# IBA Market Data Sample Report



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# IBA Market Data

IBA Market Data is the largest and most useful collection of transaction data for small to medium businesses. It is an invaluable resource for the Market Approach to valuation of privately held businesses, and now it is available without IBA membership requirements. The premier data source for the Market Approach, IBA Market Data provides more and better transaction data:

- More comps: over 33,000 comparables
- More industries: over 780 SIC codes
- More large sales: over 4,000 over \$1M
- More recent: over 5,000 from the last 5 years

With IBA Market Data, you have not only a large number of comparables across a large number of SIC / NACIS codes, but for the first time you will have access to the expanded data as well. Besides Price/Sales, Price/EBT, SIC, NAICS, Location, Annual Gross, Annual Earnings, Owner's Comp, Sales Price, Business Description, sale date, and geographic area, there are fifteen asset fields (for one year) and sixteen income statement fields (for three years). The expanded data does not exist for every transaction, but there is a significant amount of expanded data and it's growing every month.

#### Web-Based Data Delivery

IBA Market Data from ValuSource is web-based, so you have no delays for shipping or installation problems. Simply point your web browser to the ValuSource data website, log in with your unique ID and password (provided with your subscription), and select IBA Market Data from the menu. A simple interface allows you to select the data you wish to use.

#### Why You Need IBA Market Data

Business valuators have relied on IBA Market Data for over two decades. IBA Market Data is simply the largest collection of useful data on small business transactions. Now, in 2009, for the first time, you can use the IBA Market Data without an IBA membership. The depth and breadth of the IBA Market Data, coupled with the outstanding technical support and training from ValuSource, makes this a very valuable part of your Market Approach calculations.

# Finding the Right Data

IBA Market Data makes it easy to zero in on the right data for your Market Approach calculations.

#### Selecting an Industry

IBA Market Data defines industries by Standard Industrial Classification (SIC) codes. You can specify up to three codes at a time. IBA Market Data also allows you to search for industries by description keywords.

A. Industry	
*ENTER 1 - 3 SIC CODES	
ENTER DESCRIPTION KEYWORD(S)	

#### Selecting a Location

IBA Market Data makes it simple to refine your search by location. You can select a state, or you can choose one of sixteen geographic areas. These areas include the regions and divisions defined by the United States Census Bureau, plus three additional commonly accepted areas.



Census Regions	<b>Census Divisions</b>	Other Areas						
Midwest	East North Central	East						
Northeast	East South Central	Northwest						
South	Middle Atlantic	Southwest						
West	Mountain							
	New England							
	Pacific							
	South Atlantic							
	West North Central							
	West South Central							

#### Specifying Financial Criteria and Transaction Date Range

You can quickly and easily specify a range of Sales, Discretionary Earnings (DE), and/or Price. You can also specify a range for the transaction date.



# Exporting the Data

IBA Market Data provides three ways to export the transaction records to a Microsoft® Excel workbook. You select an export option from the bottom of the screen.



- ► The **Data Only** option downloads just the data, with no analysis worksheets or charts. If you prefer to create your own analysis, select this option.
- ► The **Direct Market Data Method Report** option downloads the data plus the analysis worksheets and charts for applying the Direct Market Data Method. For more information about this option, see page 4.
- ► The **Transaction Analysis** option downloads the data plus analysis worksheets and charts provided by ValuSource. For more information about this option, see page 8.

# Direct Market Data Method Report

The Direct Market Data Method Report provides the data and analysis needed to apply the Direct Market Data Method. The Institute of Business Appraisers (IBA) provides detailed information about the Direct Market Data Method, including how to apply the method and its theoretical basis, on their website (www.go-iba.org). To learn about the method, please review the tutorials under the Market Data section on the IBA home page. Each of the analysis worksheets and charts included in the report workbook are explained below.

### Extended Data

The Extended Data worksheet contains all of the data available for the downloaded transactions. A subset of this data is used in the analysis performed in the workbook.

F	В	C	D	E	F	G	н	I	J	K	L	М	N	0	~
1															-2
2	Admin				Sum	mary									
3	ID	SIC	Business Description	Sales	DE	Price	Price / Sales	Price / DE	State	Sale Date	SIC	Business Description	Age	Owned	F
4	3600	5812	Italian Restaurant	155	21	35	0.23	1.67	MA	07/01/96	5812	Italian Restaurant			
5	3606	5812	Deli, Sandwich	175	44	45	0.26	1.02	MA	12/01/96	5812	Deli, Sandwich			
6	3610	5812	Deli, Sandwhich Shop	386	86	84	0.22	0.98	MA	07/01/96	5812	Deli, Sandwhich Shop			
7	3620	5812	Deli, Sandwichwes	305	41	50	0.16	1.22	MA	02/01/97	5812	Deli, Sandwichwes			
8	3624	5812	Diner, Breakfast/Lunch	148	42	34	0.23	0.81	MA	03/01/97	5812	Diner, Breakfast/Lunch			
9	3626	5812	Deli/caterer	372	50	135	0.36	2.70	MA	05/01/97	5812	Deli/caterer			
10	3646	5812	Deli, Sandwiches	146	28	35	0.24	1.25	MA	09/01/97	5812	Deli, Sandwiches			
11	3695	5812	Restaurant	201	42	45	0.22	1.07	PA	10/01/96	5812	Restaurant			
12	3709	5812	Franchise Deli	335	47	175	0.52	3.72	TN	10/01/96	5812	Franchise Deli			
13	3721	5812	Deli, Franchise	256	63	80	0.31	1.27	AL	04/01/97	5812	Deli, Franchise			
14	3723	5812	Family Restaurant	315	32	52	0.17	1.63	TN	01/01/97	5812	Family Restaurant			
15	3725	5812	Deli	76	48	46	0.61	0.96	TN	04/01/97	5812	Deli			
16	3731	5812	Deli, Franchise	510	74	230	0.45	3.11	TN	07/01/97	5812	Deli, Franchise			
17	3786	5812	Pizza Rest.	347	61	90	0.26	1.48		08/01/97	5812	Pizza Rest.			
18	3792	5812	Coffee Shop	131	34	28	0.21	0.82		08/01/97	5812	Coffee Shop			
19	3798	5812	Restaurant	400		350	0.88			01/01/98	5812	Restaurant			
20	3808	5812	Drive-Thru, Carry-Out	1,000	100	160	0.16	1.60		07/01/93	5812	Drive-Thru, Carry-Out			
21	3888	5812	Sandwich Shop	119	11	57	0.48	5.18	FL	07/01/97	5812	Sandwich Shop			
22	4567	5812	Restaurant, full service	600		325	0.54		DC	01/01/85	5812	Restaurant, full service			
23	4568	5812	Restr., continental	600		200	0.33		VA	12/01/85	5812	Restr., continental			
24	4569	5812	Restaurant	4,193		1,700	0.41		CA	05/01/87	5812	Restaurant			
25	4570	5812	Dunkin Donuts	700	120	400	0.57	3.33		01/01/90	5812	Dunkin Donuts			
26	4571	5812	Deli	225		50	0.22		NY	05/01/91	5812	Deli			
27	4572	5812	Restaurant	234		155	0.66		NY	08/01/91	5812	Restaurant			
28	4573	5812	Restaurant	4,244	290	2,108	0.50	7.27	FL	11/01/91	5812	Restaurant			
29	4574	5812	Restaurant	265		350	1.32		FL	03/01/92	5812	Restaurant			
30	4575	5812	Restaurant	365		120	0.33		AZ	04/01/84	5812	Restaurant			
31	4576	5812	Restaurant Lounge	480		170	0.35		OR	04/01/84	5812	Restaurant Lounge			
32	4577	5812	Coffee Shop, Chain	1,400		625	0.45		WA	05/01/84	5812	Coffee Shop, Chain			
33	4578	5812	Sandwich Shop	35		32	0.91		CA	11/01/84	5812	Sandwich Shop			
34	4579	5812	Rest - independ.	350		375	1.07		MN	11/01/84	5812	Rest - independ.			
35	4580	5812	Diner	125	15	23	0.18	1.53	NY	07/01/84	5812	Diner			
36	4581	5812	Deli Carry-Out	362		225	0.62		٧A	01/01/85	5812	Deli Carry-Out			
37	4582	5812	Diner	162		35	0.22		NY	02/01/85	5812	Diner			
38	4583	5812	Restaurant	85		35	0.41		NY	04/01/85	5812	Restaurant			
39	4584	5812	Restaurant/bar	92		25	0.27		TX	04/01/85	5812	Restaurant/bar			
40	4585	5812	Restaurant/Bar	550		309	0.56		DC	04/01/85	5812	Restaurant/Bar			
41	4586	5812	Restaurant, steak house	572		375	0.66		TX	04/01/85	5812	Restaurant, steak house			
42	4587	5812	Restr-Dinner House	453		196	0.43		AZ	05/01/85	5812	Restr-Dinner House			~
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## Select Trans

The Select Trans worksheet shows the selection status for all of the downloaded transactions. You can manually select the transactions to analyze.



#### Trans Selected

The Trans Selected worksheet contains the selected transactions. The data used in the analysis is drawn from this worksheet. The Trans Selected worksheet is updated automatically every time you change the transactions that are selected in the Select Trans sheet. You can deselect transactions from this worksheet. To assist you in selecting outliers, the worksheet calculates the variation from mean for Sales, Discretionary Earnings (DE), Price, Price / Sales, and Price / DE.



#### Limits

The Limits worksheet calculates the 10% and 25% data points used to create the lines on the charts. The limit lines are explained in detail in the tutorials that appear on the IBA website.

	A	В	С	DE	F	G	H I	J K	L	M	N	0	F
1													
2				Price / Sales					Price / DE				
4	_	Descending	Ascending	Number of Transactions			Descending	Ascending	Number of Transaction	ns			
	_	15.416/	0.0053	Total	4,268		450.0000	0.0443	Total	4,268			
6	_	12.5410	0.0142	10% Rounded to Integer	427		236.1702	0.0741	10% Rounded to Integer	427			
	_	6.5000	0.0182	25% Rounded to Integer	1067		162.0000	0.0741	25% Rounded to Integer	1067			
	_	6.5000	0.0208				140.0000	0.0781					
9		6.4286	0.0208	Ratio Limits	0.471		101.0000	0.08/0	Ratio Limits	2.0020			
1		5.8571	0.0278	10% Upper Limit	0.64/1		76.0000	0.0919	10% Upper Limit	3.8636			
		5.3150	0.0297	10% Lower Limit	0.1003		51.0000	0.1053	10% Lower Limit	0.7778			
	-	5.1429	0.0321	25% Opper Limit	0.9600		50.0000	0.1349	25% Upper Limit	2.3610			
1.	2	5.0000	0.0347	25% Lower Limic	0.2629		40.0000	0.1714	25% Lower Limit	1.1111			
	*	4.///0	0.0365	chart Data		1 Back	45.0000	0.1714	chart Data		111-6		
13	2	4.0007	0.0412	Enart Data	2	202.160	40.0000	0.1/00		LOW	22 E09		
	7	3,0007	0.0417	10% Upper Limit Drice	é	105 515	20,0000	0.1010	10% Linner Limit Drice	1	22,300		
		3,3333	0.0433	10% Lower Limit Price	1	195,515 E6 202	39.0905	0.2000	10% Upper Limit Price	7	17 506		
	2	3.0004	0.0435	25% Upper Limit Price	2	147.625	27 5000	0.2000	25% Linner Limit Price	1	17,500 E2 E00		
1	2	2,000	0.0435	25% Upper Limit Price	2	70,425	37.5000	0.2020	25% Upper Limit Price	2	25,000		
2	_	2,0009	0.0435	25% Lower Little Price	2	79,420	35,0000	0.2190	25% LOwer Linic Price	1	25,009		
2	2	2,0040	0.0441				33,0000	0.2203					
2	-	2,0009	0.0409				33,0000	0.2273					
2	1	2,7350	0.0484				30,000	0.2273					
2		2.5000	0.0484				30,0000	0.2308					
2		2.4444	0.0500				28,1818	0.2308					
2	7	2,3256	0.0521				28,000	0.2375					
2	3	2,2941	0.0521				26,1538	0.2475					
2	9	2,2083	0.0528				26,000	0.2475					
3	5	2,1065	0.0533				25,4545	0.2500					
3		2,1065	0.0533				25.000	0.2532					
3	2	2,0619	0.0551				25.000	0.2532					
3	3	2.0574	0.0556				24,4444	0.2532					
3	1	2.0574	0.0556				24.3750	0.2600					
3	5	2.0574	0.0563				23.0769	0.2600					
3	5	2.0571	0.0594				23,000	0.2632					
3	7	1.9792	0.0594				23.0000	0.2632					
3	3	1.9763	0.0603				23.0000	0.2640					
3	9	1.8939	0.0604				21.8000	0.2642					
4	)	1.8904	0.0625				21.6842	0.2738					
4	L	1.8904	0.0625				20.8000	0.2778					
4;	2	1.8692	0.0632				20.5000	0.2800					~
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#### Tools

The Tools worksheet automates analysis tasks. You can select transactions by search criteria (such as Sales or Discretionary Earnings), sort the transactions in all of the worksheets at once, export the selected transactions to a new workbook, and more.

Ratio Validation         Check the ratio fields for data. The tools on this sheet will only select transactions with data for these ratios:         Image: Check transactions         Image: Check transaction the selected transactions         Image: Check transaction transactions         Image: Check transaction transactions         Image: Check transaction transactions         Image: Check transactions         Im	Select by Criteria         Select transactions that meet the following criteria. Blank criteria are ignored.         Sales       Min       Max         Sales       De       De       De         Price       Sales       De       De       De         Price       Sales       De       De <td< th=""><th>Select Worksheets and Charts Choose the worksheets and charts to digilary. If you expert transactions, only the digilary defined the new workbook. <b>Right-Click Here</b> Copy the selected <b>Transactions</b> Copy the selected <b>Transactions</b> and the digilaryed dharts to a new workbook. <b>Right-Click Here</b></th><th></th><th></th></td<>	Select Worksheets and Charts Choose the worksheets and charts to digilary. If you expert transactions, only the digilary defined the new workbook. <b>Right-Click Here</b> Copy the selected <b>Transactions</b> Copy the selected <b>Transactions</b> and the digilaryed dharts to a new workbook. <b>Right-Click Here</b>		
Click here for Help	Click here for Definitions	PLEASE NOTE: Yellow cells respond to right-clicks.		
II → ▶ II \ Instructions / Extended Data /	Select Trans / Trans Selected / Limits )	Tools / Statistics / Price to Sales (0) / Pr	ice to 🔍 👘	>

## Statistics

The Statistics worksheet provides two groups of statistics, one for all of the downloaded transactions, and one for the selected transactions.

	А	В	С	D	E	F	G	Н	]		J	K	L		М	N	
1		ļ															-
2			A	ll Transac	tions												
3			Sales	DE	Price	Price / Sales	Price / DE										
4		Low	\$0	(\$1,400)	\$0	0.01	0.04										
5		High	\$302,160	\$22,508	\$306,000	15.42	450.00										
6		Mean	\$549	\$77	\$290	0.44	2.65										
7		Median	\$222	\$50	\$80	0.37	1.60										
8		Standard Deviation	\$6,073	\$413	\$4,753	0.49	9.22										
9		Coefficient of Variation				1.10	3.48										
10		Harmonic Mean				0.30	1.32										
11		Count	5,944	4,725	6,145	5,731	4,284										
12																	
13			Tran														
14			Price / DE														
15		Low	\$7	\$1	\$2	0.01	0.04										
16		High	\$302,160	\$22,508	\$306,000	15.42	450.00										
17		Mean	\$531	\$85	\$294	0.43	2.64										
18		Median	\$245	\$56	\$85	0.36	1.60										
19		Standard Deviation	\$5,574	\$432	\$5,322	0.46	9.23										
20		Coefficient of Variation				1.08	3.49										
21		Harmonic Mean				0.29	1.31										
22		Count	4,268	4,268	4,268	4,268	4,268										
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	_
31																	
32																	~
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### Charts

The charts show the relationship between two variables—either Price to Sales, or Price to Discretionary Earnings (DE)—with each selected transaction appearing as a point showing the transaction's values for the two variables. In addition the charts may also show the upper and lower 10% and 25% limit lines for the selected transactions. There are six charts in the workbook:

- Price to Sales (0) No limit lines
- Price to Sales (2) 25% limit lines
- Price to Sales (4) 25% and 10% limit lines
- Price to DE (0) No limit lines
- **Price to DE (2)** 25% limit lines
- Price to DE (4) 25% and 10% limit lines



# Transaction Analysis

Each of the analysis worksheets and charts included in the Transaction Analysis workbook are explained below.

## Extended Data

The Extended Data worksheet contains all of the data available for the downloaded transactions. A subset of this data is used in the analysis performed in the workbook.

	A B	C	D	E	F	G	Н	I	J	K	L	М	N	0	^
1															_
2	Admin				Sum	mary									
3	ID	SIC	Business Description	Sales	DE	Price	Price / Sales	Price / DE	State	Sale Date	SIC	Business Description	Age	Owned	F
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19	3798	5812	Restaurant	400		350	0.88			01/01/98	5812	Restaurant			
20	3808	5812	Drive-Thru, Carry-Out	1,000	100	160	0.16	1.60		07/01/93	5812	Drive-Thru, Carry-Out			
21	3888	5812	Sandwich Shop	119	11	57	0.48	5.18	FL	07/01/97	5812	Sandwich Shop			
22	4567	5812	Restaurant, full service	600		325	0.54		DC	01/01/85	5812	Restaurant, full service			
23	4568	5812	Restr., continental	600		200	0.33		VA	12/01/85	5812	Restr., continental			
24	4569	5812	Restaurant	4,193		1,700	0.41		CA	05/01/87	5812	Restaurant			
25	4570	5812	Dunkin Donuts	700	120	400	0.57	3.33		01/01/90	5812	Dunkin Donuts			
26	4571	5812	Deli	225		50	0.22		NY	05/01/91	5812	Deli			
27	4572	5812	Restaurant	234		155	0.66		NY	08/01/91	5812	Restaurant			-
28	4573	5812	Restaurant	4.244	290	2.108	0.50	7.27	FL	11/01/91	5812	Restaurant			-
29	4574	5812	Restaurant	265		350	1.32		FL	03/01/92	5812	Restaurant			-
30	4575	5812	Restaurant	365		120	0.33		A7	04/01/84	5812	Restaurant			-
31	4576	5812	Restaurant Lounge	480		170	0.35		OR	04/01/84	5812	Restaurant Lounge			-
32	4577	5812	Coffee Shop, Chain	1.400		625	0.45		WA	05/01/84	5812	Coffee Shop, Chain			-
33	4578	5812	Sandwich Shop	35		32	0.91		CA	11/01/84	5812	Sandwich Shon			-
34	4579	5812	Rest - independ.	350		375	1.07		MN	11/01/84	5812	Rest - independ.	-		-
35	4580	5812	Diper	125	15	23	0.18	1.53	NY	07/01/84	5812	Diper	-		-
36	4581	5812	Deli Cerry-Out	362		225	0.62	1100	VA.	01/01/85	5812	Deli Cerry-Out	-		-
37	4582	5812	Diper	162		35	0.02		NV	02/01/85	5812	Diper			-
38	4583	5812	Pertaurant	85		35	0.22		NV	04/01/85	5812	Pectaurant			F
30	4584	5812	Poctaurant/bar	92		25	0.41		TY	04/01/85	5812	Pactaurant/bar			+
40	4505	5012	Rescouranyual Doctouropt/Por	92		200	0.27		DC	04/01/05	5012	Restaurant/Par			H
41	4500	5012	Restauranyuar Bastaurant, staak bausa	550		275	0.50		TV	04/01/05	5012	Restaurant, staak bourg			H
42	4500	5012	Restaurant, Steak House	372		3/5	0.00		10	05/01/05	5012	Restaurant, steak nouse			
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## Select Trans

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#### **Trans Selected**

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Tools

The Tools worksheet automates analysis tasks. You can select transactions by search criteria (such as Sales or Discretionary Earnings), sort the transactions in all of the worksheets at once, export the selected transactions to a new workbook, and more.

Ratio Validation Select by Criteria Select Worksheets and C	harts
Check the ratio fields for data. The tools on this sheet will only select transactions with data for these ratios: Select transactions that meet the following criteria. Blank criteria are ignored. Min Max Nax	ts to 15, only in the
X Price / Sales 0 500 Right-Click Here	
X Price / DE Price Export Selected Transact	tions
PLEASE NOTE: Copy the selected transactions a displayed charts to a new workbo When ratio validation is turned off, Sale Date Copy the selected transactions a displayed charts to a new workbo	nd the pok.
you may see errors in the charts. Right-Click Here	
Apply now to the selected transactions: SIC Histogram Y Axis	
Right-Click Here Description D	ogram When
Right-Click Here it beins to use a common V avis s	h other, cale
worksheets by these criteria:	
Sort by (1) Solet all of the transations	XI5
Then by (2) Right-Click Here	
Order (1) Deselect All	
Order (3) Deselect all of the transactions.	
Right-Click Here	
пуль ыкклыс	
PLEASE NOTE:	
Click here for Help Click here for Definitions Yellow cells respond to right	-clicks.
H + + H \ About / Extended Data / Select Trans / Trans Selected \ Tools / Statistics / Histogram Data / Price to	Sales / P-to-S <

## Statistics

The Statistics worksheet provides two groups of statistics, one for all of the downloaded transactions, and one for the selected transactions.

	A	В	C	D	E	F	G	Н		I	J		К	L	М	N		
1																Ħ		
2			A	ll Transac	tions													
3			Sales	DE	Price	Price / Sales	Price / DE											
4		Low	\$0	(\$1,400)	\$0	0.01	0.04											
5		High	\$302,160	\$22,508	\$306,000	15.42	450.00											
6		Mean	\$549	\$77	\$290	0.44	2.65											
7		Median	\$222	\$50	\$80	0.37	1.60											
8		Standard Deviation	\$6,073	\$413	\$4,753	0.49	9.22											
9		Coefficient of Variation				1.10	3.48											
10		Harmonic Mean				0.30	1.32											
11		Count	5,944	4,725	6,145	5,731	4,284											
12																		
13			Tran	sactions S	elected													
14			Sales	DE	Price	Price / Sales	Price / DE											
15		Low	\$7	\$1	\$2	0.01	0.07											
16		High	\$500	\$538	\$910	6.50	162.00											
17		Mean	\$228	\$55	\$90	0.43	2.27											
18		Median	\$204	\$50	\$73	0.38	1.53											
19		Standard Deviation	\$115	\$34	\$69	0.37	4.61											
20		Coefficient of Variation				0.86	2.03											
21		Harmonic Mean				0.31	1.27											
22		Count	3,502	3,502	3,502	3,502	3,502											
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
32				,	,			,			,		_				_	~
lia a	• 1	N \ About / Extended Data	a / Select Tr	ans ( Trans	Selected (	loois ) Statistics	s ( Histogram	Data 🔬	Price 1	to Sale:	5 <u>(</u> P-t	:o-S	<				>	

#### Histogram Data

The Histogram Data worksheet contains the data used in the histogram charts.

	A B	C	D E	F	G	Н	I	J	K	L	Μ	N	0	P	Q	R	. ^
1					_												
2		Sales		DE		F	Price		Pric	e / Sales		Prie	ce / DE				
3	4.98	= Bin Increment	5.4	2 = Bin Increment		9.17	= Bin Increment		0.07	= Bin Increment		1.64	= Bin Increment				
4	16	= Lookup Index	13	= Lookup Index		10	= Lookup Inde>		7	= Lookup Index		4	= Lookup Index				
5	228	= Mean	55	= Mean		90	= Mean		0.43	= Mean		2.27	= Mean				
6	46%	= Mean %	119	6 = Mean %		11%	= Mean %		8%	= Mean %		3%	= Mean %				
7	Bins	Frequency	Bin	s Frequency		Bins	Frequency		Bins	Frequency		Bins	Frequency		Percentile		
9	7.00	1	1.0	0 12		2.00	4		0.01	1		0.07	2		1%		
10	11.98	4	6.4	2 49		11.17	24		0.08	34		1.71	2,012		2%		
11	16.96	7	11.8	5 71		20.34	111		0.15	105		3.35	1,133		3%		
12	21.94	2	17.2	7 124		29.52	158		0.21	303		4.98	157		4%		
13	26.92	4	22.7	0 162		38.69	267		0.28	455		6.62	74		5%		
14	31.90	4	28.1	2 254		47.86	284		0.34	579		8.25	31		6%		
15	36.88	14	33.5	5 270		57.03	390		0.41	544		9.89	16		7%		
16	41.86	9	38.9	7 264		66.20	314		0.47	471		11.52	23		8%		
17	46.84	16	44.3	9 288		75.37	329		0.54	330		13.16	9		9%		
18	51.82	18	49.8	2 227		84.55	163		0.60	228		14.79	4		10%		
19	56.80	13	55.2	4 290		93.72	211		0.67	135		16.43	4		11%		
20	61.78	17	60.6	7 267		102.89	224		0.73	65		18.07	6		12%		
21	66.76	37	66.0	9 205		112.06	130		0.80	59		19.70	5		13%		
22	71.74	24	71.5	2 138		121.23	123		0.87	45		21.34	2		14%		
23	/6./2	32	76.5	4 1/4		130.40	113		0.93	29		22.97	2		15%		
24	81.70	37	82.3	6 126		139.58	69		1.00	8		24.61	3		16%		
25	86.68	42	87.7	9 85		148.75	94		1.06	26		26.24	3		17%		
26	91.66	52	93.2	1 106		157.92	80		1.13	16		27.88	U		18%		
27	96.64	42	98.6	4 64		167.09	64		1.19	2		29.52	2		19%		
28	101.62	64	104.	JD 90		176.26	55		1.26	3		31.15	2		20%		
29	106.60	44	109.	18 42		185.43	51		1.32	-		32.79			21%		
30	111.58	50	114.	91 35		194.61	28		1.39	5		34.42	1		22%		
31	116.56	91	120.	53 31 76 33		203.78	40		1.46	3		35.05	1		23%		
32	121.54	91	125.	/b 32		212.95	13		1.52	4		37.69	1		24%		
33	120.52	40	131.	10 15		222.12	22		1.59	1		39.33	1		23%		
34	101.49	49	130.	DI 13		231.29	15		1.05	3		40.96			20%		
35	130.47	90	142.	JS 10		240.40	14		1.72	2		42.00	1		27.76		
30	141.45	40	197.5	to 0		249.04	3		1.70	0		44.24	1		20%		
3/	146.43	98	152.0	18 8 NO 7		258.81	22		1.85	<u> </u>		45.87	1		29%		
38	151.41	102	158.	00 / 70 1		207.98	4		1.91	5		40.14	1		30%		
39	100.39	00	103.	I I I		2//.10	° E		2.05	1		49.14	1		3176		
40	101.3/	20	109.	LJ J 20 1		200.32	5		2.00	7		DU./O	1		3270		
41	100.35	32	174.:	00 I		295,49	8		2.11			52.41	0		33%		
42	171.33	0/ E2	100.0	JU 1 10 1		304.07	3		2.10	1		04.00 EE 40	0		3470		
43	176.31		105.	1		313.04	2		2.24	1		33.00	U		3376		¥
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## Scatter Charts

A scatter chart shows the relationship between two variables, with each selected transaction appearing as a point showing the transaction's values for the two variables. There are four scatter charts in the workbook:

- Price to Sales
- P-to-S over Sales (Price-to-Sales over Sales)
- Price to DE
- **P-to-DE over DE** (Price-to-DE over DE)



#### Histograms

A histogram shows how the selected transactions are distributed across the range of a given variable. For example, the Trans by Sales histogram shows how many transactions fall into each percentile of the sales range, with the minimum sales at the first percentile (1%) and the maximum sales at the one hundredth percentile (100%). There are five histograms in the workbook:

- Trans by Sales (Transactions by Sales)
- Trans by DE (Transactions by DE)
- **Trans by Price** (Transactions by Price)
- Trans by P-to-S (Transactions by Price-to-Sales)
- **Trans by P-to-DE** (Transactions by Price-to-DE)

