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## Arts Trade Association Dinner: Speech Research (1963-1967): Report 01

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## ANNUAL SURVEY OF MANUFACTURES

Table 1.--General Statistics for Industry Groups

Code	Industry group and industry	1962 <sup>1</sup>								
		All employees		Production workers			Value added by manufacture, adjusted <sup>3</sup> (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, net <sup>4</sup> (\$1,000)
		Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)				
		A	B	C	D	E	F	G	H	I
37	Transportation equipment.....	1,593,847	11,299,991	1,122,859	2,354,398	7,140,790	20,946,313	\$30,579,049	\$51,373,498	853,619
371	Motor vehicles and equipment.....	666,834	4,680,815	546,824	1,170,404	3,633,204	11,604,192	\$22,174,485	\$33,733,441	502,582
3713	Truck and bus bodies <sup>10</sup> .....	25,066	131,713	19,707	41,182	94,448	200,302	317,907	503,970	(6,936)
3715	Truck trailers.....	20,205	117,329	15,833	31,789	83,029	218,489	325,649	543,804	6,150
3717	Motor vehicles and parts.....	621,563	4,431,773	511,284	1,097,433	3,455,727	11,185,401	\$21,530,929	\$32,705,667	489,496
372	Aircraft and parts.....	715,211	5,334,024	401,584	841,241	2,530,177	7,466,532	\$6,315,392	\$13,723,359	291,422
3721	Aircraft.....	326,140	2,468,712	180,369	378,192	1,131,358	4,363,486	2,842,279	\$4,203,647	119,655
3722	Aircraft engines and parts.....	178,635	1,331,068	103,049	216,042	643,986	1,984,030	3,660,604	3,660,322	78,487
3723	Aircraft propellers and parts....	9,764	72,260	5,687	13,033	36,150	99,055	63,806	157,320	3,964
3729	Aircraft equipment, nec <sup>10</sup> .....	200,672	1,461,984	112,479	233,934	716,683	2,019,961	1,722,703	3,699,870	(89,316)
373	Ships and boats.....	134,272	837,050	112,869	226,236	658,099	1,101,908	\$890,827	\$1,984,602	35,434
3731	Ship building and repairing.....	111,613	732,722	94,065	186,243	577,392	1,932,857	716,345	\$4,670,202	23,014
3732	Boat building and repairing <sup>10</sup> ....	22,659	104,328	18,804	39,993	80,707	148,051	174,482	314,400	(12,420)
374	Railroad equipment.....	41,632	279,343	31,576	62,052	196,814	501,145	\$660,356	\$1,108,934	17,133
3741	Locomotives and parts.....	14,214	99,753	10,684	21,573	68,677	224,169	241,999	443,246	5,231
3742	Railroad and street cars.....	27,418	179,590	20,892	40,479	128,137	276,976	418,357	665,708	11,902
3751	Motorcycles, bicycles, and parts...	9,028	42,944	7,314	13,974	30,072	74,162	102,861	172,600	3,321
379	Transportation equipment, nec <sup>10</sup> ....	26,870	125,815	22,692	40,486	92,424	198,374	\$435,128	\$630,542	(3,727)
3791	Trailer coaches <sup>10</sup> .....	21,074	97,698	17,949	31,323	73,889	153,181	356,828	507,583	(2,801)
3799	Transportation equipment, nec <sup>10</sup> ..	5,796	28,117	4,743	9,163	18,535	45,193	78,300	122,959	(926)
38	Instruments and related products.....	354,767	2,261,759	227,442	459,340	1,191,326	4,303,090	\$2,448,863	\$6,639,351	191,443
3811	Scientific instruments.....	97,285	703,980	56,180	114,816	334,693	1,116,550	635,751	1,713,938	42,337
382	Mechanical measuring devices.....	93,809	543,681	60,051	123,669	300,822	1,009,508	\$531,854	\$1,522,040	39,131
3821	Mechanical measuring devices....	65,077	376,233	41,264	85,572	205,410	673,981	406,882	1,073,753	29,626
3822	Automatic temperature controls....	28,732	167,448	18,787	38,097	95,412	335,527	124,972	448,287	9,505
3831	Optical instruments and lenses.....	8,318	59,019	5,878	12,030	33,800	83,771	46,502	134,153	8,190
384	Medical instruments and supplies <sup>10</sup> ..	48,536	281,957	31,923	63,278	141,829	583,090	\$376,472	\$939,951	28,995
3841	Surgical and medical instruments..	12,373	66,998	9,217	18,214	40,787	129,182	99,804	216,740	6,753
3842	Surgical appliances and supplies <sup>10</sup> .....	28,882	175,897	17,593	35,088	78,422	365,902	230,820	583,633	20,355
3843	Dental equipment and supplies....	7,281	39,062	5,113	9,976	22,620	88,006	51,848	139,558	1,887
3851	Ophthalmic goods.....	21,068	93,744	17,764	35,333	70,240	159,919	81,690	241,475	7,133
3861	Photographic equipment.....	59,429	439,998	35,582	70,612	223,000	1,098,113	573,506	1,635,950	57,187
387	Watches and clocks <sup>10</sup> .....	26,322	139,380	20,064	39,382	86,942	252,139	\$203,088	\$451,844	(8,270)
3871	Watches and clocks <sup>10</sup> .....	24,029	127,734	18,053	35,445	77,890	240,142	191,266	427,266	(8,031)
3872	Watchcases <sup>10</sup> .....	2,293	11,646	2,011	3,937	9,052	11,997	11,828	24,578	(12)
39	Miscellaneous manufacturing <sup>6</sup> ...	588,029	3,299,489	418,800	829,886	1,867,827	5,740,048	\$4,829,896	\$10,412,083	213,883
391	Jewelry and silverware.....	43,477	219,778	33,919	70,130	151,539	397,265	\$398,302	\$788,916	5,762
3911	Jewelry, precious metal.....	21,740	112,888	16,092	34,617	72,333	203,942	210,974	411,367	1,764
3912	Jewelers' findings and materials <sup>10</sup> .....	5,839	26,537	4,575	9,239	17,402	46,803	51,294	96,981	(1,278)
3913	Lapidary work <sup>10</sup> .....	(1,929)	(8,310)	(1,721)	(2,879)	(5,794)	(16,473)	(28,398)	(44,852)	(12)
3914	Silverware and plated ware <sup>10</sup> ....	13,969	72,043	11,531	23,395	55,810	130,047	107,636	235,716	(2,391)
3921	Musical instruments and parts.....	23,517	117,172	18,445	36,659	81,189	178,464	182,260	352,310	4,433
394	Toys and sporting goods.....	107,401	432,215	89,355	171,337	297,630	945,342	\$845,963	\$1,761,932	47,628
3941	Games and toys, nec.....	47,956	185,629	39,279	77,689	129,260	406,076	325,630	715,015	18,082
3942	Dolls.....	18,335	62,325	16,932	28,534	46,707	148,864	130,770	273,577	9,510
3943	Children's vehicles.....	4,336	19,241	3,717	8,222	14,576	31,824	43,832	75,550	1,327
3949	Sporting and athletic goods, nec.	36,724	165,020	29,427	56,892	107,087	358,578	345,731	697,790	18,709
395	Office supplies <sup>10</sup> .....	29,787	144,279	21,589	43,457	84,292	298,871	\$248,260	\$544,316	14,517
3951	Pens and mechanical pencils <sup>10</sup> ....	10,509	48,629	8,083	15,721	29,035	109,846	70,208	180,906	(6,144)
3952	Lead pencils and art goods.....	5,963	26,470	4,544	9,483	16,146	57,200	52,378	107,582	1,797
3953	Marking devices <sup>10</sup> .....	6,847	34,635	4,548	9,430	20,451	58,765	31,680	89,929	(2,331)
3955	Carbon paper and inked ribbons <sup>10</sup> ..	6,468	34,545	4,414	8,823	18,660	73,060	92,994	165,899	(4,245)
396	Costume jewelry and notions.....	33,673	204,281	44,699	83,903	141,871	390,842	\$320,187	\$703,869	10,792
3961	Costume jewelry.....	22,340	81,142	18,319	34,672	52,644	119,316	119,316	233,167	1,408
3962	Artificial flowers <sup>10</sup> .....	5,231	15,637	4,407	7,878	10,609	28,178	31,638	59,830	(12)
3963	Buttons.....	5,401	20,523	4,672	9,495	15,809	38,456	33,534	73,867	1,824
3964	Needles, pins, and fasteners <sup>10</sup> ...	20,701	86,979	17,101	31,858	62,809	188,004	135,699	319,005	7,227

See footnotes at end of table.

GENERAL STATISTICS

and Industries: 1962, 1961, and 1958--Continued

All employees		Production workers			Value added by manufacture, adjusted <sup>a</sup> (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new <sup>a</sup> (\$1,000)	1958		Standard error of 1962 estimates (percent) for columns 11-12		Code
Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)					All employees, number <sup>2</sup>	Value added by manufacture, adjusted <sup>a</sup> (\$1,000)	A/J	F/O	
J	K	L	M	N	O	P	Q	R	S	T	A/J	F/O	
1,503,344	10,115,288	1,054,925	2,146,431	6,319,891	17,530,249	<sup>a</sup> 26,004,098	<sup>a</sup> 43,639,448	717,983	1,557,902	15,284,706	1	1	37
604,500	3,963,136	487,569	997,692	3,005,428	8,957,885	<sup>a</sup> 17,624,901	<sup>a</sup> 26,716,713	423,477	577,188	6,750,675	1	1	371
23,237	115,554	18,278	36,606	80,890	160,341	216,949	374,121	33,843	20,009	145,608	6	4	3713
17,205	94,260	13,255	26,274	65,792	158,058	247,165	405,403	10,182	15,669	131,140	1	2	3715
564,058	3,753,322	456,036	934,812	2,858,746	8,639,486	<sup>a</sup> 17,160,787	<sup>a</sup> 25,936,889	379,452	541,510	6,473,927	1	1	3717
692,593	4,943,566	399,346	821,843	2,412,719	6,956,618	<sup>a</sup> 6,483,908	<sup>a</sup> 13,373,665	226,360	765,482	6,924,338	1	1	372
305,435	2,205,508	172,942	351,726	1,023,524	3,046,923	2,953,275	<sup>a</sup> 6,000,080	71,816	377,383	3,399,163	1	1	3721
162,877	1,162,559	94,068	197,606	571,305	1,759,264	1,507,035	3,242,436	54,379	159,094	1,615,671	1	1	3722
10,526	70,436	5,535	12,221	34,290	87,543	60,618	157,395	3,871	15,505	112,301	1	1	3723
213,755	1,505,063	126,801	260,290	783,600	2,062,888	1,962,980	3,973,754	96,294	213,500	1,797,203	1	1	3729
136,886	829,349	114,447	227,605	646,729	1,057,812	<sup>a</sup> 877,034	<sup>a</sup> 1,937,812	49,500	144,561	1,071,822	1	1	373
114,215	728,708	95,730	187,625	569,244	1,919,666	701,187	<sup>a</sup> 1,621,204	31,648	119,147	913,687	1	1	3731
22,671	100,641	17,710	39,980	77,845	138,146	175,847	316,608	(17,852)	25,297	157,309	4	6	3732
34,580	224,892	24,881	47,208	145,747	323,021	<sup>a</sup> 524,933	<sup>a</sup> 882,912	11,297	39,591	319,662	1	1	374
11,955	80,080	8,183	16,051	49,067	138,804	189,562	343,992	2,755	15,282	152,086	1	1	3741
22,625	144,812	16,698	31,157	96,680	184,217	333,371	538,920	8,542	24,309	167,576	1	1	3742
8,232	38,249	6,630	12,774	26,920	59,166	93,640	153,065	2,580	7,578	52,125	1	4	3751
26,553	116,096	22,052	39,309	82,348	175,747	<sup>a</sup> 399,682	<sup>a</sup> 575,281	(4,769)	23,478	165,898	6	4	379
20,703	88,705	17,457	29,814	64,807	135,111	328,890	464,133	(3,707)	18,717	127,683	7	5	3791
5,850	27,391	4,595	9,495	17,541	40,636	70,792	111,148	1,062	4,761	38,215	4	7	3799
343,231	2,102,528	220,201	439,083	1,110,626	3,891,848	<sup>a</sup> 2,308,927	<sup>a</sup> 6,189,081	188,100	296,558	2,906,390	1	1	38
95,029	647,694	56,466	112,729	318,267	1,005,583	639,937	1,679,262	36,607	67,456	606,530	2	2	3811
88,318	499,014	55,854	112,518	270,397	915,585	<sup>a</sup> 492,644	<sup>a</sup> 1,383,466	38,462	75,562	716,095	2	1	382
60,067	340,262	37,047	73,904	176,707	591,017	377,789	963,369	25,069	50,049	457,126	3	2	3821
28,251	158,752	18,807	38,614	93,690	324,568	114,855	418,097	13,393	25,513	258,969	1	1	3822
7,881	51,214	5,428	10,684	29,129	65,731	37,856	103,363	8,556	7,184	60,387	1	1	3831
46,996	264,662	31,237	62,537	134,690	540,363	<sup>a</sup> 347,854	<sup>a</sup> 862,106	(36,487)	41,714	414,367	3	2	384
11,741	61,637	8,893	17,576	38,791	106,966	74,010	181,514	4,780	10,293	85,153	7	7	3841
27,868	164,968	17,118	34,913	73,677	357,119	225,579	556,545	(30,421)	24,179	257,640	3	3	3842
7,387	38,057	5,226	10,048	22,222	76,278	48,265	124,047	1,286	7,242	71,574	1	2	3843
19,272	83,677	15,988	31,725	61,104	147,618	72,226	217,790	8,974	18,223	136,696	4	3	3851
61,226	427,821	37,020	78,959	217,795	987,015	521,531	1,517,764	49,250	60,262	788,759	1	1	3861
24,509	128,446	18,208	35,931	79,244	229,933	<sup>a</sup> 196,879	<sup>a</sup> 425,330	(9,764)	26,157	183,556	1	1	387
22,429	118,088	16,396	32,603	71,169	219,657	187,057	403,081	(9,365)	23,505	165,158	1	1	3871
2,080	10,358	1,812	3,328	8,075	10,296	9,822	22,249	(12)	2,652	18,398	3	5	3872
558,842	2,908,724	398,252	779,716	1,674,416	5,079,551	<sup>a</sup> 4,545,373	<sup>a</sup> 9,601,883	172,592	571,620	4,755,290	1	1	39
43,221	207,283	33,660	68,492	142,226	383,016	<sup>a</sup> 376,719	<sup>a</sup> 756,487	6,343	42,033	324,346	2	2	391
21,384	106,495	15,753	33,392	67,824	189,561	198,019	386,492	2,384	21,196	166,579	2	2	3911
5,621	23,905	4,399	8,667	15,979	43,355	45,092	88,837	(1,301)	5,101	33,434	1	4	3912
(2,115)	(8,903)	(1,877)	(3,352)	(6,444)	(19,869)	(30,887)	(48,284)	(12)	1,904	14,605	3	18	3913
14,101	67,980	11,631	23,081	51,979	130,231	102,721	232,874	2,178	13,852	109,728	5	4	3914
22,054	107,400	17,094	33,481	71,986	157,925	186,038	340,866	4,201	17,450	131,703	1	2	3931
109,657	416,397	91,687	169,290	286,181	909,567	<sup>a</sup> 849,632	<sup>a</sup> 1,772,017	34,738	98,704	711,798	3	3	394
50,395	183,266	41,370	78,156	126,003	411,339	336,063	736,507	14,863	42,972	288,863	2	3	3941
16,227	51,113	15,343	24,521	36,948	97,278	98,094	194,685	2,178	13,860	77,149	2	2	3942
4,321	19,888	3,668	8,113	15,442	31,250	36,726	67,354	2,547	4,708	31,727	1	2	3943
38,714	162,128	31,106	58,500	107,788	369,700	378,749	773,471	15,150	37,164	314,059	7	7	3949
28,902	132,802	20,973	41,664	78,381	270,974	<sup>a</sup> 232,428	<sup>a</sup> 504,640	(10,504)	29,131	236,997	2	2	395
10,174	44,434	7,782	15,222	27,082	96,692	70,020	169,642	(5,529)	11,179	90,197	2	4	3951
6,274	25,971	4,778	9,623	15,971	54,226	48,806	102,842	1,302	6,687	47,909	6	5	3952
6,031	29,635	4,144	8,581	18,067	49,615	24,587	73,920	1,521	5,447	39,940	4	4	3953
6,423	32,762	4,269	8,238	17,261	70,441	89,015	158,236	2,152	5,818	38,951	1	4	3955
51,883	194,849	43,272	82,671	133,648	359,710	<sup>a</sup> 312,622	<sup>a</sup> 671,788	8,773	56,274	338,324	3	2	396
21,904	79,682	18,190	34,733	51,519	132,198	124,102	253,183	1,541	25,286	138,043	6	4	3961
5,890	16,909	3,176	9,532	12,033	28,934	34,365	65,514	(12)	6,770	34,650	7	6	3962
5,644	20,081	4,868	9,842	15,111	37,511	32,097	71,558	686	6,462	37,967	6	4	3963
18,445	78,177	15,038	28,564	54,985	161,047	122,058	283,533	(6,119)	17,756	127,664	3	2	3964

## ANNUAL SURVEY OF MANUFACTURES

Table 1.--General Statistics for Industry Groups

Code	Industry group and industry	1962 <sup>1</sup>								
		All employees		Production workers			Value added by manufacture, adjusted <sup>a</sup> (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new <sup>4</sup> (\$1,000)
		Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Man-hours (1,000)	Wages (\$1,000)				
		A	B	C	D	E	F	G	H	I
39	Miscellaneous manufacturing <sup>5</sup> -- Continued									
398 399 190	Miscellaneous manufactures <sup>5</sup> .....	330,174	2,181,764	210,793	424,400	1,111,306	3,529,264	<sup>6</sup> 2,834,924	<sup>6</sup> 6,258,740	130,750
3981	Brooms and brushes.....	16,630	74,352	13,538	25,663	49,439	166,614	144,817	306,878	5,188
3982	Hard surface floor coverings.....	6,446	39,386	5,282	10,952	30,599	110,738	82,779	191,265	4,959
3983	Matches.....	4,804	21,568	4,111	7,984	17,279	38,776	25,127	63,458	3,243
3984	Candles.....	2,829	11,124	2,102	3,909	6,486	21,304	17,839	39,298	( <sup>12</sup> )
3987	Lamp shades <sup>10</sup> .....	4,413	14,611	3,965	7,825	12,205	18,449	16,474	35,145	(2,332)
3988	Morticians' goods <sup>10</sup> .....	16,994	82,103	13,619	29,310	54,773	150,881	128,434	280,323	(14,081)
3992	Furs, dressed and dyed.....	2,356	16,000	1,910	3,167	12,748	25,683	7,007	32,205	( <sup>12</sup> )
3993	Signs and advertising displays <sup>10</sup> .....	41,297	223,769	31,436	62,249	149,430	378,196	238,162	608,965	(9,357)
3995	Umbrellas, parasols and canes <sup>10</sup> .....	(2,555)	(9,820)	(2,232)	(4,232)	(7,339)	(14,362)	(17,078)	(31,046)	( <sup>12</sup> )
3999	Miscellaneous products, nec <sup>10</sup> .....	25,899	115,711	20,382	40,421	76,527	235,314	215,082	449,145	(6,966)
1900	Ordnance and accessories.....	205,951	1,573,320	112,226	228,688	694,483	2,368,947	<sup>6</sup> 1,942,125	<sup>6</sup> 4,221,014	89,567

<sup>1</sup>The 1962 and 1961 data include revisions to the figures previously published in the report M62(AS)-1, "General Statistics for Industry Groups and Selected Industries."

<sup>2</sup>The report form requested employment figures for "production workers" for four selected pay periods (i.e., production workers in the mid-month pay periods in March, May, August, and November). For all other employees the mid-March figure was requested. Thus, the "all employees" figure is composed on an average of four monthly figures for the "production workers" plus the March figure for all other employees.

<sup>3</sup>Adjusted value added by manufacture represents value of products shipped (including resales of finished products produced by other manufacturing establishments) less cost of products, materials, supplies, fuel, electric energy, and contract work plus the net change in finished products and work-in-process inventories between the beginning and end of the year.

<sup>4</sup>Includes expenditures for plants under construction and not yet in operation.

<sup>5</sup>Inasmuch as the 1962 and 1961 statistics shown in this report were compiled from a probability sample, the results are subject to sampling variations. These possible variations from a canvass of the complete universe are measured by the standard error. The standard error columns

A/J (1962 estimated all employees), and F/O (1962 estimated value added, adjusted) indicate the range of differences that can be expected between the estimated relatives of change based on the sample and the relatives of change that would be derived from a complete canvass. While standard errors are not shown for the estimated 1962 absolute totals for these statistics, they may be approximated as follows:

(1) "1962 Value added by manufacture, adjusted"

Using the procedure outlined in Chapter II, table 1 (footnote 6) of the 1961 Annual Survey of Manufactures Volume, compute the standard error of the estimated total for "1961 Value added by manufacture, adjusted." Using this figure and the 1962 figure from the column F/O, above, add the larger number to one-half of the smaller number (or the first number to one-half of the second number, if the two are equal).

(2) "1962, All employees, number"

The standard errors of value added calculated above provide a rough approximation to the standard errors of employment since these two figures are very closely related. If more precise results are desired, the procedure outlined in Chapter II, table 1 (footnote 6) of the 1961 Annual Survey of Manufactures Volume should be used to secure the standard error of the estimated total for "1961, All employees, number." Using the same procedure as in paragraph (1) above, this 1961 figure may then be combined with the 1962 figure from the column headed A/J to derive a standard error for the estimated 1962 total.

The estimates will differ from those that would be obtained from a complete canvass by less than:

- (i) The percentage shown: approximately 2 times out of 3.
- (ii) Twice the percentage shown: approximately 19 times out of 20.
- (iii) Three times the percentage shown: almost always.

<sup>6</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) and a few individual industries (4-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For more information, see Introduction, Section 12.