

ANALYSIS OF THE
EFFECTS OF REDUCING
THE ASSESSMENT
PERCENTAGE ON
GENERAL BUSINESS
TANGIBLE PERSONAL
PROPERTY FROM 35%
TO 25% ON OHIO'S
SCHOOL DISTRICTS:
1984 TO 1993

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Analysis of the Effects of Reducing the Assessment Percentage on General Business Tangible Personal Property from 35% to 25% on Ohio's School Districts: 1984 to 1993

By

Dr. Howard B. Fleeter,
The Ohio State University
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Introduction

Ohio Legislators are currently considering a variety of property tax reforms intended to improve the tax climate for Ohio's business community. The most commonly discussed proposals involve changes in the taxation of general business (non-public utility) tangible personal property. Business tangible personal property (TPP) includes manufacturing machinery and equipment, furniture and fixtures, and inventory. This property is currently assessed at a rate of 25% of true value and then subject to local property taxation. The local tax rates are not subject to rollbacks due to inflationary increases in value as are the tax rates of Class 1 and Class 2 real property in Ohio. Taxation of tangible personal property is believed to place Ohio businesses at a competitive disadvantage relative to businesses located in other states, many of which do not tax such property. The business community has been particularly critical of the inventory component, arguing that the tax is decidedly inequitable because taxes are highest when the economy is slow (and inventories are high) and lowest when the economy is healthy (and inventories are low). In this sense, Ohio's inventory tax functions in direct opposition to the "ability-to-pay" principle of taxation that suggests that taxes should be paid proportionate to a taxpayer's income, wealth, or profits.

Options for reform include reducing the assessment percentage from 25% to 15% over either a 5 or 10 year period (through either 2% or 1% annual reductions, respectively), reducing the assessment percentage to 15% on the inventory component alone, or entirely eliminating taxation on the inventory of general business. Now is not the first time that Ohio has addressed issues related to the taxation of business tangible property, however. In 1931, the assessment percentage was 70% on business TPP. Beginning in the late 1960s, a series of reforms were undertaken to reduce the assessment percentage over

a period of years. In 1973 tangible property used in agriculture was exempted from taxation, and by the early 1980s the assessment percentage on TPP had been reduced to 35%, the same rate as for real property. Finally, beginning in 1984, the assessment percentage was reduced 1% a year until reaching the current level of 25% in 1993. (More detailed descriptions of these changes can be found in the 1998 Brief Summary of Ohio's State and Local Taxes, published by the Ohio Department of Taxation, which can be accessed on the Internet at www.state.oh.us/tax/brief98/brief98.htm). As recently as 1995, the Tax Study Commission recommended immediate repeal of the inventory tax and gradual phasing out of the remainder of the tangible personal property tax on business.

The intention of reducing the assessment rate on business tangible personal property is to diminish the burden on Ohio's businesses of paying this tax, however, this reduction also reduces the property tax revenues received by all of Ohio's local government entities, including school districts. The claim is often made that by gradually reducing the assessment percentage over a period of years it is unnecessary for the state to compensate local governments for their foregone revenues because inflationary growth in the value of tangible personal property is sufficient to offset the decrease in assessment percentage. While this can indeed occur in theory (because millage rates applied to tangible personal property are not subject to House Bill 920 rollbacks), in practice, each time the assessment percentage is reduced, more growth in the value of TPP property is required to maintain revenue neutrality. This is the case because as the assessment percentage decreases a given percentage point reduction from (i.e. from 16% to 15%) represents a larger loss in taxable value than a prior reduction (i.e. from 26% to 25%). This point is addressed in more detail in the paper, "Revenue Impact from the Repeal of the Personal Property tax on Inventory by School District - FY2000", by Levin and Driscoll. In addition, there is no guarantee that every local government unit will enjoy the inflationary increase in value necessary to avoid losing revenue as a consequence of the assessment percentage reductions. Furthermore, once the assessment rate is reduced to zero this logic no longer applies. In either of these cases, local governments will have to rely on property tax increases to recoup lost revenues, while school districts may benefit from increases in state aid as a result of decreases in their valuation.

Analysis of the 1984-1993 Assessment Percentage Decrease

The purpose of this paper is to analyze the effect on the revenues of Ohio school districts resulting from the most recent policy change in Ohio's tax treatment of business tangible property: the 1984-1993 reduction in assessment percentage from 35% to 25%. While recent legislative discussions seem to indicate that the most likely policy change in 1999 may well be a ten year reduction in assessment rate (at 1% per year) to 15% on inventory alone, it is

believed that historical analysis of the 1984-1993 experience will yield insights which can inform the policy debate underway currently. The advantage of examining the prior policy change as opposed to forecasting the effects of a new policy into the future is that assumptions do not have to be made about changes in property values or tax rates over time. In this manner it is possible separate the effects of assessment percentage changes, TPP value changes, tax rate changes, and state aid changes with as few assumptions as possible.

Table 1 shows the overall effects of the 10% reduction in assessment rate on business tangible property. Total tangible personal property tax revenue to all school districts in Ohio increased in each year during the 1983-1993 period, however tangible personal property valuation increased in only 7 of the ten years. Clearly a prime reason for the revenue increases was an overall increase in voted millage which also occurred over the ten year time frame. In fact, the table makes apparent that the 47.31% increase in district total business tangible property revenues was driven more by a 23.45% increase in the average tax rate than by the relatively modest 12.58% increase in valuation. However, the overall increase in TPP value does lend some credence to the argument that TPP valuation increases might be sufficient to offset the effects of annual decreases in the assessment percentage on business tangible property.

Table 2 explores the above premise more thoroughly by examining the effects of TPP assessment percentage decreases on individual school districts in each tax year from 1984-1993. Column 3 of Table 2 depicts the number of districts receiving less tangible personal property tax revenue in any given year than they received in tax year 1983 (the last year of the 35% assessment rate). The total revenue lost in these districts is presented in column 4, with the average per pupil revenue loss is presented in column 5. Year to year local revenue calculations in columns 3-5 include changes in revenues induced by the annual 1% decrease in the assessment rate, changes in the value of business tangible property caused by inflation or base growth or decline, and any changes in the voted millage of a given school district. Columns 6-8 provide similar data for each year, with the important difference that millage rates are controlled to remain constant at tax year 1983 levels.

Two main findings emerge from the analysis presented in Table 2. The first is that in 1994, after 10 years of 1% reductions in the TPP assessment rate, 95 districts (15.6%) have TPP revenues that are lower than those in tax year 1983. Importantly, this is true after allowing for any increases in voted millage in these districts and without making any adjustments to the annual revenue levels to account for inflation. While these findings suggest that natural increases in the TPP tax base will be not always be sufficient to offset the TPP assessment percentage reductions it would be inappropriate to interpret the findings in table 2 as definitive evidence of this. The reason for this is that it is not possible to easily ascertain how many of the 95 districts suffered decreases in revenue because of large decreases in their TPP tax bases due to events such as a plant closing

within their boundaries. Initial analysis shows that 25 of the 95 districts suffered a loss in TPP value of greater than 30% in a single year over the 1983-1993 time period. To the extent that this is the case, the numbers in Table 2 will overstate the effects of the assessment reductions alone.

The second primary finding from Table 2 is far less ambiguous, however. By comparing the findings in columns 3-5 and columns 6-8 it is again evident that school district millage increases play an important role in ameliorating the decreases in revenue brought about by reductions in the TPP assessment rate. By 1995, 176 districts would have lost a combined \$78.4 million dollars in local TPP revenue with no millage increases, however, millage increases in 81 districts proved sufficient to leave only 95 districts with combined losses of \$16.5 million. Over the full ten year time frame, actual local revenue losses of \$220.9 million contrast sharply with projected losses of \$486.7 million had no local millage increases occurred. In essence, local tax increases served to reduce actual revenue losses in Ohio school districts by more than 50%. While it is again important to note that these figures may overstate the losses attributable only to the assessment reductions (by not accounting for plant closures and the like), the fact that local taxpayers are bearing at least some of the brunt of this state policy change seems inescapable.

The results presented in Table 3 are also illuminating. This table shows the effects of simulating a 10% reduction in TPP assessment percentage accomplished over a five year period (with 2% annual reductions) rather than over a ten year period. As would be expected, the impact on local revenues is much more severe when the policy is enacted over a shorter time horizon. Cumulative revenue losses after ten years are \$347 million allowing for tax rate increases and \$748 million when holding tax effort constant at FY 1983 rates. This represents roughly a 50% increase in local revenue loss when compared with the results found in Table 2 based on the longer (10 year) phase-in of the assessment percentage decrease.

Effects on Basic Aid

The results discussed above focus on the impact of TPP assessment percentage decreases and voted millage rate changes on local revenues. In the case of school districts in Ohio, however, the possibility of an increase in state aid as a result of a decrease in any given district's decrease in total property value can also have important fiscal effects. As reported in Table 2, 95 districts lost TPP revenue in 1993 relative to 1983, exclusive of any additional state aid that was received. Table 4 presents results of analysis comparing the amount of state aid each district in the state actually received in the 1995 school year (which is when 1993 tax revenues are actually spent) with the amount they would have received had there not been a 10 percent reduction in the assessment percentage on

business tangible property. In total, the state spent \$52,028,621 more dollars on basic aid to school districts in FY 1995 than they would have if the TPP assessment rate remained at 35%. The reason for this is that every district has a lower total property value at 25% than at 35%. As a result, 349 of the 611 districts receive more state aid in FY95 than they would have at the 35% TPP assessment rate (the bulk of the 262 districts not receiving more aid were either on the guarantee or too wealthy to receive any basic aid at all). Another way to think of this is that the foundation level could have been increased from its actual FY95 level of \$3035 to \$3107 if there had been no decrease in the TPP assessment percentage.

By including increased basic aid received as a result of the TPP assessment percentage decrease, the 95 districts with less TPP revenues in 1995 relative to FY85 (TY93) is reduced to only 62 districts, who suffer a combined net loss of \$11.7 million dollars in contrast with the \$16.5 million loss reported in Table 2. Importantly, the 62 districts still suffering losses had local property tax losses of \$14.0 million which were only partially offset by an additional \$2.3 million received in basic aid. In contrast, 33 of the 95 districts received a total of \$6.6 million in additional aid, leaving them with an aggregate net gain of \$4.1 million. The 62 districts which experience net losses in TPP revenue even after additional basic aid are listed in Table 5. With regard to the analysis which held tax rates constant at TY83 levels, 135 districts would have lost \$53.9 million dollars as opposed to the \$78.4 million loss reported to 176 districts in Table 2. In either case, it is clear that automatic increases in state aid will not fully offset local revenue losses for many districts.

Summary

The following five points constitute the principal findings of this analysis:

- (1) Millage increases are more important for maintaining local revenue than growth in valuation has been;
- (2) Even after ten years, many districts did not regain their 1983 TPP local revenue level (unadjusted for inflation);
- (3) A faster timetable (i.e. 5 years rather than ten years) for decreasing the TPP assessment percentage will be significantly more costly to local governments;
- (4) The state aid formula did not fully compensate all districts that lost local TPP revenue, and;
- (5) Because a reduction in the TPP assessment percentage from 25% to 15% represents a greater decrease in taxable property value (40% decrease) than from 35% to 25% (28.6% decrease), each of the above 4 findings may be reasonably expected to worsen if the assessment percentage is further reduced.

Table 1
Assessed Value of Tangible Personal Property (TPP) and TPP Tax Revenues: 1983 to 1993

Tax Year	Fiscal (School) Year	Tangible Property Value	Total TPP Tax Revenue to School Districts	Annual Percent Change in Value	Annual Percent Change in Revenue	Average School District Tax Rate (in mills)
1983	1985	\$16,810,693,465	\$580,597,257	----	-----	34.76
1984	1986	\$16,393,421,994	\$586,556,864	-2.48%	1.03%	35.30
1985	1987	\$16,846,951,472	\$609,186,840	2.77%	3.86%	35.62
1986	1988	\$17,607,134,174	\$653,153,331	4.51%	7.22%	36.11
1987	1989	\$17,819,569,806	\$681,612,706	1.21%	4.36%	37.14
1988	1990	\$17,936,781,135	\$711,498,638	0.66%	4.38%	38.12
1989	1991	\$18,770,021,606	\$768,130,078	4.65%	7.96%	39.41
1990	1992	\$19,517,127,215	\$812,153,809	3.98%	5.73%	40.20
1991	1993	\$19,644,820,012	\$831,074,400	0.65%	2.33%	40.99
1992	1994	\$19,441,327,153	\$854,800,171	-1.04%	2.85%	41.81
1993	1995	\$18,925,166,211	\$855,262,741	-2.65%	0.05%	42.91
			Cumulative % Change: 1983-93	12.58%	47.31%	23.45%

Table 2

Impact of Annual One Percent Decreases In TPP Assessment for 10 Years on Ohio School Districts: 1984 to 1993

Tax Year	Assessment Percentage	Number of Districts Losing TPP Tax Revenue Relative to 1983	Total TPP Revenue Lost (<i>in millions</i>)	Average TPP Revenue Loss (<i>per pupil</i>)	Number of Districts Losing Tax Revenue (<i>constant tax effort</i>)	Total TPP Revenue Lost (<i>in millions; constant tax effort</i>)	Average TPP Revenue Loss (<i>per pupil</i>)
1984	34%	339	\$30.1mill.	\$36.0	361	\$34.1 mill.	\$35.2
1985	33%	264	\$30.4	\$47.9	284	\$34.9	\$46.9
1986	32%	193	\$26.6	\$57.0	228	\$35.0	\$60.1
1987	31%	169	\$24.2	\$63.8	218	\$37.6	\$68.3
1988	30%	153	\$24.6	\$64.3	203	\$43.8	\$79.0
1989	29%	119	\$18.7	\$69.0	172	\$51.7	\$105.3
1990	28%	95	\$17.3	\$80.2	153	\$48.7	\$110.8
1991	27%	87	\$16.6	\$81.2	159	\$57.2	\$111.7
1992	26%	86	\$15.9	\$84.0	169	\$65.3	\$118.9
1993	25%	95	\$16.5	\$79.7	176	\$78.4	\$132.4
Totals			\$220.9 million			\$486.7 million	

Table 3
**Impact of Annual Two Percent Decreases in TPP Assessment for 5
 Years on Ohio School Districts: 1984 to 1993**

Tax Year	Assessment Percentage	Number of Districts Losing Tax Revenue	Total TPP Revenue Lost (<i>in millions</i>)	Average TPP Revenue Loss (<i>per pupil</i>)	Number of Districts Losing Tax Revenue (constant tax effort)	Total TPP Revenue Lost (<i>in millions; constant tax effort</i>)	Average TPP Revenue Loss (<i>per pupil</i>)
1984	33%	396	\$39.4 mill.	\$38.0	418	\$45.8 mill.	\$37.6
1985	31%	336	\$44.1	\$51.3	371	\$54.1	\$50.2
1986	29%	300	\$43.8	\$57.2	341	\$59.5	\$61.3
1987	27%	299	\$47.5	\$62.3	353	\$76.2	\$71.9
1988	25%	280	\$54.8	\$73.2	364	\$98.2	\$83.6
1989	25%	186	\$34.0	\$72.1	273	\$100.3	\$111.5
1990	25%	135	\$26.1	\$80.3	215	\$81.1	\$115.2
1991	25%	123	\$22.5	\$74.5	201	\$78.2	\$114.0
1992	26%	101	\$18.3	\$80.4	192	\$76.2	\$119.2
1993	25%	95	\$16.5	\$79.7	176	\$78.4	\$132.4
Totals			\$347.0 million			\$748 million	

Table 4

Impact of Additional State Aid Disbursed in FY1995 on Net Local TPP Revenue Loss

	Total Local TPP Revenue Lost (<i>in millions</i>)	Total Additional \$ of Basic Aid (<i>in millions</i>)	Net Revenue Loss Relative to FY 85 (TY83) (<i>in millions</i>)	Total Number of Districts in Category	Number of Districts Receiving Additional Basic Aid	Number of Districts <u>Not</u> Receiving Additional Basic Aid
All Districts in FY 1995	-----	+ \$52.0 mill.	-----	611	349	262
Districts Losing TPP Rev. Before Basic Aid	- \$16.5 mill	+ \$8.9 mill.	- \$7.6 mill.	95	70	25
Districts <u>Still</u> Losing TPP Rev. <u>After</u> Basic Aid	- \$14.0 mill.	+ \$2.3 mill.	- \$11.7 mill.	62	37	25
Districts w/o TPP Revenue Loss After Basic Aid	- \$2.5 mill.	+ \$6.6 mill.	+ \$4.1 mill.	33	33	0
Districts Losing TPP Rev. Before Basic Aid (Constant Tax Effort)	- \$78.4 mill.	+ \$27.5 mill.	- \$50.9 mill.	176	117	59
Districts <u>Still</u> Losing TPP Rev. <u>After</u> Basic Aid (Constant Tax Effort)	- \$76.1 mill.	+ \$22.2 mill.	- \$53.9 mill.	135	76	59
Districts w/o TPP Revenue Loss After Basic Aid (Constant Tax Effort)	- \$2.3 mill.	+ \$5.3 mill.	+ \$3.0 mill.	41	41	0

Table 5

Districts STILL Losing Local TTP Revenue AFTER Additional Basic Aid (FY95)

RANK	DISTRICT	LOST LOCAL TTP REVENUES RELATIVE TO TAX YEAR 1993	ADDITIONAL BASIC AID IN FY95	NET TPP REVENUE LOSS IN FY95	NET TPP REV. LOSS PER PUPIL IN FY95	MILLAGE INCREASE FY85- FY95
1	Norwood City SD	-1938895.57	0.00	-1938895.57	-549.885	12.60
2	Kettering City SD	-1702032.22	0.00	-1702032.22	-212.488	10.70
3	Lorain City SD	-1279778.88	0.00	-1279778.88	-116.672	17.35
4	Youngstown City SD	-1002584.47	0.00	-1002584.47	-76.562	14.50
5	Batavia Local SD	-953098.69	154583.37	-798515.32	-502.527	14.20
6	Harrison Hills City SD	-659871.27	34858.03	-625013.23	-252.939	6.75
7	Switzerland Local SD	-500240.95	0.00	-500240.95	-151.957	4.70
8	Campbell City SD	-418701.68	0.00	-418701.68	-284.058	-1.40
9	Green Local SD	-504495.51	148548.78	-355946.73	-449.428	5.16
10	Shadyside Local SD	-268720.81	9613.80	-259107.01	-288.538	5.10
11	Massillon City SD	-691733.92	465838.90	-225895.02	-44.643	-0.40
12	South Point Local SD	-214942.53	0.00	-214942.53	-97.968	0.00
13	Fairbanks Local SD	-258706.32	60899.76	-197806.56	-244.810	8.00
14	Bettsville Local SD	-190251.91	0.00	-190251.91	-602.063	1.10
15	Wolf Creek Local SD	-183758.71	48893.96	-134864.75	-198.039	8.30
16	Noble Local SD	-176080.67	46345.13	-129735.54	-100.415	10.32
17	Buckeye Local SD	-119063.68	0.00	-119063.68	-43.470	0.00
18	Indian Valley Local SD	-201069.54	85414.57	-115654.97	-65.601	4.04
19	Old Fort Local SD	-109120.98	0.00	-109120.98	-226.863	13.30
20	Southwest Local SD	-97713.82	0.00	-97713.82	-24.223	6.70
21	Wheelersburg Local SD	-133031.19	38908.09	-94123.10	-56.327	4.91
22	Union Local SD	-119169.73	29619.65	-89550.08	-53.082	0.10
23	Barnesville Ex Vill SD	-126331.94	36841.54	-89490.40	-62.581	9.10
24	Tiffin City SD	-412112.00	323203.57	-88908.44	-22.710	7.00
25	East Muskingum Local SD	-132404.34	47003.82	-85400.52	-36.341	1.70
26	New Miami Local SD	-76388.70	0.00	-76388.70	-78.589	0.00
27	Danville Local SD	-51841.99	0.00	-51841.99	-75.903	2.90
28	Jefferson Area Local SD	-131520.84	80631.81	-50889.03	-23.121	5.50
29	Wellington Ex Vill SD	-116758.49	67135.14	-49623.34	-31.810	-12.10
30	Northwestern Local SD	-81423.70	37293.79	-44129.91	-30.903	1.00
31	Edison Local SD	-44047.43	0.00	-44047.43	-14.931	0.00
32	North Baltimore Local SD	-43830.57	0.00	-43830.57	-50.671	4.00
33	North Union Local SD	-55540.32	18124.18	-37416.15	-25.505	0.30
34	Leetonia Ex Vill SD	-45240.52	9692.26	-35548.26	-40.488	15.30
35	Fairfield Union Local SD	-59231.00	26083.41	-33147.59	-17.529	-0.70
36	Lincolnview Local SD	-31706.20	0.00	-31706.20	-35.308	5.80
37	Maplewood Local SD	-37007.20	6265.36	-30741.84	-25.986	7.55
38	Madeira City SD	-31593.36	2018.11	-29575.24	-22.005	18.80
39	East Guernsey Local SD	-49251.37	20078.02	-29173.35	-24.190	12.25
40	Liberty Center Local SD	-25506.26	0.00	-25506.26	-24.525	5.70
41	Paulding Ex Vill SD	-24800.91	0.00	-24800.91	-11.660	-2.20
42	Granville Ex Vill SD	-102424.89	78560.72	-23864.17	-15.836	10.00
43	Scioto Valley Local SD	-43523.98	20942.21	-22581.77	-14.158	-2.50
44	Wellsville City SD	-22104.55	0.00	-22104.55	-18.208	4.30
45	Conneaut Area City SD	-120493.57	98660.38	-21833.19	-8.864	11.30
46	Southern Local SD	-31100.00	9331.09	-21768.91	-19.790	4.90

Table 5
 Districts STILL Losing Local TTP Revenue AFTER Additional
 Basic Aid (FY95) - *continued*

RANK	DISTRICT	LOST LOCAL TPP REVENUES RELATIVE TO TAX YEAR 1993	ADDITIONAL BASIC AID IN FY95	NET TPP REVENUE LOSS IN FY95	NET TPP REV. LOSS PER PUPIL IN FY95	MILLAGE INCREASE FY85- FY95
47	Coldwater Ex Vill SD	- 125336. 49	106662. 19	- 18674. 30	- 12. 103	5. 00
48	Wyoming City SD	- 25312. 53	6942. 85	- 18369. 68	- 10. 680	9. 94
49	Toronto City SD	- 17145. 01	0. 00	- 17145. 01	- 17. 406	0. 00
50	Crooksville Ex Vill SD	- 42999. 66	26315. 62	- 16684. 04	- 15. 6952	8. 10
51	Walnut Township Local SD	- 16447. 80	0. 00	- 16447. 80	- 23. 6659	- 0. 35
52	Elmwood Local SD	- 13283. 84	0. 00	- 13283. 84	- 11. 0239	6. 00
53	Delphos City SD	- 12880. 45	0. 00	- 12880. 45	- 12. 1628	10. 40
54	Bellaire City SD	- 42004. 69	32081. 62	- 9923. 07	- 5. 0066	0. 10
55	Greeneview Local SD	- 28280. 72	18560. 25	- 9720. 47	- 5. 7518	4. 20
56	Central Local SD	- 17649. 19	12570. 67	- 5078. 52	- 3. 9126	3. 27
57	Arcadia Local SD	- 3186. 01	0. 00	- 3186. 01	- 5. 3637	6. 30
58	Lisbon Ex Vill SD	- 42696. 38	39659. 84	- 3036. 54	- 2. 4627	0. 30
59	Symmes Valley Local SD	- 4983. 24	2176. 61	- 2806. 63	- 2. 6453	0. 00
60	Eastern Local SD	- 8241. 49	5512. 00	- 2729. 49	- 1. 7049	10. 33
61	Arlington Local SD	- 19941. 32	17459. 11	- 2482. 21	- 3. 4862	0. 00
62	Deer Park Comm. City SD	- 1119. 95	0. 00	- 1119. 95	- 0. 7057	13. 69
		=====	=====	=====		
		- 14040755. 95	2273330. 23	- 11767425. 73		

Trends from 1983-1993

Tables 6-13 provide a listing of the top 50 districts in Ohio according to each of four measures of tangible personal property for the years 1983 and 1993. Districts are ranked according to their total tangible personal property, TPP as a percentage of total district property wealth, TPP value per pupil, and total local revenue derived from business tangible property. Comparisons of these rankings for the tax years 1983 and 1993 will provide some insight into the stability of these rankings over time. In 1983, 93 districts were in the top 50 along at least one of the dimensions, with 97 districts in the top 50 according to at least one measure in 1993. 76 districts were in the top 50 in at least one measure in both of the years.

Looking at the individual categories, there was the most consistency from the beginning to the end of the time frame in the TPP revenue rankings, and the least in the percentage of total property value attributable to TPP. In the rankings of TPP revenues, 8 of the top 10 districts were the same in 1983 and 1993, as were 21 of the top 25. Only one of the 25 highest TPP revenue districts in 1983 was not in at least the top 50 in 1993. As would be expected, the pattern for total TPP value by district was much the same as was the pattern for TPP revenue. 7 of the top 10 districts in 1983 were also in the top 10 in 1993, and 17 of the top 25 were the same in each year.

Consistency between the per pupil and percentage measures in each of the two years was noticeably less than for the total TPP value and revenue measures. Looking at TPP value per pupil, 6 of the top 10 districts were the same in 1983 and 1993, with 2 of the top ten in 1983 not among the 25 highest TPP/pupil districts in 1993. Only 15 of the 25 highest TPP/pupil districts in 1983 were also in the top 25 ten years later, while 4 were not even among the top 50. Similarly, only 5 of the top 10 districts in terms of TPP value as a percent of total district property wealth were among the top 10 in 1993, and only 14 of the top 25 were common to both years.

While a more detailed treatment of this issue is certainly warranted, there does seem to be evidence to suggest that while many of the districts that are most dependent on business tangible property remain the same over time, there is also a significant amount of upward and downward change as well

Table 6: Top 50 Districts by Total Tangible Personal Property Valuation (TY 1983)

RANK	DISTRICT	1983 TPP		1983 TPP VALUE/PUPIL	1983 TPP REVENUE
		<u>TOTAL 1983 TPP VALUATION</u>	VALUE AS % TOTAL		
1	Cleveland City SD	1048781735	0. 28399	14102. 22	37441507. 94
2	Columbus City SD	709471846	0. 18223	10487. 85	24058190. 30
3	Cincinnati City SD	701580830	0. 23092	13615. 00	21440310. 16
4	Toledo City SD	413050372	0. 20986	9623. 28	16728540. 07
5	Dayton City SD	400190298	0. 29756	13451. 32	14799037. 22
6	Princeton City SD	357063085	0. 43572	56757. 76	10511937. 22
7	Akron City SD	292465938	0. 19858	8347. 35	9031348. 17
8	Kettering City SD	233096390	0. 29487	29807. 72	8764424. 26
9	Middletown City SD	218935218	0. 32447	22101. 27	6618411. 64
10	Cuyahoga Heights Local SD	213984187	0. 59737	289559. 12	3359551. 74
11	Berea City SD	212689546	0. 27217	23436. 86	7933320. 07
12	Canton City SD	200624240	0. 31829	14663. 37	6600537. 50
13	Euclid City SD	172244084	0. 27927	31074. 16	6583168. 89
14	Lorain City SD	171122661	0. 28943	13952. 11	6526618. 29
15	Washington Local SD	171072298	0. 28119	21280. 30	6894213. 61
16	Warren City SD	160788738	0. 35304	18558. 26	5322107. 23
17	Solon City SD	155809719	0. 37908	54251. 29	4658710. 60
18	Youngstown City SD	149012626	0. 22825	9473. 75	4768404. 03
19	Oregon City SD	128270079	0. 36570	31224. 46	3206751. 98
20	Shawnee Local SD	127521680	0. 47061	47778. 82	3124281. 16
21	South-Western City SD	126409625	0. 18213	7903. 07	3937659. 82
22	Lockland City SD	120720520	0. 76885	154769. 90	2619635. 28
23	Chillicothe City SD	117495185	0. 36273	25937. 13	3959587. 73
24	Norwood City SD	117045900	0. 45557	30143. 16	4432528. 23
25	Bedford City SD	116111964	0. 27737	27619. 40	4536494. 43
26	Canton Local SD	116044810	0. 46514	41414. 99	3759851. 84
27	Elyria City SD	114640572	0. 21246	11086. 02	4969668. 80
28	Worthington City SD	113210464	0. 20724	15501. 91	4924655. 18
29	Sycamore Community City SD	111825780	0. 23400	22365. 16	4623996. 00
30	St Bernard-Elmwood Place City	110483400	0. 64965	95573. 88	2790810. 68
31	Parma City SD	107636311	0. 09596	8377. 67	4890993. 97
32	Switzerland Of Ohio Local SD	107372954	0. 40750	25619. 89	3264137. 80
33	Batavia Local SD	100168484	0. 70571	85032. 67	3125256. 70
34	Springfield City SD	96854847	0. 22644	8045. 09	3341492. 22
35	Mentor Ex Vill SD	96223672	0. 15288	9621. 41	4474400. 75
36	Howland Local SD	89094904	0. 27171	23207. 84	2828763. 20
37	Mayfield City SD	82298332	0. 18189	24399. 15	3536359. 33
38	Willoughby-Eastlake City SD	80697981	0. 11502	8628. 03	3332826. 62
39	Hamilton City SD	78890392	0. 17971	7372. 93	2367500. 66
40	Wooster City SD	78887329	0. 28642	18631. 87	3171270. 63
41	Gahanna-Jefferson City SD	78087431	0. 28899	14922. 12	2561267. 74
42	Mansfield City SD	76992455	0. 22403	10363. 77	2987307. 25
43	Northridge Local SD	76292614	0. 47369	32814. 03	2588608. 39
44	Bath Local SD	76202247	0. 43919	32845. 80	1849428. 53
45	Sidney City SD	75482916	0. 32012	18688. 52	2287132. 35
46	Findlay City SD	74989547	0. 20716	11261. 38	2804609. 06
47	Troy City SD	74870960	0. 28978	16046. 07	2923710. 99
48	Marysville Ex Vill SD	74476084	0. 34834	27717. 19	2513567. 84
49	Lancaster City SD	72922319	0. 21008	10123. 88	3332549. 98
50	Fremont City SD	72236700	0. 24192	13215. 64	2073193. 29

Table 7: Top 50 Districts By TPP as a Percentage of Total Property Value (TY 1983)

RANK	DISTRICT	TOTAL 1983 TPP VALUATION	1983 TPP		
			<u>VALUE AS % TOTAL</u>	1983 TPP VALUE/PUPIL	1983 TPP REVENUE
1	Lockland City SD	120720520	0.76885	154769.90	2619635.28
2	Batavia Local SD	100168484	0.70571	85032.67	3125256.70
3	Green Local SD	53428420	0.67763	62053.91	1241142.20
4	St Bernard-Elmwood Place City	110483400	0.64965	95573.88	2790810.68
5	Cuyahoga Heights Local SD	213984187	0.59737	289559.12	3359551.74
6	Lordstown Local SD	69697130	0.49710	59519.33	1393942.60
7	Heath City SD	57442222	0.47877	42299.13	1717522.44
8	Northridge Local SD	76292614	0.47369	32814.03	2588608.39
9	Shawnee Local SD	127521680	0.47061	47778.82	3124281.16
10	Canton Local SD	116044810	0.46514	41414.99	3759851.84
11	Norwood City SD	117045900	0.45557	30143.16	4432528.23
12	Belpre City SD	46413437	0.44105	27659.97	1243880.11
13	Van Buren Local SD	36305624	0.43965	42462.72	726112.48
14	Bath Local SD	76202247	0.43919	32845.80	1849428.53
15	Princeton City SD	357063085	0.43572	56757.76	10511937.22
16	Bettsville Local SD	7598726	0.40870	22682.76	254557.32
17	Switzerland Of Ohio Local SD	107372954	0.40750	25619.89	3264137.80
18	Ayersville Local SD	31359071	0.40158	30066.22	708715.00
19	Solon City SD	155809719	0.37908	54251.29	4658710.60
20	Fostoria City SD	63996445	0.37055	21218.98	1926292.99
21	Colonel Crawford Local SD	33270750	0.36763	25652.08	1154495.03
22	Oregon City SD	128270079	0.36570	31224.46	3206751.98
23	Chillicothe City SD	117495185	0.36273	25937.13	3959587.73
24	Woodmore Local SD	31360174	0.36224	29418.55	1125830.25
25	Orrville City SD	40173032	0.35375	20527.87	1369900.39
26	Warren City SD	160788738	0.35304	18558.26	5322107.23
27	Marysville Ex Vill SD	74476084	0.34834	27717.19	2513567.84
28	Rossford Ex Vill SD	57760805	0.34169	28039.23	1496004.85
29	Warren Local SD	36934657	0.33439	13271.53	1126507.04
30	Weathersfield Local SD	18182214	0.32694	15434.82	630922.83
31	Perkins Local SD	63292925	0.32480	32608.41	2199429.14
32	Middletown City SD	218935218	0.32447	22101.27	6618411.64
33	Twinsburg City SD	58521055	0.32371	27080.54	2090372.08
34	Springfield Local SD	61853893	0.32113	16363.46	2123444.15
35	Sidney City SD	75482916	0.32012	18688.52	2287132.35
36	South Point Local SD	29168360	0.31948	11090.63	665038.61
37	Old Fort Local SD	9436483	0.31836	17940.08	267052.47
38	Canton City SD	200624240	0.31829	14663.37	6600537.50
39	Logan Elm Local SD	40144814	0.31609	16768.93	1176243.05
40	Mogadore Local SD	15032405	0.31489	16833.60	673902.72
41	Southwest Local SD	51429385	0.31080	15952.04	1608711.16
42	Minster Local SD	14520627	0.30759	17494.73	458851.81
43	Meigs Local SD	29955730	0.30710	11561.46	599114.60
44	New Bremen Local SD	12160116	0.30638	15937.24	384259.67
45	Buckeye Local SD	54512484	0.30408	20370.88	1865417.20
46	Bryan City SD	40804765	0.30384	17849.85	1362879.15
47	Shelby City SD	44522558	0.30078	16781.97	1651786.90
48	Dayton City SD	400190298	0.29756	13451.32	14799037.22
49	Noble Local SD	15483871	0.29727	13133.05	362012.90
50	Kettering City SD	233096390	0.29487	29807.72	8764424.26

Table 8: Top 50 Districts By Tangible Personal Property Valuation Per Pupil (TY 1983)

RANK	DISTRICT	TOTAL 1983 TPP VALUATION	1983 TPP		1983 TPP REVENUE
			VALUE AS % TOTAL	<u>1983 TPP</u> <u>VALUE/PUPIL</u>	
1	Cuyahoga Heights Local SD	213984187	0. 59737	289559. 12	3359551. 74
2	Lockland City SD	120720520	0. 76885	154769. 90	2619635. 28
3	St Bernard-Elmwood Place City	110483400	0. 64965	95573. 88	2790810. 68
4	Batavia Local SD	100168484	0. 70571	85032. 67	3125256. 70
5	Green Local SD	53428420	0. 67763	62053. 91	1241142. 20
6	Lordstown Local SD	69697130	0. 49710	59519. 33	1393942. 60
7	Princeton City SD	357063085	0. 43572	56757. 76	10511937. 22
8	Solon City SD	155809719	0. 37908	54251. 29	4658710. 60
9	Shawnee Local SD	127521680	0. 47061	47778. 82	3124281. 16
10	Van Buren Local SD	36305624	0. 43965	42462. 72	726112. 48
11	Heath City SD	57442222	0. 47877	42299. 13	1717522. 44
12	Independence Local SD	28170367	0. 16893	41982. 66	681722. 88
13	Canton Local SD	116044810	0. 46514	41414. 99	3759851. 84
14	Brooklyn City SD	47603214	0. 26884	39115. 21	1271005. 81
15	Bath Local SD	76202247	0. 43919	32845. 80	1849428. 53
16	Northridge Local SD	76292614	0. 47369	32814. 03	2588608. 39
17	Perkins Local SD	63292925	0. 32480	32608. 41	2199429. 14
18	Oregon City SD	128270079	0. 36570	31224. 46	3206751. 98
19	Euclid City SD	172244084	0. 27927	31074. 16	6583168. 89
20	Norwood City SD	117045900	0. 45557	30143. 16	4432528. 23
21	Ayersville Local SD	31359071	0. 40158	30066. 22	708715. 00
22	Kettering City SD	233096390	0. 29487	29807. 72	8764424. 26
23	Woodmore Local SD	31360174	0. 36224	29418. 55	1125830. 25
24	Rossford Ex Vill SD	57760805	0. 34169	28039. 23	1496004. 85
25	Marysville Ex Vill SD	74476084	0. 34834	27717. 19	2513567. 84
26	Belpre City SD	46413437	0. 44105	27659. 97	1243880. 11
27	Bedford City SD	116111964	0. 27737	27619. 40	4536494. 43
28	Twinsburg City SD	58521055	0. 32371	27080. 54	2090372. 08
29	Chillicothe City SD	117495185	0. 36273	25937. 13	3959587. 73
30	Wickliffe City SD	51360121	0. 26504	25900. 21	2049268. 83
31	Ontario Local SD	40820458	0. 28153	25803. 07	1351157. 16
32	Colonel Crawford Local SD	33270750	0. 36763	25652. 08	1154495. 03
33	Switzerland Of Ohio Local SD	107372954	0. 40750	25619. 89	3264137. 80
34	Fairbanks Local SD	22187595	0. 26375	25014. 20	572439. 95
35	Mayfield City SD	82298332	0. 18189	24399. 15	3536359. 33
36	Berea City SD	212689546	0. 27217	23436. 86	7933320. 07
37	Howland Local SD	89094904	0. 27171	23207. 84	2828763. 20
38	Bettsville Local SD	7598726	0. 40870	22682. 76	254557. 32
39	Archbold-Area Local SD	25979106	0. 27126	22492. 73	807950. 20
40	Sycamore Community City SD	111825780	0. 23400	22365. 16	4623996. 00
41	Beachwood City SD	26654321	0. 11616	22342. 26	1540619. 75
42	Orange City SD	42795712	0. 13302	22162. 46	1763183. 33
43	Middletown City SD	218935218	0. 32447	22101. 27	6618411. 64
44	Washington Local SD	171072298	0. 28119	21280. 30	6894213. 61
45	Fostoria City SD	63996445	0. 37055	21218. 98	1926292. 99
46	Orrville City SD	40173032	0. 35375	20527. 87	1369900. 39
47	Wolf Creek Local SD	14957348	0. 24740	20517. 62	379916. 64
48	Woodridge Local SD	20621779	0. 17409	20458. 11	782802. 73
49	Buckeye Local SD	54512484	0. 30408	20370. 88	1865417. 20
50	Three Rivers Local SD	38816480	0. 18552	19936. 56	1116361. 96

Table 9: Top 50 Districts By Total Tangible Personal Property Tax Revenue (TY 1983)

RANK	DISTRICT	TOTAL 1983 TPP VALUATION	1983 TPP		<u>1983 TPP REVENUE</u>
			VALUE AS % TOTAL	1983 TPP VALUE/PUPIL	
1	Cleveland City SD	1048781735	0. 28399	14102. 22	37441507. 94
2	Columbus City SD	709471846	0. 18223	10487. 85	24058190. 30
3	Cincinnati City SD	701580830	0. 23092	13615. 00	21440310. 16
4	Toledo City SD	413050372	0. 20986	9623. 28	16728540. 07
5	Dayton City SD	400190298	0. 29756	13451. 32	14799037. 22
6	Princeton City SD	357063085	0. 43572	56757. 76	10511937. 22
7	Akron City SD	292465938	0. 19858	8347. 35	9031348. 17
8	Kettering City SD	233096390	0. 29487	29807. 72	8764424. 26
9	Berea City SD	212689546	0. 27217	23436. 86	7933320. 07
10	Washington Local SD	171072298	0. 28119	21280. 30	6894213. 61
11	Middletown City SD	218935218	0. 32447	22101. 27	6618411. 64
12	Canton City SD	200624240	0. 31829	14663. 37	6600537. 50
13	Euclid City SD	172244084	0. 27927	31074. 16	6583168. 89
14	Lorain City SD	171122661	0. 28943	13952. 11	6526618. 29
15	Warren City SD	160788738	0. 35304	18558. 26	5322107. 23
16	Elyria City SD	114640572	0. 21246	11086. 02	4969668. 80
17	Worthington City SD	113210464	0. 20724	15501. 91	4924655. 18
18	Parma City SD	107636311	0. 09596	8377. 67	4890993. 97
19	Youngstown City SD	149012626	0. 22825	9473. 75	4768404. 03
20	Solon City SD	155809719	0. 37908	54251. 29	4658710. 60
21	Sycamore Community City SD	111825780	0. 23400	22365. 16	4623996. 00
22	Bedford City SD	116111964	0. 27737	27619. 40	4536494. 43
23	Mentor Ex Vill SD	96223672	0. 15288	9621. 41	4474400. 75
24	Norwood City SD	117045900	0. 45557	30143. 16	4432528. 23
25	Chillicothe City SD	117495185	0. 36273	25937. 13	3959587. 73
26	South-Western City SD	126409625	0. 18213	7903. 07	3937659. 82
27	Canton Local SD	116044810	0. 46514	41414. 99	3759851. 84
28	Mayfield City SD	82298332	0. 18189	24399. 15	3536359. 33
29	Cuyahoga Heights Local SD	213984187	0. 59737	289559. 12	3359551. 74
30	Springfield City SD	96854847	0. 22644	8045. 09	3341492. 22
31	Willoughby-Eastlake City SD	80697981	0. 11502	8628. 03	3332826. 62
32	Lancaster City SD	72922319	0. 21008	10123. 88	3332549. 98
33	Switzerland Of Ohio Local SD	107372954	0. 40750	25619. 89	3264137. 80
34	Oregon City SD	128270079	0. 36570	31224. 46	3206751. 98
35	Wooster City SD	78887329	0. 28642	18631. 87	3171270. 63
36	Batavia Local SD	100168484	0. 70571	85032. 67	3125256. 70
37	Shawnee Local SD	127521680	0. 47061	47778. 82	3124281. 16
38	Mansfield City SD	76992455	0. 22403	10363. 77	2987307. 25
39	Troy City SD	74870960	0. 28978	16046. 07	2923710. 99
40	Massillon City SD	72195790	0. 28797	14776. 05	2887831. 60
41	Howland Local SD	89094904	0. 27171	23207. 84	2828763. 20
42	Findlay City SD	74989547	0. 20716	11261. 38	2804609. 06
43	St Bernard-Elmwood Place City	110483400	0. 64965	95573. 88	2790810. 68
44	Lockland City SD	120720520	0. 76885	154769. 90	2619635. 28
45	Northridge Local SD	76292614	0. 47369	32814. 03	2588608. 39
46	Gahanna-Jefferson City SD	78087431	0. 28899	14922. 12	2561267. 74
47	Marysville Ex Vill SD	74476084	0. 34834	27717. 19	2513567. 84
48	West Carrollton City SD	65179902	0. 26625	14703. 34	2452719. 71
49	Hamilton City SD	78890392	0. 17971	7372. 93	2367500. 66
50	Painesville Local SD	53848272	0. 20461	13104. 96	2363939. 14

Table 10: Top 50 Districts By Total Tangible Personal Property Valuation (TY 1993)

RANK	DISTRICT	1993 TPP			
		<u>TOTAL 1993 TPP VALUATION</u>	VALUE AS % TOTAL	1993 TPP VALUE/PUPIL	1993 TPP REVENUE
1	Cleveland City SD	863197521	0.17552	12021.58	38584929.19
2	Columbus City SD	828970877	0.13374	13111.86	42111720.55
3	Cincinnati City SD	719889779	0.13794	14447.78	35044234.44
4	Princeton City SD	426672233	0.28690	62977.45	19174650.15
5	Toledo City SD	321443642	0.13942	8391.03	17775833.40
6	Akron City SD	321279899	0.15161	9808.88	13622267.72
7	Dayton City SD	314007133	0.18758	11279.40	19672546.88
8	South-Western City SD	238915763	0.17355	14167.21	9807492.07
9	Sycamore Community City SD	211300630	0.18050	33846.01	11725071.96
10	Berea City SD	211234868	0.19559	26711.54	10910280.93
11	Middletown City SD	196654808	0.22543	19792.15	6487642.12
12	Solon City SD	188195467	0.24694	46513.96	8017126.89
13	Gahanna-Jefferson City SD	182271563	0.24455	26496.81	8275128.96
14	Cuyahoga Heights Local SD	171090931	0.41003	230580.77	3421818.62
15	Canton City SD	158125079	0.25510	12174.71	7004941.00
16	Bedford City SD	155264794	0.24344	40224.04	7843977.39
17	Lockland City SD	151044260	0.72204	211250.71	4061580.15
18	Kettering City SD	146219297	0.13569	18254.59	7062392.05
19	Hilliard City SD	145333467	0.15329	15647.44	6439725.92
20	Worthington City SD	145176449	0.11172	13452.23	8681551.65
21	Troy City SD	141452030	0.30887	29383.47	6563374.19
22	St Bernard-Elmwood Place City	135072504	0.61121	104951.44	4226418.65
23	Bath Local SD	133266342	0.48642	61300.07	3704804.31
24	Washington Local SD	132330180	0.18049	18154.78	6722373.14
25	Elyria City SD	127856251	0.19758	13819.31	7246892.31
26	Marysville Ex Vill SD	118818759	0.33389	39136.61	3797447.54
27	Euclid City SD	117834523	0.16328	20914.90	7202046.05
28	Shawnee Local SD	116917149	0.36129	45635.11	3940107.92
29	Willoughby-Eastlake City SD	114538506	0.10202	12661.78	4952645.00
30	Chillicothe City SD	110579100	0.31909	28566.03	4456337.73
31	Twinsburg City SD	109930145	0.26650	40223.25	4463163.89
32	Parma City SD	109869396	0.06677	8064.99	5575871.85
33	Sidney City SD	107198983	0.28308	26050.79	3987802.17
34	Mentor Ex Vill SD	105574758	0.10390	9399.46	6355600.43
35	Oregon City SD	100890468	0.22712	26761.40	4065885.86
36	Perry Local SD	100050487	0.24309	20098.53	4472256.77
37	Findlay City SD	99063795	0.18570	16309.48	4700577.07
38	Warren City SD	98152968	0.24396	13679.86	5059785.50
39	Lorain City SD	94554684	0.18544	8620.17	5246839.42
40	Lakota Local SD	92920863	0.08423	7496.64	4234403.73
41	Miamisburg City SD	92411830	0.16518	21229.46	3421085.95
42	Canton Local SD	91014057	0.35403	36289.50	3576852.44
43	Westerville City SD	90567266	0.07783	7347.66	4935916.00
44	Hamilton City SD	89508259	0.14304	8396.65	3303749.84
45	Dublin City SD	87805038	0.06657	9372.87	3819519.15
46	Howland Local SD	87202941	0.21201	24584.98	3697404.70
47	Perry Local SD	85264334	0.12298	48418.13	3896580.06
48	Mayfield City SD	85046759	0.10450	21045.97	4649506.31
49	Rossford Ex Vill SD	84617700	0.32770	40046.24	3943184.82
50	Benjamin Logan Local SD	84474793	0.44155	42793.71	2635613.54

Table 11: Top 50 Districts By TPP as a Percentage of Total Property Value (TY 1993)

RANK	DISTRICT	TOTAL 1993 TPP VALUATION	1993 TPP		
			VALUE AS % TOTAL	1993 TPP VALUE/PUPIL	1993 TPP REVENUE
1	Lockland City SD	151044260	0.72204	211250.71	4061580.15
2	Anna Local SD	82330315	0.63343	85493.58	2247617.60
3	St Bernard-Elmwood Place City	135072504	0.61121	104951.44	4226418.65
4	Bath Local SD	133266342	0.48642	61300.07	3704804.31
5	Green Local SD	25947400	0.44342	32761.87	736646.69
6	Benjamin Logan Local SD	84474793	0.44155	42793.71	2635613.54
7	Cuyahoga Heights Local SD	171090931	0.41003	230580.77	3421818.62
8	Belpre City SD	53449445	0.39525	34572.73	1753141.80
9	Batavia Local SD	47844890	0.38904	30110.06	2172158.01
10	Van Buren Local SD	47784873	0.37428	53153.36	1280634.60
11	Northridge Local SD	75295463	0.36627	33764.78	3488438.80
12	Shawnee Local SD	116917149	0.36129	45635.11	3940107.92
13	Minster Local SD	30574590	0.35976	33524.77	1099768.00
14	Lordstown Local SD	40969506	0.35517	52057.82	1560938.18
15	Canton Local SD	91014057	0.35403	36289.50	3576852.44
16	Colonel Crawford Local SD	29218621	0.34993	26732.50	1452165.46
17	Marysville Ex Vill SD	118818759	0.33389	39136.61	3797447.54
18	Archbold-Area Local SD	49806909	0.33056	33116.30	1748222.51
19	Mogadore Local SD	23651265	0.33040	31535.02	1466378.43
20	Rossford Ex Vill SD	84617700	0.32770	40046.24	3943184.82
21	Weathersfield Local SD	23351981	0.32192	20288.43	1039163.15
22	Chillicothe City SD	110579100	0.31909	28566.03	4456337.73
23	Troy City SD	141452030	0.30887	29383.47	6563374.19
24	Rolling Hills Local SD	36516003	0.30678	15931.94	1467943.32
25	Warren Local SD	55423870	0.29989	20534.96	1690428.04
26	Ontario Local SD	64253356	0.29913	37443.68	2878550.35
27	Logan Elm Local SD	56614861	0.29725	25084.12	2032473.51
28	Switzerland Of Ohio Local SD	78743500	0.29616	23919.65	2763896.85
29	Ayersville Local SD	22414460	0.29426	26525.99	860715.26
30	Woodmore Local SD	30202013	0.29253	24395.81	1174858.31
31	Jackson Center Local SD	11822350	0.28920	21812.45	501267.64
32	Princeton City SD	426672233	0.28690	62977.45	19174650.15
33	North Central Local SD	12826979	0.28528	15547.85	616977.69
34	Springfield Local SD	77967439	0.28446	24981.56	3956847.53
35	Sidney City SD	107198983	0.28308	26050.79	3987802.17
36	Orrville City SD	42530288	0.27710	19599.21	1901103.87
37	Willard City SD	37438741	0.27668	15796.94	1669767.85
38	New Bremen Local SD	17624656	0.27636	19346.49	755216.51
39	Crestline Ex Vill SD	16115100	0.27171	15303.99	895999.56
40	Elgin Local SD	26197940	0.27136	16847.55	1303085.54
41	Fostoria City SD	46139538	0.27023	16015.11	1974772.23
42	Twinsburg City SD	109930145	0.26650	40223.25	4463163.89
43	Bryan City SD	48898557	0.26591	20986.51	2459597.42
44	Heath City SD	39938640	0.26368	30674.84	1633490.38
45	Lakewood Local SD	55334529	0.26114	24582.20	1814972.55
46	Canton City SD	158125079	0.25510	12174.71	7004941.00
47	Indian Creek Local SD	53980080	0.25450	19515.57	1738158.58
48	Napoleon City SD	49213108	0.25061	19360.00	1761829.27
49	Solon City SD	188195467	0.24694	46513.96	8017126.89
50	Gahanna-Jefferson City SD	182271563	0.24455	26496.81	8275128.96

Table 12: Top 50 Districts By Tangible Personal Property Valuation Per Pupil (TY 1993)

RANK	DISTRICT	TOTAL 1993 TPP VALUATION	1993 TPP		1993 TPP REVENUE
			VALUE AS % TOTAL	<u>1993 TPP</u> <u>VALUE/PUPIL</u>	
1	Cuyahoga Heights Local SD	171090931	0. 41003	230580. 77	3421818. 62
2	Lockland City SD	151044260	0. 72204	211250. 71	4061580. 15
3	St Bernard-Elmwood Place City	135072504	0. 61121	104951. 44	4226418. 65
4	Anna Local SD	82330315	0. 63343	85493. 58	2247617. 60
5	Princeton City SD	426672233	0. 28690	62977. 45	19174650. 15
6	Bath Local SD	133266342	0. 48642	61300. 07	3704804. 31
7	Van Buren Local SD	47784873	0. 37428	53153. 36	1280634. 60
8	Independence Local SD	46124075	0. 13344	52593. 02	1113896. 41
9	Lordstown Local SD	40969506	0. 35517	52057. 82	1560938. 18
10	Perry Local SD	85264334	0. 12298	48418. 13	3896580. 06
11	Solon City SD	188195467	0. 24694	46513. 96	8017126. 89
12	Shawnee Local SD	116917149	0. 36129	45635. 11	3940107. 92
13	Benjamin Logan Local SD	84474793	0. 44155	42793. 71	2635613. 54
14	Brooklyn City SD	49587402	0. 18606	40846. 29	1919032. 46
15	Bedford City SD	155264794	0. 24344	40224. 04	7843977. 39
16	Twinsburg City SD	109930145	0. 26650	40223. 25	4463163. 89
17	Rossford Ex Vill SD	84617700	0. 32770	40046. 24	3943184. 82
18	Marysville Ex Vill SD	118818759	0. 33389	39136. 61	3797447. 54
19	Ontario Local SD	64253356	0. 29913	37443. 68	2878550. 35
20	Canton Local SD	91014057	0. 35403	36289. 50	3576852. 44
21	Wickliffe City SD	55459822	0. 22346	35034. 63	2909976. 86
22	Belpre City SD	53449445	0. 39525	34572. 73	1753141. 80
23	Sycamore Community City SD	211300630	0. 18050	33846. 01	11725071. 96
24	Northridge Local SD	75295463	0. 36627	33764. 78	3488438. 80
25	Minster Local SD	30574590	0. 35976	33524. 77	1099768. 00
26	Archbold-Area Local SD	49806909	0. 33056	33116. 30	1748222. 51
27	Green Local SD	25947400	0. 44342	32761. 87	736646. 69
28	Mogadore Local SD	23651265	0. 33040	31535. 02	1466378. 43
29	Reading Community City SD	44000390	0. 24335	30986. 19	2024017. 94
30	Heath City SD	39938640	0. 26368	30674. 84	1633490. 38
31	Batavia Local SD	47844890	0. 38904	30110. 06	2172158. 01
32	Troy City SD	141452030	0. 30887	29383. 47	6563374. 19
33	Beachwood City SD	43053297	0. 08897	29327. 86	2746800. 35
34	Chillicothe City SD	110579100	0. 31909	28566. 03	4456337. 73
35	Oregon City SD	100890468	0. 22712	26761. 40	4065885. 86
36	Colonel Crawford Local SD	29218621	0. 34993	26732. 50	1452165. 46
37	Berea City SD	211234868	0. 19559	26711. 54	10910280. 93
38	Ayersville Local SD	22414460	0. 29426	26525. 99	860715. 26
39	Gahanna-Jefferson City SD	182271563	0. 24455	26496. 81	8275128. 96
40	Sidney City SD	107198983	0. 28308	26050. 79	3987802. 17
41	Lancaster City SD	82028471	0. 17481	25380. 10	4651014. 31
42	Logan Elm Local SD	56614861	0. 29725	25084. 12	2032473. 51
43	Springfield Local SD	77967439	0. 28446	24981. 56	3956847. 53
44	Howland Local SD	87202941	0. 21201	24584. 98	3697404. 70
45	Lakewood Local SD	55334529	0. 26114	24582. 20	1814972. 55
46	Woodmore Local SD	30202013	0. 29253	24395. 81	1174858. 31
47	Switzerland Of Ohio Local SD	78743500	0. 29616	23919. 65	2763896. 85
48	Woodridge Local SD	28008907	0. 11793	23696. 20	1165450. 62
49	Buckeye Local SD	49641567	0. 24125	21907. 13	2021404. 61
50	Avon Lake City SD	64741939	0. 15246	21820. 67	3095312. 10

Table 13: Top 50 Districts By Total Tangible Personal Property Tax Revenue (TY 1993)

RANK	DISTRICT	TOTAL 1993 TPP VALUATION	1993 TPP		<u>1993 TPP REVENUE</u>
			VALUE AS % TOTAL	1993 TPP VALUE/PUPIL	
1	Columbus City SD	828970877	0.13374	13111.86	42111720.55
2	Cleveland City SD	863197521	0.17552	12021.58	38584929.19
3	Cincinnati City SD	719889779	0.13794	14447.78	35044234.44
4	Dayton City SD	314007133	0.18758	11279.40	19672546.88
5	Princeton City SD	426672233	0.28690	62977.45	19174650.15
6	Toledo City SD	321443642	0.13942	8391.03	17775833.40
7	Akron City SD	321279899	0.15161	9808.88	13622267.72
8	Sycamore Community City SD	211300630	0.18050	33846.01	11725071.96
9	Berea City SD	211234868	0.19559	26711.54	10910280.93
10	South-Western City SD	238915763	0.17355	14167.21	9807492.07
11	Worthington City SD	145176449	0.11172	13452.23	8681551.65
12	Gahanna-Jefferson City SD	182271563	0.24455	26496.81	8275128.96
13	Solon City SD	188195467	0.24694	46513.96	8017126.89
14	Bedford City SD	155264794	0.24344	40224.04	7843977.39
15	Elyria City SD	127856251	0.19758	13819.31	7246892.31
16	Euclid City SD	117834523	0.16328	20914.90	7202046.05
17	Kettering City SD	146219297	0.13569	18254.59	7062392.05
18	Canton City SD	158125079	0.25510	12174.71	7004941.00
19	Washington Local SD	132330180	0.18049	18154.78	6722373.14
20	Troy City SD	141452030	0.30887	29383.47	6563374.19
21	Middletown City SD	196654808	0.22543	19792.15	6487642.12
22	Hilliard City SD	145333467	0.15329	15647.44	6439725.92
23	Mentor Ex Vill SD	105574758	0.10390	9399.46	6355600.43
24	Parma City SD	109869396	0.06677	8064.99	5575871.85
25	Lorain City SD	94554684	0.18544	8620.17	5246839.42
26	Warren City SD	98152968	0.24396	13679.86	5059785.50
27	Willoughby-Eastlake City SD	114538506	0.10202	12661.78	4952645.00
28	Westerville City SD	90567266	0.07783	7347.66	4935916.00
29	Findlay City SD	99063795	0.18570	16309.48	4700577.07
30	Lancaster City SD	82028471	0.17481	25380.10	4651014.31
31	Mayfield City SD	85046759	0.10450	21045.97	4649506.31
32	Perry Local SD	100050487	0.24309	20098.53	4472256.77
33	Twinsburg City SD	109930145	0.26650	40223.25	4463163.89
34	Chillicothe City SD	110579100	0.31909	28566.03	4456337.73
35	Lakota Local SD	92920863	0.08423	7496.64	4234403.73
36	St Bernard-Elmwood Place City	135072504	0.61121	104951.44	4226418.65
37	Wooster City SD	78765150	0.20223	17735.90	4135170.38
38	Oregon City SD	100890468	0.22712	26761.40	4065885.86
39	Lockland City SD	151044260	0.72204	211250.71	4061580.15
40	Sidney City SD	107198983	0.28308	26050.79	3987802.17
41	Springfield Local SD	77967439	0.28446	24981.56	3956847.53
42	Rossford Ex Vill SD	84617700	0.32770	40046.24	3943184.82
43	Shawnee Local SD	116917149	0.36129	45635.11	3940107.92
44	Perry Local SD	85264334	0.12298	48418.13	3896580.06
45	Springfield City SD	77681160	0.14034	6787.94	3891826.12
46	Dublin City SD	87805038	0.06657	9372.87	3819519.15
47	Marysville Ex Vill SD	118818759	0.33389	39136.61	3797447.54
48	Medina City SD	54289496	0.11629	9507.79	3772034.18
49	Youngstown City SD	80985367	0.14231	6184.45	3765819.57
50	Maumee City SD	63775796	0.17974	19867.85	3705373.75

ETPI

THE EDUCATION TAX POLICY INSTITUTE

8050 North High Street, Suite 100
Columbus, Ohio 43235-6482
(1-614) 540-4000

ETPI is comprised of organizations from across the state that are interested in how Ohio's tax policies affect Ohio's school districts and public education. The Ohio School Boards Association and the Buckeye Association of School Administrators realized the need for an independent, data-driven entity to analyze these issues. Together, they moved to organize ETPI - a 501 c3 not for profit corporation.

ETPI's mission is to educate state policy-makers and the public about the implications of proposed changes to state and local tax policies on Ohio's public school districts and to ensure adequate protections and guarantees for Ohio's primary and secondary education system.

ETPI provides only the facts; it does not take positions on public policy matters. ETPI serves as a clearinghouse for state and local policy-makers, school districts, the media and the public on the potential effects of changes to tax policy on Ohio's school districts.

ETPI membership includes over 100 individual school districts, as well as several statewide organizations, including the Ohio Association of Joint Vocational School Superintendents, the Alliance for Adequate School Funding, Ohio Coalition for Equity and Adequacy of School Funding, the County Commissioners Association of Ohio, the Ohio Department of Education, the Ohio Library Association, the Association of Two Year Colleges, and the Ohio Association of School Business Officials. Membership is open to any organization sharing ETPI's interest.

ETPI relies on the expertise of some of the state's most respected tax policy analysts to gather data, conduct research, and publish studies addressing how proposed tax policy modifications affect not only overall school funding, but also individual school districts.

ETPI analysts include: the firms of Levin & Driscoll, Limbach and Associates, and Professor Howard Fleeter of the School of Public Policy and Management at The Ohio State University.