.7 % 22.1 % 78720
REPAYMENT CAPACITY Term debt coverage ratio Capital replacement margin	Cash 44 % -30279	Accrual 67 % -17954	Cash 18 % -72919	Accrual 19 % -72092	Cash 111 % 3762	Accrual 178 % 27577
EFFICIENCY Asset turnover rate (market) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	74 11 10	.1 % .9 % .9 % .1 %	81 16 12	.9 % 9 % 6 % 1 %	65 8 9	.2 % .6 % .2 % .0 %
	LABOR A	ANALYSIS				
		ge For Farms	Averag Low 4	ge For 15 %		ge For 45 %
Number of Farms Total unpaid labor hours Total hired labor hours Total labor hours per farm Value of farm production / hour Net farm income / unpaid hour	: ! 5°	14 2968 2532 5501 7.92 3.58	! 58	6 2445 3408 5853 3.09 5.45	5	6 3721 2351 6072 6.95

Table 11.

OPERATOR INFORMATION & NONFARM SUMMARY, 1997

Michigan General Crop Farms in 12 Southern Counties (Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 45%	_		
Number of Farms	14	6	6		
OPERATOR INFORMATION Average number of operators Average age of operators Average number of years farming	1.3 49.6 27.5	1.0 49.8 26.8	1.3 50.2 28.0		
NONFARM INCOME Nonfarm wages & salary Nonfarm business income Nonfarm rental income Nonfarm interest income Nonfarm cash dividends Tax refunds Nontaxable nonfarm income Gifts and inheritances Other nonfarm income Total nonfarm income	1658 1671 4074 166 132 490 - 20935 43 29169	3838 3900 3648 276 307 - - 28283 - 40252	30 - 5859 112 - 1144 - 17233 100 24477		
	Average For All Farms				

	Average For	All Farms
	Beginning	Ending
NONFARM ASSETS (Mkt)		
Checking & savings	_	-
Stocks & bonds	_	_
Other current assets	400	347
Furniture & appliances	5893	5893
Nonfarm vehicles	1286	1214
Cash value of life ins.	17081	18054
Retirement accounts	22364	17233
Other intermediate assets	2382	3321
Nonfarm real estate	16521	16820
Other long term assets	4811	4811
Total nonfarm assets	70737	67693