TELEPHONES: 1937

Chapter I.—INTRODUCTION

General description.—The census of telephones has been taken quinquennially since 1902, but statistics of telephones were compiled and published in connection with the decennial censuses of 1880 and 1890. This report presents the statistics for 1937, with comparative figures for earlier years. Preliminary summary statistics were published in the form of a press announcement under date of February 27, 1939, followed by supplementary press announcements dated March 24 and April 13, 1939.

Each census has covered the public telephone systems or lines operated within the United States, exclusive of outlying possessions, during all or any part of the census year. Reports have not been required from certain private lines, such as those used exclusively by railroads for dispatching and operating trains and those connecting branches or departments of manufacturing or mercantile establishments, hotels, mines, lumber camps, etc.; nor were telephones operated by the Federal, State, or municipal governments included in the canvass. Data have been included, however, for 1932 and 1937 for a number of small systems and lines which were built by townships and small municipalities as a means of fire protection, for which patrons pay a service charge. Data for a number of Federal Forest Service lines in Western States, similarly operated, are also included.

Because of the difficulty in obtaining reports from small lines, those having fewer than 5 telephones per line were not required to submit reports for the 1937 census. Aside from the number of lines, the data for these small lines account only for a negligible portion of the totals for the industry. From the reports submitted by the operating companies supplying switchboard service to connecting lines, it was found that there were 11,759 lines, with 29,201 telephones, in this group having fewer than 5 telephones per line in 1937.

Collection of the data.—In collecting the data for the telephone census two schedules have been employed—a short form for connecting lines requiring only a brief report, and a larger report for operating companies which requires more detailed information. From the short form the only substantially accurate information obtained prior to 1917 was that in regard to mileage of wire and number of telephones in use. At the censuses for 1917 and 1922, however, this short form was lengthened so as to obtain data on the number of systems operating switchboards, number of calls originating with the system reporting, number of employees, male and female, salaries and wages, gross receipts, total assessments levied by mutual companies, and amount of investment. In addition, data on the number of central offices (switchboards) and the number of telephones located in homes (residence telephones) were called for at the 1932 and 1927 censuses. The larger form required, in addition to these items, detailed information in regard to equipment, traffic, and revenues.

Period covered.—Statistics for income and traffic relate to calendar years, or to the fiscal years of the companies; equipment items are as of December 31, or the last day of the fiscal year. The number of employees are shown as of June 30 and December 31, for 1937; June 30 for 1932, 1927 (except for the Bell system), and 1922; September 29 for 1917; September 16 for 1912; but for 1907 and 1902 the average number for the year was used. The Bell system reported the average number for 1932 and 1927. In all tables for 1937 where the date of employment is not given, the number of employees refers to those reported as of June 30.

Terms used.—So far as practicable, a report was obtained for each system or line operated under separate ownership. The terms "system" and "line" are sometimes used synonymously, but in general the former is employed with reference to the aggregations of lines operated by the larger companies, whereas the latter is more commonly used to denote the small farmer or rural lines.

Companies supplying switchboard service are referred to as operating companies. In some cases they own the equipment used by their patrons; in other cases, only switching service is provided for connecting lines, that is, lines owned independently of the operating company; or the switchboard company may provide switching service for both company lines and connecting lines.

Several inquiries that related only to mutual and cooperative telephone systems were included in the schedule at the request of the Farm Credit Administration, which was engaged in making a survey of all types of farmers' cooperative and mutual organizations during 1937. By this arrangement it was possible to avoid the duplication in effort and expenditure which would have been involved by the two Federal agencies canvassing the same organizations at the same time. Data thus collected and compiled from these inquiries are presented in tables 6 and 7. The statistics shown in these two tables represent totals of the companies reporting. For example, in table 6 under the section "telephones on farms," the figure of 333,153 telephones for the "50 percent and over" group is not the actual number of telephones on farms, but is the total number of telephones owned by mutual and cooperative switchboard companies which reported that 50 percent or more of the telephones on their lines were located on farms.

In the count of systems and lines the companies of the Bell system, operating in every State, were assigned to the States in which their operating headquarters were located; and other systems operating in more than one State were also assigned in the same way.

TABLE 1.—SUMMARY—ALL SYSTEMS AND LINES: 1937

ITEM	All systems and lines [1]	Bell system	ALL OTHER SYSTEMS AND LINES: Reporting annual incomes of $10,000 or more	ALL OTHER SYSTEMS AND LINES: Reporting annual incomes of less than $10,000 [1]
Number of systems and lines	50, 560	26	820	49, 714
Miles of single wire, total	90, 831, 421	81, 578, 393	7, 992, 642	1, 260, 386
In cable	83, 457, 378	76, 995, 511	6, 382, 672	79, 195
Not in cable	7, 374, 043	4, 582, 882	1, 609, 970	[2] 1, 181, 191
Central offices, total	18, 967	6, 945	5, 594	6, 428
Dial (automatic) system	1, 847	1, 192	607	48
Other types	17, 120	5, 753	4, 987	6, 380
Telephones, total	19, 453, 401	15, 331, 983	2, 959, 201	1, 162, 217
Served by:				
Dial (automatic) system	8, 485, 899	7, 633, 278	847, 002	5, 619
Other types	10, 967, 502	7, 698, 705	2, 112, 199	[3] 1, 156, 598
Residence	12, 377, 627	9, 292, 917	2, 032, 948	1, 051, 762
Business	7, 075, 774	6, 039, 066	926, 253	110, 455
Calls originating with systems reporting, total	33, 618, 333, 461	27, 666, 718, 656	5, 265, 405, 353	686, 209, 452
Local	32, 612, 715, 983	26, 840, 953, 392	5, 110, 747, 260	661, 015, 331
Toll and long distance	1, 005, 617, 478	825, 765, 264	154, 658, 093	25, 194, 121
Employees:				
At close of June, total	333, 162	275, 198	44, 752	13, 212
Male	129, 722	107, 559	16, 905	5, 258
Female	203, 440	167, 639	27, 847	7, 954
At close of year, total	325, 943	268, 482	44, 416	13, 045
Male	128, 478	106, 689	16, 642	5, 147
Female	197, 465	161, 793	27, 774	7, 898
Salaries and wages	$516, 640, 009	$463, 641, 529	$47, 053, 063	$5, 945, 417
Total operating revenues [4]	$1, 180, 028, 372	$1, 051, 379, 343	$116, 062, 253	$12, 586, 776
Local service [5]	799, 501, 915	703, 443, 830	86, 043, 602	10, 014, 483
Toll service	350, 760, 807	321, 502, 556	26, 806, 615	2, 451, 636
Operating taxes	148, 605, 287	135, 917, 191	12, 087, 872	600, 224
Investment in plant and equipment	5, 001, 803, 335	4, 389, 548, 887	551, 737, 125	60, 517, 323
PERCENT OF TOTAL				
Number of systems and lines	100.0	0.1	1.6	98.3
Miles of single wire, total	100.0	89.8	8.8	1.4
In cable	100.0	92.3	7.6	.1
Not in cable	100.0	62.1	21.9	16.0
Central offices, total	100.0	36.6	29.5	33.9
Dial (automatic) system	100.0	64.5	32.9	2.6
All other types	100.0	33.6	29.1	37.3
Telephones, total	100.0	78.8	15.2	6.0
Served by:				
Dial (automatic) system	100.0	89.9	10.0	.1
Other types	100.0	70.2	19.3	10.5
Residence	100.0	75.1	16.4	8.5
Business	100.0	85.3	13.1	1.6
Calls originating with systems reporting, total	100.0	82.3	15.7	2.0
Local	100.0	82.3	15.7	2.0
Toll and long distance	100.0	82.1	15.4	2.5
Employees:				
At close of June, total	100.0	82.6	13.4	4.0
Male	100.0	82.9	13.0	4.1
Female	100.0	82.4	13.7	3.9
At close of year, total	100.0	82.4	13.6	4.0
Male	100.0	83.0	13.0	4.0
Female	100.0	81.9	14.1	4.0
Salaries and wages	100.0	89.7	9.1	1.2
Total operating revenues	100.0	89.1	9.8	1.1
Local service	100.0	88.0	10.8	1.2
Toll service	100.0	91.7	7.6	.7
Operating taxes	100.0	91.5	8.1	.4
Investment in plant and equipment	100.0	87.8	11.0	1.2

[1] Includes data for connecting lines having fewer than 5 telephones per line, as follows: 11,759 lines; 29,201 telephones; and estimated figures for other items as follows: 44,249 miles of single wire; 27,694 residence telephones; 1,507 business telephones; and $1,599,615 investment in equipment.

[2] Distribution of miles of single wire as between "In cable," and "Not in cable" not called for on schedule used for connecting lines, therefore, all wire for connecting lines treated as "Not in cable."

[3] Distribution of telephones as between those served by dial system and other types not called for on schedule used for connecting lines, therefore, all telephones for connecting lines have been treated as served by other type central offices.

[4] Includes $29,765,650 miscellaneous operating revenues.

[5] Includes $1,073,653 assessments of mutual operating companies; and $704,587 receipts and assessments of connecting lines.

TABLE 2.—SUMMARY—OPERATING COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES: 1937

ITEM	Total	Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000
OPERATING COMPANIES			
Number of companies	6,694	846	5,848
Miles of single wire, total	90,323,459	89,571,035	752,424
In cable	83,457,378	83,378,183	79,195
Not in cable	6,866,081	6,192,852	673,229
Central offices, total	18,967	12,539	6,428
Dial (automatic) system	1,847	1,799	48
Other types	17,120	10,740	6,380
Telephones, total	19,029,813	18,291,184	738,629
Served by:			
Dial (automatic) system	8,485,899	8,480,280	5,619
Other types	10,543,914	9,810,904	733,010
Residence	11,966,287	11,325,865	640,422
Business	7,063,526	6,965,319	98,207
Calls originating with systems reporting, total	33,618,333,461	32,932,124,009	686,209,452
Local	32,612,715,983	31,951,700,652	661,015,331
Toll and long distance	1,005,617,478	980,423,357	25,194,121
Employees:			
At close of June, total	333,162	319,950	13,212
Male	129,722	124,464	5,258
Female	203,440	195,486	7,954
At close of year, total	325,943	312,898	13,045
Male	128,478	123,331	5,147
Female	197,465	189,567	7,898
Salaries and wages	$516,640,009	$510,694,592	$5,945,417
Total operating revenues [1]	$1,179,323,785	$1,167,441,596	$11,882,189
Local service [2]	798,797,328	789,487,432	9,309,896
Toll service	350,760,807	348,309,171	2,451,636
Operating taxes, total	148,605,287	148,005,063	600,224
Federal (U. S. Government)	43,505,829	43,371,714	134,115
Other (State, county, etc.)	105,099,458	104,633,349	466,109
Investment in plant and equipment	4,981,357,333	4,941,286,012	40,071,321
Interest income	4,520,084	4,501,081	19,003
Interest paid on funded debt	42,387,546	42,305,976	81,570
CONNECTING LINES AND SYSTEMS [3]			
Number of systems and lines	43,866	----------	----------
Miles of single wire	507,962	----------	----------
Number of telephones, total	423,588	----------	----------
Residence	411,340	----------	----------
Business	12,248	----------	----------
Total receipts [4]	$704,587	----------	----------
Investment in equipment	$20,446,002	----------	----------

[1] Includes miscellaneous operating revenues.
[2] Includes assessments of mutual operating companies.
[3] Includes data for connecting lines having fewer than 5 telephones per line.
[4] Includes assessments of mutual connecting lines.

TABLE 3.—NUMBER OF SYSTEMS AND LINES, WIRE MILEAGE, AND NUMBER OF CENTRAL OFFICES, THE BELL SYSTEM AND ALL OTHER SYSTEMS AND LINES, BY DIVISIONS AND STATES: 1937

Division and State	Systems and lines (number) [1]					Miles of single wire					Central offices (number)			
	Total [1]	Operating companies			Connecting lines [2]	Total [3]	Operating companies			Connecting lines [3]	Total	Operating companies		
		Bell system	All other operating companies				Bell system	All other operating companies				Bell system	All other operating companies	
			Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000				Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000				Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000
United States	38,801	26	820	5,848	32,107	90,787,172	81,578,393	7,992,642	752,424	463,713	18,967	6,945	5,594	6,428
GEOGRAPHIC DIVISIONS:														
New England	213	1	32	103	77	7,777,976	6,014,153	1,746,427	15,596	1,800	922	597	205	120
Middle Atlantic	1,477	4	117	278	1,078	27,714,601	26,493,480	1,160,158	43,375	17,588	2,032	1,171	538	323
East North Central	5,993	5	251	1,354	4,383	21,650,970	18,841,953	2,519,979	227,213	61,825	4,215	1,018	1,707	1,490
West North Central	15,309	5	193	1,987	13,124	7,794,619	6,556,073	783,716	263,000	191,830	4,493	983	1,361	2,149
South Atlantic	2,103	6	73	419	1,605	6,674,717	6,067,362	540,369	45,497	21,489	1,706	681	516	509
East South Central	3,376	1	22	511	2,842	2,778,524	2,383,768	321,638	47,781	25,337	1,275	545	195	535
West South Central	5,225	------	61	743	4,421	5,397,748	4,945,914	332,729	64,274	54,831	2,178	669	694	815
Mountain	1,422	2	18	237	1,165	1,796,089	1,701,990	45,644	20,643	27,812	852	517	84	251
Pacific	3,683	2	53	216	3,412	9,201,928	8,573,700	541,982	25,045	61,201	1,294	764	294	236
NEW ENGLAND:														
Maine	130	------	12	63	55	513,660	477,933	25,520	9,106	1,101	239	115	55	69
New Hampshire	27	------	4	16	7	293,852	288,742	2,703	2,167	240	131	105	9	17
Vermont	41	------	10	19	12	159,203	137,342	18,086	3,597	178	133	67	37	29
Massachusetts	9	1	1	4	3	4,162,775	4,157,848	3,997	649	281	291	281	6	4
Rhode Island	1	------	1	------	------	608,496	597,522	10,974	------	------	32	28	4	------
Connecticut	5	------	4	1	------	2,039,990	354,766	1,685,147	77	------	96	1	94	1
MIDDLE ATLANTIC:														
New York	449	2	59	125	263	15,365,969	14,748,708	595,978	17,632	3,651	946	614	195	137
New Jersey	17	1	5	2	9	4,554,521	4,517,166	34,887	2,404	64	218	190	23	5
Pennsylvania	1,011	1	53	151	806	7,794,111	7,227,606	529,293	23,339	13,873	868	367	320	181

See footnotes at end of table.

TABLE 3.—NUMBER OF SYSTEMS AND LINES, WIRE MILEAGE, AND NUMBER OF CENTRAL OFFICES, THE BELL SYSTEM AND ALL OTHER SYSTEMS AND LINES, BY DIVISIONS AND STATES, 1937—Continued

Division and State	Systems and lines (number) [1]					Miles of single wire					Central offices (number)			
	Total [2]	Operating companies			Connecting lines [2]	Total [3]	Operating companies			Connecting lines [3]	Total	Operating companies		
		Bell system	All other operating companies				Bell system	All other operating companies				Bell system	All other operating companies	
			Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000				Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000				Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000
East North Central:														
Ohio	670	1	74	211	384	5,688,439	4,381,205	1,267,303	36,565	3,366	926	218	471	237
Indiana	1,025	1	55	343	626	2,286,516	1,752,247	482,015	46,708	5,546	796	106	326	364
Illinois	2,390	1	61	393	1,935	7,485,744	7,005,189	405,312	57,717	17,526	1,191	289	472	430
Michigan	1,116	1	13	174	928	4,246,680	4,032,885	170,998	27,147	15,650	637	294	163	180
Wisconsin	792	1	48	233	510	1,943,591	1,670,427	194,351	59,076	19,737	665	111	275	279
West North Central:														
Minnesota	2,024	1	51	316	1,656	1,680,935	1,465,000	118,817	54,050	43,068	690	175	171	344
Iowa	3,420	------	51	493	2,876	1,313,255	1,081,232	140,280	59,993	31,750	970	167	286	517
Missouri	4,544	1	27	449	4,067	2,683,699	2,453,137	149,070	45,196	36,296	917	119	320	478
North Dakota	766	------	10	134	622	175,277	127,126	18,591	14,061	15,499	347	115	69	163
South Dakota	615	1	5	91	518	188,286	149,124	11,568	13,969	13,625	289	132	54	103
Nebraska	1,384	1	24	148	1,211	727,487	408,106	268,617	25,502	25,262	525	113	256	156
Kansas	2,556	1	25	356	2,174	1,025,680	872,348	76,773	50,229	26,330	755	162	205	388
South Atlantic:														
Delaware	9	1	------	------	8	245,518	245,441	------	------	77	24	24	------	------
Maryland	71	1	1	5	64	1,197,769	1,195,825	617	452	875	146	140	1	5
Dist. of Columbia	1	1	------	------	------	840,674	840,674	------	------	------	16	16	------	------
Virginia	460	1	12	95	352	1,028,179	942,810	68,514	11,537	5,318	311	92	99	120
West Virginia	312	1	7	99	205	462,646	421,908	26,221	11,889	2,628	295	99	55	141
North Carolina	600	------	20	62	518	772,503	588,023	171,534	6,454	6,492	297	60	166	71
South Carolina	215	------	7	43	165	335,114	306,832	21,188	4,712	2,382	145	59	41	45
Georgia	401	1	16	100	284	888,121	846,020	31,243	7,470	3,388	311	130	71	110
Florida	34	------	10	15	9	904,193	679,829	221,052	2,983	329	161	61	83	17

East South Central:														
Kentucky	1,315	1	7	170	1,137	951,738	652,252	274,881	14,986	9,619	419	153	88	178
Tennessee	1,282	------	3	197	1,082	922,755	854,833	36,171	22,388	9,363	401	165	34	202
Alabama	387	------	10	99	278	590,061	568,821	9,787	8,380	3,073	234	86	40	108
Mississippi	392	------	2	45	345	313,970	307,862	799	2,027	3,282	221	141	33	47
West South Central:														
Arkansas	637	------	11	110	516	360,189	320,804	29,175	6,248	3,962	290	89	77	124
Louisiana	202	------	5	31	166	760,503	750,706	4,472	2,545	2,780	175	107	33	35
Oklahoma	1,934	------	7	237	1,690	1,249,638	1,180,733	31,492	18,315	19,098	540	155	124	261
Texas	2,452	------	38	365	2,049	3,027,418	2,693,671	267,590	37,166	28,991	1,173	318	460	395
Mountain:														
Montana	293	------	2	57	234	190,152	173,642	5,418	4,288	6,804	152	85	9	58
Idaho	379	------	2	33	344	146,380	117,043	20,574	2,782	5,981	127	63	29	35
Wyoming	175	------	1	32	142	89,402	79,422	1,777	2,923	5,280	84	41	5	38
Colorado	412	1	1	69	341	773,792	758,567	1,967	5,614	7,644	248	172	6	70
New Mexico	83	------	------	22	61	109,863	101,638	5,596	1,481	1,148*	73	43	5	25
Arizona	25	------	3	5	17	180,443	176,869	1,836	1,218	520	49	34	10	5
Utah	34	------	3	14	17	254,367	250,341	1,796	1,916	314	80	55	10	15
Nevada	21	1	6	5	9	51,690	44,468	6,680	421	121	39	24	10	5
Pacific:														
Washington	898	------	17	81	800	1,060,423	960,330	73,487	9,958	16,648	307	125	94	88
Oregon	1,065	------	7	82	976	638,654	578,946	37,049	7,811	14,848	243	91	61	91
California	1,720	2	29	53	1,636	7,502,851	7,034,424	431,446	7,276	29,705	744	548	139	57

[1] In the count of systems, the 26 Bell system companies (as well as all other systems and lines) have been assigned to the States in which their operating headquarters are located. The Bell system, however, operates in every State.

[2] Not including 11,759 connecting lines having fewer than 5 telephones per line.

[3] Does not include 44,249 miles of single wire (estimated) on connecting lines having fewer than 5 telephones per line.

TABLE 4.—NUMBER OF TELEPHONES, CLASSIFIED AS RESIDENCE AND BUSINESS, THE BELL SYSTEM AND ALL OTHER SYSTEMS AND LINES BY DIVISIONS AND STATES: 1937

DIVISION AND STATE	Total [1]	Residence	Business	BELL SYSTEM			ALL OTHER SYSTEMS AND LINES						
								Operating companies				Connecting lines [1]	
								Reporting annual incomes of $10,000 or more		Reporting annual incomes of less than $10,000			
				Total	Residence	Business	Total [1]	Residence	Business	Residence	Business	Residence	Business
United States	19,424,200	12,349,933	7,074,267	15,331,983	9,292,917	6,039,066	4,092,217	2,032,948	926,253	640,422	98,207	383,646	10,741
GEOGRAPHIC DIVISIONS:													
New England	1,606,031	1,049,947	556,084	1,222,418	794,045	428,373	383,613	243,263	126,387	11,344	1,276	1,295	48
Middle Atlantic	4,874,183	2,797,581	2,076,602	4,400,058	2,495,984	1,904,074	474,125	256,575	166,630	29,727	5,218	15,295	680
East North Central	4,608,168	3,070,408	1,537,760	3,323,290	2,077,380	1,246,510	1,284,278	745,057	268,199	189,794	22,099	58,177	952
West North Central	2,372,735	1,733,225	639,510	1,438,061	947,173	490,888	934,674	348,006	108,478	257,109	37,455	180,937	2,689
South Atlantic	1,554,122	928,433	625,689	1,275,712	749,765	525,947	278,410	126,661	91,517	35,569	7,197	16,438	1,028
East South Central	633,969	415,398	218,571	478,389	295,219	183,170	155,580	60,666	28,244	39,493	6,486	20,020	671
West South Central	1,194,910	751,687	443,223	953,157	572,403	380,754	241,753	91,220	49,739	48,629	10,798	39,435	1,932
Mountain	529,207	327,562	201,645	475,296	288,366	186,930	53,911	14,792	10,013	11,542	3,759	12,862	943
Pacific	2,050,875	275,692	775,183	1,765,002	1,072,582	692,420	285,873	146,708	77,046	17,215	3,919	39,187	1,798
NEW ENGLAND:													
Maine	128,288	89,974	38,314	107,341	73,497	33,844	20,947	8,966	3,613	6,626	832	885	25
New Hampshire	83,661	59,213	24,448	79,120	55,283	23,837	4,541	2,125	414	1,636	190	169	7
Vermont	57,367	41,329	16,038	44,162	30,517	13,645	13,205	8,109	2,166	2,537	225	166	2
Massachusetts	871,319	557,789	313,530	868,980	555,887	313,093	2,339	1,385	394	442	29	75	14
Rhode Island	117,239	74,394	42,845	114,794	72,864	41,930	2,445	1,530	915				
Connecticut	348,157	227,248	120,909	8,021	5,997	2,024	340,136	221,148	118,885	103			
MIDDLE ATLANTIC:													
New York	2,712,329	1,436,697	1,275,632	2,505,977	1,293,483	1,212,494	206,352	125,254	60,466	14,468	2,606	3,492	66
New Jersey	698,782	435,960	262,822	687,419	430,527	256,892	11,363	5,064	5,705	302	211	67	14
Pennsylvania	1,463,072	924,924	538,148	1,206,662	771,974	434,688	256,410	126,257	100,459	14,957	2,401	11,736	600
EAST NORTH CENTRAL:													
Ohio	1,146,985	779,150	367,835	695,430	451,204	244,226	451,555	294,142	120,530	29,686	3,025	4,118	54
Indiana	504,568	365,506	139,062	242,910	155,797	87,113	261,658	156,096	47,629	47,115	4,267	6,498	53
Illinois	1,668,777	1,063,863	604,914	1,369,388	825,533	543,855	299,389	158,862	54,746	57,128	6,116	22,340	197
Michigan	759,600	492,578	267,022	658,662	412,562	246,100	100,938	48,493	18,103	19,706	2,597	11,812	222
Wisconsin	528,238	369,311	158,927	357,500	232,284	125,216	170,738	87,459	27,191	36,159	6,094	13,409	426

West North Central:													
Minnesota	499,771	362,921	136,850	345,966	232,302	113,664	153,805	56,561	15,195	37,924	7,302	36,134	689
Iowa	514,460	402,223	112,237	259,247	180,279	78,968	255,213	95,646	23,152	82,394	9,642	43,904	475
Missouri	616,177	421,374	194,803	428,997	265,693	163,304	187,180	66,769	24,648	50,363	6,388	38,549	463
North Dakota	72,007	49,936	22,071	38,033	22,606	15,427	33,974	8,456	4,526	9,130	1,936	9,744	182
South Dakota	85,900	63,341	22,559	54,540	36,627	17,913	31,360	6,269	2,664	9,909	1,749	10,536	233
Nebraska	242,143	177,025	65,118	103,223	67,195	36,028	138,920	73,481	25,548	18,024	3,291	18,325	251
Kansas	342,277	256,405	85,872	208,055	142,471	65,584	134,222	40,824	12,745	49,365	7,147	23,745	396
South Atlantic:													
Delaware	41,225	24,999	16,226	41,162	24,946	16,216	63					53	10
Maryland	250,619	160,207	90,412	249,047	158,764	90,283	1,572	449	55	270	47	724	27
Dist. of Columbia	226,957	120,418	106,539	226,957	120,418	106,539							
Virginia	237,941	160,048	77,893	183,326	119,963	63,363	54,615	24,899	12,977	9,628	1,247	5,558	306
West Virginia	155,873	104,414	51,459	125,439	79,843	45,596	30,434	8,351	4,234	13,417	1,492	2,803	137
North Carolina	179,161	107,658	71,503	98,051	56,650	41,401	81,110	42,594	28,685	4,251	1,129	4,163	288
South Carolina	71,459	42,252	29,207	54,231	31,052	23,179	17,228	7,588	5,050	2,488	931	1,124	47
Georgia	194,291	118,209	76,082	169,979	102,402	67,577	24,312	8,913	6,313	4,970	2,026	1,924	166
Florida	196,596	90,228	106,368	127,520	55,727	71,793	69,076	33,867	34,203	545	325	89	47
East South Central:													
Kentucky	208,199	143,680	64,519	121,091	77,023	44,068	87,108	43,498	18,300	14,793	1,981	8,366	170
Tennessee	227,253	150,693	76,560	182,148	114,445	67,703	45,105	11,704	6,323	17,410	2,219	7,134	315
Alabama	125,292	76,723	48,569	107,292	64,065	43,227	18,000	4,738	3,298	5,929	1,947	1,991	97
Mississippi	73,225	44,302	28,923	67,858	39,686	28,172	5,367	726	323	1,361	339	2,529	89
West South Central:													
Arkansas	93,421	56,492	36,929	68,902	39,022	29,880	24,519	8,853	5,420	5,040	1,531	3,577	98
Louisiana	166,130	98,866	67,264	158,821	94,365	64,456	7,309	1,640	1,211	1,797	722	1,064	875
Oklahoma	280,937	185,199	95,738	220,260	136,554	83,706	60,677	13,909	7,533	17,052	4,146	17,684	353
Texas	654,422	411,130	243,292	505,174	302,462	202,712	149,248	66,818	35,575	24,740	4,399	17,110	606
Mountain:													
Montana	65,817	40,930	24,887	56,889	34,251	22,638	8,928	1,571	1,213	2,332	845	2,776	191
Idaho	61,927	40,889	21,038	44,903	28,271	16,632	17,024	6,135	3,781	2,446	519	4,037	106
Wyoming	32,320	20,295	12,025	28,016	16,973	11,043	4,304	710	422	1,166	433	1,446	127
Colorado	201,384	127,669	73,715	191,312	119,023	72,289	10,072	1,306	339	3,592	868	3,748	219
New Mexico	31,071	16,667	14,404	26,746	14,333	12,413	4,325	1,138	1,507	724	429	472	55
Arizona	47,405	25,492	21,913	45,411	24,652	20,759	1,994	549	566	164	366	127	222
Utah	71,589	45,279	26,310	69,103	43,221	25,882	2,486	829	183	1,028	231	201	14
Nevada	17,694	10,341	7,353	12,916	7,642	5,274	4,778	2,554	2,002	90	68	55	9
Pacific:													
Washington	314,953	203,462	111,491	250,224	153,177	97,047	64,729	31,657	12,373	7,237	1,687	11,391	384
Oregon	180,501	116,002	64,499	139,522	83,416	56,106	40,979	13,927	6,831	6,730	1,129	11,929	433
California	1,555,421	956,228	599,193	1,375,256	835,989	539,267	180,165	101,124	57,842	3,248	1,103	15,867	981

[1] Does not include 29,201 telephones on 11,759 connecting lines having fewer than 5 telephones per line. See table 1.

TABLE 5.—NUMBER OF ORIGINATING CALLS, THE BELL SYSTEM AND ALL OTHER OPERATING COMPANIES, BY DIVISIONS AND STATES: 1937

DIVISION AND STATE	Total	Bell system	ALL OTHER OPERATING COMPANIES		
			Total	Reporting annual incomes of $10,000 or more	Reporting annual incomes of less than $10,000
UNITED STATES	33, 618, 333, 461	27, 666, 718, 656	5, 951, 614, 805	5, 265, 405, 353	686, 209, 452
GEOGRAPHIC DIVISIONS:					
New England	2, 575, 790, 436	1, 962, 587, 076	613, 203, 360	603, 902, 618	9, 300, 742
Middle Atlantic	7, 273, 090, 050	6, 570, 480, 588	702, 609, 462	674, 535, 857	28, 073, 605
East North Central	7, 247, 918, 666	5, 314, 947, 972	1, 932, 970, 694	1, 742, 951, 853	190, 018, 841
West North Central	4, 106, 176, 942	3, 023, 631, 576	1, 082, 545, 366	799, 481, 372	283, 063, 994
South Atlantic	3, 160, 557, 459	2, 618, 890, 752	541, 666, 707	504, 086, 067	37, 580, 640
East South Central	1, 630, 047, 081	1, 393, 777, 188	236, 269, 893	194, 612, 466	41, 657, 427
West South Central	3, 091, 086, 499	2, 739, 069, 228	352, 017, 271	290, 542, 596	61, 474, 675
Mountain	968, 170, 806	904, 483, 680	63, 687, 126	47, 906, 690	15, 780, 436
Pacific	3, 565, 495, 522	3, 138, 850, 596	426, 644, 926	407, 385, 834	19, 259, 092
NEW ENGLAND:					
Maine	201, 848, 321	185, 344, 560	16, 503, 761	11, 849, 500	4, 654, 261
New Hampshire	120, 808, 598	115, 196, 616	5, 611, 982	3, 806, 084	1, 805, 898
Vermont	84, 971, 337	70, 600, 812	14, 370, 525	11, 864, 957	2, 505, 568
Massachusetts	1, 406, 759, 384	1, 403, 857, 704	2, 901, 680	2, 636, 665	265, 015
Rhode Island	179, 975, 368	176, 003, 148	3, 972, 220	3, 972, 220	
Connecticut	581, 427, 428	11, 584, 236	569, 843, 192	569, 773, 192	70, 000
MIDDLE ATLANTIC:					
New York	4, 226, 700, 511	3, 935, 407, 356	291, 293, 155	277, 207, 939	14, 085, 216
New Jersey	938, 471, 510	927, 443, 424	11, 028, 086	10, 678, 086	350, 000
Pennsylvania	2, 107, 918, 029	1, 707, 629, 808	400, 288, 221	386, 649, 832	13, 638, 389
EAST NORTH CENTRAL:					
Ohio	1, 986, 770, 795	1, 197, 112, 152	789, 658, 643	755, 349, 988	34, 308, 655
Indiana	892, 809, 837	476, 906, 412	415, 903, 425	369, 288, 868	46, 614, 557
Illinois	2, 388, 330, 556	1, 980, 732, 060	407, 598, 496	352, 563, 102	55, 035, 394
Michigan	1, 196, 028, 745	1, 083, 483, 372	112, 545, 373	94, 938, 624	17, 606, 749
Wisconsin	783, 978, 733	576, 713, 976	207, 264, 757	170, 811, 271	36, 453, 486
WEST NORTH CENTRAL:					
Minnesota	890, 071, 798	734, 617, 692	155, 454, 106	112, 811, 723	42, 642, 383
Iowa	792, 753, 162	517, 996, 464	274, 756, 698	184, 536, 209	90, 220, 489
Missouri	1, 207, 181, 550	964, 789, 368	242, 392, 182	186, 730, 579	55, 661, 603
North Dakota	111, 296, 522	76, 360, 716	34, 935, 806	26, 697, 409	8, 238, 397
South Dakota	118, 523, 613	93, 495, 492	25, 028, 121	15, 566, 235	9, 461, 886
Nebraska	417, 677, 955	208, 692, 744	208, 985, 211	188, 194, 687	20, 790, 524
Kansas	568, 672, 342	427, 679, 100	140, 993, 242	84, 944, 530	56, 048, 712
SOUTH ATLANTIC:					
Delaware	71, 171, 940	71, 171, 940			
Maryland	367, 909, 399	367, 077, 276	832, 123	635, 000	197, 123
Dist. of Columbia	305, 436, 036	305, 436, 036			
Virginia	509, 886, 545	430, 474, 224	79, 412, 321	69, 576, 320	9, 836, 001
West Virginia	291, 445, 847	256, 138, 596	35, 307, 251	25, 637, 650	9, 669, 601
North Carolina	491, 578, 178	271, 547, 820	220, 030, 358	214, 478, 097	5, 552, 261
South Carolina	187, 007, 637	154, 530, 660	32, 476, 977	28, 454, 483	4, 022, 494
Georgia	554, 539, 645	517, 159, 440	37, 380, 205	30, 228, 270	7, 151, 935
Florida	381, 582, 232	245, 354, 760	136, 227, 472	135, 076, 247	1, 151, 225
EAST SOUTH CENTRAL:					
Kentucky	429, 845, 470	291, 416, 484	138, 428, 986	124, 308, 002	14, 120, 984
Tennessee	652, 046, 547	586, 542, 156	65, 504, 391	47, 408, 873	18, 095, 518
Alabama	356, 745, 351	328, 151, 028	28, 594, 323	20, 879, 815	7, 714, 508
Mississippi	191, 409, 713	187, 667, 520	3, 742, 193	2, 015, 776	1, 726, 417
WEST SOUTH CENTRAL:					
Arkansas	209, 608, 432	174, 688, 788	34, 919, 644	28, 215, 354	6, 704, 290
Louisiana	495, 316, 556	487, 864, 632	7, 451, 924	4, 794, 774	2, 657, 150
Oklahoma	656, 015, 138	590, 145, 384	65, 869, 754	41, 522, 084	24, 347, 670
Texas	1, 730, 146, 373	1, 486, 370, 424	243, 775, 949	216, 010, 384	27, 765, 565
MOUNTAIN:					
Montana	113, 874, 195	102, 990, 744	10, 883, 451	7, 864, 310	3, 019, 141
Idaho	115, 856, 292	91, 598, 604	24, 257, 688	20, 140, 712	4, 116, 976
Wyoming	59, 497, 526	54, 414, 816	5, 082, 710	2, 900, 178	2, 182, 532
Colorado	343, 780, 771	339, 129, 408	4, 651, 363	1, 775, 866	2, 875, 497
New Mexico	59, 682, 004	53, 054, 208	6, 627, 796	5, 498, 796	1, 129, 000
Arizona	92, 776, 647	90, 021, 084	2, 755, 563	2, 024, 244	731, 319
Utah	154, 547, 050	151, 376, 604	3, 170, 446	1, 538, 500	1, 631, 946
Nevada	28, 156, 321	21, 898, 212	6, 258, 109	6, 164, 084	94, 025
PACIFIC:					
Washington	603, 276, 369	506, 092, 320	97, 184, 049	87, 940, 604	9, 243, 445
Oregon	329, 763, 098	286, 338, 468	43, 424, 630	36, 680, 905	6, 743, 725
California	2, 632, 456, 055	2, 346, 459, 808	286, 036, 247	282, 764, 325	3, 271, 922

TABLE 6.—STATISTICS OF MUTUAL AND COOPERATIVE TELEPHONE COMPANIES OPERATING SWITCHBOARDS:[1] 1937

ITEM	Total	PERCENTAGE OF TELEPHONES ON FARMS			PERCENTAGE OF MEMBERS OF THE ASSOCIATIONS OR STOCKHOLDERS WHO ARE FARMERS					PERCENTAGE OF TELEPHONES USED BY MEMBERS OF THE ASSOCIATIONS OR STOCKHOLDERS		
		50 percent and over	Less than 50 percent	Not reported	90 percent and over	75 percent to 89 percent	50 percent to 74 percent	Less than 50 percent	Not reported	50 percent and over	Less than 50 percent	Not reported
Number of companies	2,620	2,220	127	273	1,180	526	385	227	302	2,137	199	284
Miles of single wire	346,697	293,360	28,989	24,348	118,990	79,096	72,618	46,086	29,907	270,548	49,998	26,151
Number of telephones	392,091	333,153	29,032	29,906	133,888	90,721	84,746	47,318	35,418	312,863	47,708	31,520
Operating revenues including assessments of mutual companies	$4,370,776	$3,573,545	$488,422	$308,809	$1,176,158	$932,530	$1,098,475	$768,886	$394,727	$3,243,988	$798,577	$328,211
Investment in plant and equipment, Dec. 31, 1937	$15,718,942	$13,133,652	$1,423,789	$1,161,501	$5,179,326	$3,534,334	$3,302,494	$2,205,361	$1,497,427	$12,194,865	$2,286,882	$1,237,195
Borrowed money [2]	$377,889	$263,677	$109,912	$4,300	$79,129	$62,338	$79,116	$136,656	$20,650	$239,875	$134,038	$3,976
Miles of grounded (one-wire) circuits	161,757	152,599	8,820	338	65,946	41,888	33,021	18,898	2,004	140,971	20,064	722

[1] See text, p. 2.
[2] Largest amount of borrowed money (mortgages, bonds, notes, etc.) owed by the companies or associations at any time during 1937.

TABLE 7.—STATISTICS OF MUTUAL AND COOPERATIVE CONNECTING TELEPHONE LINES AND SYSTEMS NOT OPERATING SWITCHBOARDS:[1] 1937

ITEM	Total	PERCENTAGE OF TELEPHONES ON FARMS		
		50 percent and over	Less than 50 percent	Not reported
Number of connecting lines	31,187	30,812	358	17
Miles of single wire	418,485	413,855	4,067	563
Number of telephones	370,967	366,658	3,813	496
Investment in equipment, Dec. 31, 1937	$15,692,199	$15,466,644	$204,065	$21,490

[1] See text, p. 2.

Chapter II.—DEVELOPMENT OF THE INDUSTRY

This chapter presents, for the United States as a whole and for geographic divisions and States, comparative statistics for 1937 and earlier census years. The growth of the industry is seen from the accompanying tables. The advance in 35 years is most strikingly shown from the increase in telephones per capita from 1 telephone to every 33 persons in 1902 to 1 telephone for approximately every 7 persons in 1937.

Growth during 35 years.—As already explained (see "Collection of the data," p. 1), the only substantially accurate information obtained prior to 1917 for the small systems and lines—those with incomes of less than $5,000—was that in regard to mileage of wire and number of telephones in use. The following statement shows, for the several census years from 1902 to 1937, inclusive, the total wire mileage; the total number of telephones reported by all systems and lines; and the number of telephones per 1,000 population:

CENSUS YEAR	Number of systems and lines	Miles of single wire	NUMBER OF TELEPHONES	
			Total	Per 1,000 population
1937 [1]	50,560	90,831,421	19,453,401	150
1932	[2] 55,378	87,677,586	17,424,406	139
1927	60,148	63,836,182	18,522,767	155
1922	57,253	37,265,958	14,347,395	130
1917	53,234	28,827,188	11,716,520	112
1912	32,233	20,248,326	8,729,592	92
1907	22,971	12,999,364	6,118,578	70
1902	9,136	4,900,451	2,371,044	30

[1] Includes data for connecting lines having fewer than 5 telephones per line, as follows: 11,759 lines; 44,249 miles of single wire (estimated); and 29,201 telephones.
[2] Includes 10,550 connecting lines for which separate reports were not secured; data for such lines, however, were included in reports of operating companies supplying switchboard service.

More detailed statistics for all systems and lines can be given, however, for the last 3 census years, as follows:

ITEM	1937 [1]	1932	1927	PERCENT INCREASE OR DECREASE (—)		
				1932–1937	1927–1932	1927–1937
Number of systems and lines	50,560	[2] 55,378	60,148	—8.7	—7.9	—15.9
Miles of single wire	90,831,421	87,677,586	63,836,182	3.6	37.3	42.3
Central offices	18,967	19,228	20,227	—1.4	—4.9	—6.2
Telephones, total	19,453,401	17,424,406	18,522,767	11.6	—5.9	5.0
Residence	12,377,627	11,089,946	12,128,617	11.6	—8.6	2.1
Business	7,075,774	6,334,460	6,394,150	11.7	—.9	10.7
Calls originating with systems reporting, total	33,618,333,461	30,048,165,513	31,614,172,621	11.9	—5.0	6.3
Local	32,612,715,983	(3)	30,527,181,724	--------	--------	6.8
Toll and long distance	1,005,617,478	(3)	1,086,990,897	--------	--------	—7.5
Employees, total	333,162	334,085	375,272	—.3	—11.0	—11.2
Male	129,722	128,677	131,802	.8	—2.4	—1.6
Female	203,440	205,408	243,470	—1.0	—15.6	—16.4
Salaries and wages	$516,640,009	$458,116,677	$486,597,070	12.8	—5.9	6.2
Total telephone operating revenues [4]	$1,180,028,372	$1,061,530,140	$1,023,573,567	11.2	3.7	15.3
Local service [5]	799,501,915	[6] 756,280,793	708,010,557	5.7	6.8	12.9
Toll service	350,760,807	281,047,593	294,625,256	24.8	—4.6	19.1
Investment in plant and equipment	5,001,803,335	4,791,902,525	3,548,874,716	4.4	35.0	40.9

Includes data for connecting lines having fewer than 5 telephones per line, as follows: 11,759 lines; 29,201 telephones; and estimated figures for other items as follows: 44,249 miles of single wire; 27,694 residence telephones; 1,507 business telephones, and $1,599,615 investment in equipment.
[2] Includes 10,550 connecting lines for which separate reports were not secured; data for such lines, however, were included in reports of operating companies supplying switchboard service.
[3] Not called for on schedule.
[4] Includes data for miscellaneous operating revenues as follows: For 1937, $29,765,650; for 1932, $24,201,754; and for 1927, $20,937,754.
[5] Includes data for assessments of mutual operating companies and receipts and assessments of connecting lines as follows: For 1937, $1,778,240; for 1932, $3,942,019; and for 1927, $6,629,157.
[6] Separate data for local service and toll service revenues were not called for on the schedule used for systems and lines with incomes of less than $10,000, therefore, all revenues, except miscellaneous, are included in local service.

TABLE 8.—SUMMARY—OPERATING COMPANIES REPORTING ANNUAL INCOMES OF $10,000 OR MORE, 1937, 1932, 1927, AND 1922; AND THOSE REPORTING $5,000 OR MORE, 1902 TO 1917

[For total number of systems and lines, wire mileage, and number of telephones, see table 1, p. 3]

ITEM	1937	1932	1927	1922	1917	1912	1907	1902 [1]	PERCENT INCREASE OR DECREASE (—)			
									1932–1937	1927–1932	1922–1927	1917–1922
Number of systems and lines	846	918	1,368	1,323	2,200	1,916	1,636	4,151	−7.8	−32.9	3.4	−39.9
Miles of single wire	89,571,035	86,484,493	62,277,246	35,502,983	27,298,026	19,019,391	11,921,960	4,850,486	3.6	38.9	75.4	30.1
Central offices	12,539	12,724	11,485	10,666	12,294	11,515	10,613	10,361	−1.5	10.8	7.7	−13.2
Telephones	18,291,184	16,284,231	16,712,495	12,295,234	9,953,710	7,326,748	4,906,693	2,315,297	12.3	−2.6	35.9	23.5
Calls originating with systems reporting	32,932,124,009	29,100,458,313	29,196,387,446	21,901,387,070	19,809,061,085	13,735,658,245	10,400,433,958	5,070,554,553	13.2	−.3	33.3	10.6
Employees	319,950	320,763	356,739	290,333	244,490	183,361	131,670	78,752	−.3	−10.1	22.9	18.8
Salaries and wages	$510,694,592	$451,477,844	$475,840,320	$341,537,822	$169,655,066	$96,040,541	$65,009,349	$36,255,621	13.1	−5.1	39.3	101.3
Operating revenues [2]	$1,167,441,596	$1,046,392,359	$996,911,752	$637,468,630	$363,831,921	$244,476,264	$176,104,302	$81,599,769	11.6	5.0	56.4	75.2
Investment in plant and equipment	$4,941,286,012	$4,734,705,708	$3,475,201,956	$2,129,773,760	$1,435,912,142	$1,081,433,227	$794,096,971	$398,967,723	4.4	36.2	63.2	48.3

[1] Figures do not include data for "Farmer or rural lines," but do include data for some systems with incomes of less than $5,000.
[2] Includes assessments of mutual companies and miscellaneous operating revenues.

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TABLE 9.—NUMBER OF SYSTEMS AND LINES, OPERATING COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES, BY DIVISIONS AND STATES: [1] 1937, 1932, AND 1927

DIVISION AND STATE	TOTAL			OPERATING COMPANIES						CONNECTING LINES		
				Reporting annual incomes of $10,000 or more			Reporting annual incomes of less than $10,000					
	1937 [2]	1932 [3]	1927	1937	1932	1927	1937	1932	1927	1937 [2]	1932 [3]	1927
UNITED STATES	38,801	44,828	60,148	846	918	1,368	5,848	5,822	7,841	32,107	38,088	50,939
GEOGRAPHIC DIVISIONS:												
New England	213	273	328	33	37	45	103	102	125	77	134	158
Middle Atlantic	1,477	1,777	2,485	121	141	164	278	297	430	1,078	1,339	1,891
East North Central	5,993	6,165	8,022	256	282	475	1,354	1,388	1,751	4,383	4,495	5,796
West North Central	15,309	14,357	19,127	198	220	332	1,987	1,888	2,430	13,124	12,249	16,365
South Atlantic	2,103	2,767	4,263	79	74	122	419	450	703	1,605	2,243	3,438
East South Central	3,376	4,310	6,487	23	20	36	511	543	743	2,842	3,747	5,708
West South Central	5,225	8,104	12,093	61	65	78	743	714	1,146	4,421	7,325	10,869
Mountain	1,422	2,202	2,268	20	22	29	237	219	267	1,165	1,961	1,972
Pacific	3,683	4,873	5,075	55	57	87	216	221	246	3,412	4,595	4,742
NEW ENGLAND:												
Maine	130	158	175	12	12	16	63	60	63	55	86	96
New Hampshire	27	42	55	4	4	7	16	19	24	7	19	24
Vermont	41	54	78	10	14	14	19	18	31	12	22	33
Massachusetts	9	13	14	2	2	3	4	4	6	3	7	5
Rhode Island	1	1	1	1	1	1	----	----	----	----	----	----
Connecticut	5	5	5	4	4	4	1	1	1	----	----	----
MIDDLE ATLANTIC:												
New York	449	590	922	61	70	76	125	134	188	263	386	658
New Jersey	17	26	74	6	6	13	2	1	9	9	19	52
Pennsylvania	1,011	1,161	1,489	54	65	75	151	162	233	806	934	1,181
EAST NORTH CENTRAL:												
Ohio	670	572	1,016	75	73	127	211	255	330	384	244	559
Indiana	1,025	1,082	1,431	56	65	103	343	344	440	626	673	888
Illinois	2,390	2,395	2,992	62	68	115	393	395	495	1,935	1,932	2,382
Michigan	1,116	1,302	1,510	14	16	34	174	172	222	928	1,114	1,254
Wisconsin	792	814	1,073	49	60	96	233	222	264	510	532	713

West North Central:												
Minnesota	2,024	1,804	2,318	52	62	67	316	298	366	1,656	1,444	1,885
Iowa	3,420	3,429	4,809	51	52	85	493	480	542	2,876	2,897	4,182
Missouri	4,544	3,734	5,060	28	32	58	449	388	608	4,067	3,314	4,394
North Dakota	766	753	946	10	8	15	134	130	174	622	615	757
South Dakota	615	477	745	6	9	15	91	88	107	518	380	623
Nebraska	1,384	1,395	1,778	25	26	39	148	148	193	1,211	1,221	1,546
Kansas	2,556	2,765	3,471	26	31	53	356	356	440	2,174	2,378	2,978
South Atlantic:												
Delaware	9	27	44	1					2	8	27	42
Maryland	71	111	175	2	2	2	5	5	11	64	104	162
District of Columbia	1	1	1	1	1	1						
Virginia	460	436	695	13	13	26	95	103	149	352	320	520
West Virginia	312	358	411	8	5	11	99	108	136	205	245	264
North Carolina	600	836	1,128	20	22	33	62	69	141	518	745	954
South Carolina	215	342	646	7	7	13	43	46	75	165	289	558
Georgia	401	605	1,089	17	15	24	100	101	159	284	489	906
Florida	34	51	74	10	9	12	15	18	30	9	24	32
East South Central:												
Kentucky	1,315	1,468	2,351	8	11	20	170	169	246	1,137	1,288	2,085
Tennessee	1,282	1,557	2,251	3	2	5	197	214	269	1,082	1,341	1,977
Alabama	387	606	874	10	6	10	99	117	147	278	483	717
Mississippi	392	679	1,011	2	1	1	45	43	81	345	635	929
West South Central:												
Arkansas	637	1,073	2,210	11	11	14	110	112	172	516	950	2,024
Louisiana	202	309	939	5	1	3	31	30	36	166	278	900
Oklahoma	1,934	2,224	3,115	7	11	15	237	219	326	1,690	1,994	2,774
Texas	2,452	4,498	5,829	38	42	46	365	353	612	2,049	4,103	5,171
Mountain:												
Montana	293	461	430	2	3	3	57	57	65	234	401	362
Idaho	379	360	436	2	3	3	33	29	33	344	328	400
Wyoming	175	354	321	1	1	1	32	27	30	142	326	290
Colorado	412	689	743	2	2	4	69	64	71	341	623	668
New Mexico	83	168	175				22	21	34	61	147	141
Arizona	25	54	51	3	3	4	5	6	8	17	45	39
Utah	34	64	60	3	3	6	14	12	20	17	49	34
Nevada	21	52	52	7	7	8	5	3	6	9	42	38
Pacific:												
Washington	898	1,064	1,194	17	17	25	81	83	93	800	964	1,076
Oregon	1,065	1,305	1,268	7	8	14	82	86	89	976	1,211	1,165
California	1,720	2,504	2,613	31	32	48	53	52	64	1,636	2,420	2,501

[1] Systems operating in more than 1 State have been assigned to the State in which their operating headquarters are located.
[2] Not including 11,759 connecting lines having fewer than 5 telephones per line.
[3] Excludes 10,550 connecting lines reported by operating companies supplying switchboard service.

TABLE 10.—MILES OF SINGLE WIRE, ALL SYSTEMS AND LINES, OPERATING WITH PERCENT INCREASE OR DECREASE, BY

	DIVISION AND STATE	TOTAL					OPERATING COMPANIES		
		1937 [1]	1932	1927	Percent increase or decrease (−)		Reporting annual incomes of $10,000 or more		
					1932–1937	1927–1932	1937	1932	1927
1	UNITED STATES	90,787,172	87,677,586	63,836,182	3.5	37.3	89,571,035	86,484,493	62,277,246
	GEOGRAPHIC DIVISIONS:								
2	New England	7,777,976	7,682,588	5,586,569	1.2	37.5	7,760,580	7,662,859	5,566,475
3	Middle Atlantic	27,714,601	27,399,025	19,992,689	1.2	37.0	27,653,638	27,336,095	19,918,626
4	E. North Central	21,650,970	21,574,370	15,223,410	.4	41.7	21,361,932	21,298,061	14,872,380
5	W. North Central	7,794,619	7,641,354	6,044,901	2.0	26.4	7,339,789	7,226,231	5,519,539
6	South Atlantic	6,674,717	5,760,130	4,244,852	15.9	35.7	6,607,731	5,689,617	4,137,014
7	E. South Central	2,778,524	2,587,978	2,001,125	7.4	29.3	2,705,406	2,514,187	1,886,545
8	W. South Central	5,397,748	5,028,077	3,619,976	7.4	38.9	5,278,643	4,907,291	3,409,117
9	Mountain	1,796,089	1,640,855	1,198,550	9.5	36.9	1,747,634	1,582,174	1,139,265
10	Pacific	9,201,928	8,363,209	5,924,110	10.0	41.2	9,115,682	8,267,978	5,828,285
	NEW ENGLAND:								
11	Maine	513,660	517,144	326,120	−.7	58.6	503,453	504,995	315,503
12	New Hampshire	293,852	288,990	211,448	1.7	36.7	291,445	286,468	208,679
13	Vermont	159,203	149,129	105,645	6.8	41.2	155,428	145,511	99,881
14	Massachusetts	4,162,775	4,099,247	3,165,833	1.5	29.5	4,161,845	4,097,900	3,164,957
15	Rhode Island	608,496	595,303	429,451	2.2	38.6	608,496	595,303	429,451
16	Connecticut	2,039,990	2,032,775	1,348,072	.4	50.8	2,039,913	2,032,682	1,348,004
	MIDDLE ATLANTIC:								
17	New York	15,365,969	15,385,557	11,592,418	−.1	32.7	15,344,686	15,364,082	11,564,627
18	New Jersey	4,554,521	4,382,769	3,012,459	3.9	45.5	4,552,053	4,380,481	3,010,591
19	Pennsylvania	7,794,111	7,630,699	5,387,812	2.1	41.6	7,756,899	7,591,532	5,343,408
	E. NORTH CENTRAL:								
20	Ohio	5,688,439	5,545,857	3,658,505	2.6	51.6	5,648,508	5,500,762	3,595,160
21	Indiana	2,286,516	2,223,608	1,558,005	2.8	42.7	2,234,262	2,177,326	1,489,194
22	Illinois	7,485,744	7,599,337	5,688,146	−1.5	33.6	7,410,501	7,528,375	5,596,426
23	Michigan	4,246,680	4,263,778	2,967,217	−.4	43.7	4,203,883	4,220,852	2,918,468
24	Wisconsin	1,943,591	1,941,790	1,351,537	.1	43.7	1,864,778	1,870,746	1,273,132
	W. NORTH CENTRAL:								
25	Minnesota	1,680,935	1,610,192	1,422,716	4.4	13.2	1,583,817	1,525,128	1,321,492
26	Iowa	1,313,255	1,310,798	960,226	.2	36.5	1,221,512	1,227,089	867,482
27	Missouri	2,683,699	2,620,741	1,988,764	2.4	31.8	2,602,207	2,551,753	1,885,418
28	North Dakota	175,277	161,225	140,923	8.7	14.4	145,717	130,177	103,143
29	South Dakota	188,286	177,521	154,601	6.1	14.8	160,692	156,316	124,771
30	Nebraska	727,487	736,632	606,425	−1.2	21.5	676,723	685,331	544,345
31	Kansas	1,025,680	1,024,245	771,246	.1	32.8	949,121	950,437	672,888
	SOUTH ATLANTIC:								
32	Delaware	245,518	210,300	118,539	16.7	77.4	245,441	209,956	118,093
33	Maryland	1,197,769	1,076,460	936,353	11.3	15.0	1,196,442	1,074,731	933,503
34	Dist. of Columbia	840,674	675,044	540,152	24.5	25.0	840,674	675,044	540,152
35	Virginia	1,028,179	876,581	615,286	17.3	42.5	1,011,324	859,992	591,769
36	West Virginia	462,646	445,781	349,899	3.8	27.4	448,129	426,555	329,401
37	North Carolina	772,503	706,829	392,455	9.3	80.1	759,557	694,909	369,763
38	South Carolina	335,114	290,599	171,678	15.3	69.3	328,020	284,312	158,673
39	Georgia	888,121	772,176	538,751	15.0	43.3	877,263	761,176	517,596
40	Florida	904,193	706,360	581,739	28.0	21.4	900,881	702,942	578,064
	E. SOUTH CENTRAL:								
41	Kentucky	951,738	863,293	722,120	10.2	19.5	927,133	840,053	681,738
42	Tennessee	922,755	850,951	642,096	8.4	32.5	891,004	819,172	597,626
43	Alabama	590,061	580,087	421,927	1.7	37.5	578,608	568,542	404,479
44	Mississippi	313,970	293,647	214,982	6.9	36.6	308,661	286,420	202,702
	W. SOUTH CENTRAL:								
45	Arkansas	360,189	366,944	318,868	−1.8	15.1	349,979	355,432	293,310
46	Louisiana	760,503	694,367	560,262	9.5	23.9	755,178	689,114	552,655
47	Oklahoma	1,249,638	1,173,051	655,102	6.5	79.1	1,212,225	1,138,748	602,174
48	Texas	3,027,418	2,793,715	2,085,744	8.4	33.9	2,961,261	2,723,997	1,960,978
	MOUNTAIN:								
49	Montana	190,152	181,485	135,536	4.8	33.9	179,060	168,834	123,600
50	Idaho	146,380	134,096	111,940	9.2	19.8	137,617	126,653	103,190
51	Wyoming	89,402	85,233	60,622	4.9	40.6	81,199	75,010	52,308
52	Colorado	773,792	717,589	559,873	7.8	28.2	760,534	698,919	541,413
53	New Mexico	109,863	84,722	48,765	29.7	73.7	107,234	81,467	43,812
54	Arizona	180,443	158,261	89,305	14.0	77.2	178,705	155,142	86,182
55	Utah	254,367	231,113	167,393	10.1	38.1	252,137	229,130	165,203
56	Nevada	51,690	48,356	25,116	6.9	92.5	51,148	47,019	23,557
	PACIFIC:								
57	Washington	1,060,423	1,029,949	739,138	3.0	39.3	1,033,817	1,002,282	710,709
58	Oregon	638,654	599,201	490,820	6.6	22.1	615,995	574,487	466,569
59	California	7,502,851	6,734,059	4,694,152	11.4	43.5	7,465,870	6,691,209	4,651,007

[1] Does not include 44,249 miles of single wire (estimated) on 11,759 connecting lines having fewer than 5 telephones per line.

[2] Percent not shown when increase is greater than 1,000.

COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES, DIVISIONS AND STATES: 1937, 1932, AND 1927

OPERATING COMPANIES—continued							CONNECTING LINES					
Percent increase or decrease (−)		Reporting annual incomes of less than $10,000			Percent increase or decrease (−)		1937 [1]	1932	1927	Percent increase or decrease (−)		
1932–1937	1927–1932	1937	1932	1927	1932–1937	1927–1932				1932–1937	1927–1932	
3.6	38.9	752,424	721,057	944,952	4.4	−23.7	463,713	472,036	613,984	−1.8	−23.1	1
1.3	37.7	15,596	16,508	17,690	−5.5	−6.7	1,800	3,221	2,404	−44.1	34.0	2
1.2	37.2	43,375	40,365	45,589	7.5	−11.5	17,588	22,565	28,474	−22.1	−20.8	3
.3	43.2	227,213	214,449	267,400	6.0	−19.8	61,825	61,860	83,630	−.1	−26.0	4
1.6	30.9	263,000	251,818	304,096	4.4	−17.2	191,830	163,305	221,266	17.5	−26.2	5
16.1	37.5	45,497	46,002	70,174	−1.1	−34.4	21,489	24,511	37,664	−12.3	−34.9	6
7.6	33.3	47,781	45,525	69,507	5.0	−34.5	25,337	28,266	45,073	−10.4	−37.3	7
7.6	43.9	64,274	57,378	120,099	12.0	−52.2	54,831	63,408	90,760	−13.5	−30.1	8
10.5	38.9	20,643	20,313	23,728	1.6	−14.4	27,812	38,368	35,557	−27.5	7.9	9
10.3	41.9	25,045	28,699	26,669	−12.7	7.6	61,201	66,532	69,156	−8.0	−3.8	10
−.3	60.1	9,106	10,488	9,165	−13.2	14.4	1,101	1,661	1,452	−33.7	14.4	11
1.7	37.3	2,167	2,217	2,431	−2.3	−8.8	240	305	338	−21.3	−9.8	12
6.8	45.7	3,597	3,083	5,215	16.7	−40.9	178	535	549	−66.7	−2.6	13
1.6	29.5	649	627	811	3.5	−22.7	281	720	65	−61.0	(2)	14
2.2	38.6											15
.4	50.8	77	93	68	−17.2	36.8						16
−.1	32.9	17,632	16,424	20,041	7.4	−18.0	3,651	5,051	7,750	−27.7	−34.8	17
3.9	45.5	2,404	2,160	1,393	11.3	55.1	64	128	475	−50.0	−73.1	18
2.2	42.1	23,339	21,781	24,155	7.2	−9.8	13,873	17,386	20,249	−20.2	−14.1	19
2.7	53.0	36,565	42,558	56,086	−14.1	−24.1	3,366	2,537	7,259	32.7	−65.1	20
2.6	46.2	46,708	41,405	61,840	12.8	−33.0	5,546	4,877	6,971	13.7	−30.0	21
−1.6	34.5	57,717	55,236	67,065	4.5	−17.6	17,526	15,726	24,655	11.4	−36.2	22
−.4	44.6	27,147	24,192	28,254	12.2	−14.4	15,650	18,734	20,495	−16.5	−8.6	23
−.3	46.9	59,076	51,058	54,155	15.7	−5.7	19,737	19,986	24,250	−1.2	−17.6	24
3.8	15.4	54,050	46,937	58,288	15.2	−19.5	43,068	38,127	42,936	13.0	−11.2	25
−.5	41.5	59,993	53,212	50,705	12.7	4.9	31,750	30,497	42,039	4.1	−27.5	26
2.0	35.3	45,196	45,472	67,471	−.6	−32.6	36,296	23,516	35,875	54.3	−34.5	27
11.9	26.2	14,061	16,515	18,099	−14.9	−8.8	15,499	14,533	19,681	6.6	−26.2	28
2.8	25.3	13,969	12,662	13,494	10.3	−6.2	13,625	8,543	16,336	59.5	−47.7	29
−1.3	25.9	25,502	27,453	31,840	−7.1	−13.8	25,262	23,848	30,240	5.9	−21.1	30
−.1	41.2	50,229	49,567	64,199	1.3	−22.8	26,330	24,241	34,159	8.6	−29.0	31
16.9	77.8			38		−100.0	77	344	408	−77.6	−15.7	32
11.3	15.1	452	460	996	−1.7	−53.8	875	1,269	1,854	−31.0	−31.6	33
24.5	25.0											34
17.6	45.3	11,537	11,303	16,247	2.1	−30.4	5,318	5,286	7,270	.6	−27.3	35
5.1	29.5	11,889	16,056	17,124	−26.0	−6.2	2,628	3,170	3,374	−17.1	−6.0	36
9.3	87.9	6,454	5,089	12,107	26.8	−58.0	6,492	6,831	10,585	−5.0	−35.5	37
15.4	79.2	4,712	3,600	7,827	30.9	−54.0	2,382	2,687	5,178	−11.4	−48.1	38
15.3	47.1	7,470	6,455	12,551	15.7	−48.6	3,388	4,545	8,604	−25.5	−47.2	39
28.2	21.6	2,983	3,039	3,284	−1.8	−7.5	329	379	391	−13.2	−3.1	40
10.4	23.2	14,986	13,876	23,744	8.0	−41.6	9,619	9,364	16,638	2.7	−43.7	41
8.8	37.1	22,388	22,442	30,596	−.2	−26.7	9,363	9,337	13,874	.3	−32.7	42
1.8	40.6	8,380	7,323	10,630	14.4	−31.1	3,073	4,222	6,818	−27.2	−38.1	43
7.8	41.3	2,027	1,884	4,537	7.6	−58.5	3,282	5,343	7,743	−38.6	−31.0	44
−1.5	21.2	6,248	5,818	12,826	7.4	−54.6	3,962	5,694	12,732	−30.4	−55.3	45
9.6	24.7	2,545	2,192	4,244	16.1	−48.4	2,780	3,061	3,363	−9.2	−9.0	46
6.5	89.1	18,315	15,662	23,756	16.9	−34.1	19,098	18,641	29,172	2.5	−36.1	47
8.7	38.9	37,166	33,706	79,273	10.3	−57.5	28,991	36,012	45,493	−19.5	−20.8	48
6.1	36.6	4,288	4,275	5,025	.3	−14.9	6,804	8,376	6,911	−18.8	21.2	49
8.7	22.7	2,782	2,521	2,961	10.4	−14.9	5,981	4,922	5,789	21.5	−15.0	50
8.3	43.4	2,923	2,478	2,139	18.0	15.8	5,280	7,745	6,175	−31.8	25.4	51
8.8	29.1	5,614	6,514	6,293	−13.8	3.5	7,644	12,156	12,167	−37.1	−.1	52
31.6	85.9	1,481	1,154	2,671	28.3	−56.8	1,148	2,101	2,282	−45.4	−7.9	53
15.2	80.0	1,218	1,491	2,201	−18.3	−32.3	520	1,628	922	−68.1	76.6	54
10.0	38.7	1,916	1,375	1,562	39.3	−12.0	314	608	628	−48.4	−3.2	55
8.8	99.6	421	505	876	−16.6	−42.4	121	832	683	−85.5	21.8	56
3.1	41.0	9,958	11,840	9,979	−15.9	18.6	16,648	15,827	18,450	5.2	−14.2	57
7.2	23.1	7,811	8,946	8,127	−12.7	10.1	14,848	15,768	16,124	−5.8	−2.2	58
11.6	43.9	7,276	7,913	8,563	−8.1	−7.6	29,705	34,937	34,582	−15.0	1.0	59

TABLE 11.—NUMBER OF TELEPHONES, ALL SYSTEMS AND LINES, OPERATING WITH PERCENT INCREASE OR DECREASE, BY

	DIVISION AND STATE	TOTAL					OPERATING COMPANIES		
		1937 [1]	1932	1927	Percent increase or decrease (—)		Reporting annual income of $10,000 or more		
					1932–1937	1927–1932	1937	1932	1927
1	UNITED STATES	19,424,200	17,424,406	18,522,767	11.5	—5.9	18,291,184	16,284,231	16,712,495
	GEOGRAPHIC DIVISIONS:								
2	New England	1,606,031	1,513,939	1,548,931	6.1	—2.3	1,592,068	1,498,010	1,527,779
3	Middle Atlantic	4,874,183	4,613,733	4,588,211	5.6	.6	4,823,263	4,555,298	4,488,761
4	East North Central	4,608,168	4,034,931	4,589,751	14.2	—12.1	4,337,146	3,765,622	4,161,039
5	West North Central	2,372,735	2,260,985	2,594,081	4.9	—12.8	1,894,545	1,805,413	1,908,505
6	South Atlantic	1,554,122	1,250,882	1,262,222	24.2	—.9	1,493,890	1,181,857	1,144,802
7	East South Central	633,969	547,440	644,270	15.8	—15.0	567,299	475,458	515,850
8	West South Central	1,194,910	1,002,389	1,149,357	19.2	—12.8	1,094,116	901,018	939,254
9	Mountain	529,207	446,492	456,198	18.5	—2.1	500,101	415,638	417,504
10	Pacific	2,050,875	1,753,615	1,689,746	17.0	3.8	1,988,756	1,685,917	1,609,001
	NEW ENGLAND:								
11	Maine	128,288	124,372	131,367	3.1	—5.3	119,920	115,040	120,565
12	New Hampshire	83,661	79,506	83,066	5.2	—4.3	81,659	76,646	79,466
13	Vermont	57,367	58,133	60,793	—1.3	—4.4	54,437	55,132	55,066
14	Massachusetts	871,319	832,740	867,888	4.6	—4.0	870,759	832,112	866,955
15	Rhode Island	117,239	110,671	114,944	5.9	—3.7	117,239	110,671	114,944
16	Connecticut	348,157	308,517	290,873	12.8	6.1	348,054	308,409	290,783
	MIDDLE ATLANTIC:								
17	New York	2,712,329	2,628,537	2,595,537	3.2	1.3	2,691,697	2,604,479	2,552,546
18	New Jersey	698,782	642,830	599,336	8.7	7.3	698,188	642,198	597,304
19	Pennsylvania	1,463,072	1,342,366	1,393,338	9.0	—3.7	1,433,378	1,308,621	1,338,911
	EAST NORTH CENTRAL:								
20	Ohio	1,146,985	978,394	1,122,036	17.2	—12.8	1,110,102	936,782	1,048,890
21	Indiana	504,568	444,996	552,249	13.4	—19.4	446,635	390,671	457,240
22	Illinois	1,668,777	1,507,222	1,685,690	10.7	—10.6	1,582,996	1,420,240	1,560,845
23	Michigan	759,600	621,958	711,315	22.1	—12.6	725,263	587,000	654,887
24	Wisconsin	528,238	482,361	518,461	9.5	—7.0	472,150	430,929	439,177
	W. NORTH CENTRAL:								
25	Minnesota	499,771	443,682	487,611	12.6	—9.0	417,722	367,199	382,815
26	Iowa	514,460	484,879	565,533	6.1	—14.3	378,045	355,468	392,127
27	Missouri	616,177	592,153	657,946	4.1	—10.0	520,414	507,332	503,660
28	North Dakota	72,007	69,241	86,198	4.0	—19.7	51,015	46,836	51,114
29	South Dakota	85,900	88,798	107,641	—3.3	—17.5	63,473	70,074	74,723
30	Nebraska	242,143	247,551	295,274	—2.2	—16.2	202,252	204,206	230,049
31	Kansas	342,277	334,681	393,878	2.3	—15.0	261,624	254,298	274,017
	SOUTH ATLANTIC:								
32	Delaware	41,225	32,537	28,901	26.7	12.6	41,162	32,257	28,396
33	Maryland	250,619	212,014	197,135	18.2	7.5	249,551	210,304	194,070
34	Dist. of Columbia	226,957	180,785	144,985	25.5	24.7	226,957	180,785	144,985
35	Virginia	237,941	196,956	183,698	20.8	7.2	221,202	178,984	155,453
36	West Virginia	155,873	134,150	146,677	16.2	—8.5	138,024	110,766	117,199
37	North Carolina	179,161	143,710	160,507	24.7	—10.5	169,330	133,813	138,889
38	South Carolina	71,459	57,215	64,616	24.9	—11.5	66,869	52,563	54,198
39	Georgia	194,291	151,264	173,410	28.4	—12.8	185,205	141,645	152,029
40	Florida	196,596	142,251	162,293	38.2	—12.3	195,590	140,740	159,583
	EAST SOUTH CENTRAL:								
41	Kentucky	208,199	191,236	222,735	8.9	—14.1	182,889	166,265	175,573
42	Tennessee	227,253	192,983	220,559	17.8	—12.5	200,175	163,916	174,540
43	Alabama	125,292	100,813	121,115	24.3	—16.8	115,328	88,416	99,240
44	Mississippi	73,225	62,408	79,861	17.3	—21.9	68,907	56,861	66,497
	WEST SOUTH CENTRAL:								
45	Arkansas	93,421	86,676	118,178	7.8	—26.7	83,175	75,241	89,556
46	Louisiana	166,130	132,735	137,610	25.2	—3.5	161,672	128,569	130,851
47	Oklahoma	280,937	241,453	278,912	16.4	—13.4	241,702	204,916	210,822
48	Texas	654,422	541,525	614,657	20.8	—11.9	607,567	492,292	508,025
	MOUNTAIN:								
49	Montana	65,817	55,361	59,238	18.9	—6.5	59,673	48,790	51,396
50	Idaho	61,927	49,201	54,822	25.9	—10.3	54,819	43,850	46,823
51	Wyoming	32,320	28,346	28,049	14.0	1.1	29,148	24,391	23,777
52	Colorado	201,384	179,063	183,250	12.5	—2.3	192,957	168,895	171,354
53	New Mexico	31,071	23,100	21,580	34.5	7.0	29,391	21,351	18,613
54	Arizona	47,405	36,064	33,194	31.4	8.6	46,526	35,032	32,140
55	Utah	71,589	60,082	63,106	19.2	—4.8	70,115	58,616	61,111
56	Nevada	17,694	15,275	12,959	15.8	17.9	17,472	14,713	12,290
	PACIFIC:								
57	Washington	314,953	276,530	299,109	13.9	—7.5	294,254	254,232	271,786
58	Oregon	180,501	166,639	185,171	8.3	—10.0	160,280	145,730	160,497
59	California	1,555,421	1,310,446	1,205,466	18.7	8.7	1,534,222	1,285,955	1,176,718

[1] Does not include data for 29,201 telephones on connecting lines having fewer than 5 telephones per line.

COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES, DIVISIONS AND STATES: 1937, 1932, AND 1927

OPERATING COMPANIES—Continued							CONNECTING LINES					
Percent increase or decrease (−)		Reporting annual income of less than $10,000			Percent increase or decrease (−)		1937 [1]	1932	1927	Percent increase or decrease (−)		
1932–1937	1927–1932	1937	1932	1927	1932–1937	1927–1932				1932–1937	1927–1932	
12.3	−2.6	738,629	753,420	1,220,225	−2.0	−38.3	394,387	386,755	590,047	2.0	−34.5	1
6.3	−1.9	12,620	13,784	18,365	−8.4	−24.9	1,343	2,145	2,787	−37.4	−23.0	2
5.9	1.5	34,945	38,196	64,657	−8.5	−40.9	15,975	20,239	34,793	−21.1	−41.8	3
15.2	−9.5	211,893	212,340	337,126	−.2	−37.0	59,129	56,969	91,586	3.8	−37.8	4
4.9	−5.4	294,564	295,873	441,104	−.4	−32.9	183,626	159,699	244,472	15.0	−34.7	5
26.4	3.2	42,766	49,300	86,981	−13.3	−43.3	17,466	19,725	30,439	−11.5	−35.2	6
19.3	−7.8	45,979	47,456	87,180	−3.1	−45.6	20,691	24,526	41,240	−15.6	−40.5	7
21.4	−4.1	59,427	57,543	135,454	3.3	−57.5	41,367	43,828	74,649	−5.6	−41.3	8
20.3	−.4	15,301	14,926	19,628	2.5	−24.0	13,805	15,928	19,066	−13.3	−16.5	9
18.0	4.8	21,134	24,002	29,730	−11.9	−19.3	40,985	43,696	51,015	−6.2	−14.3	10
4.2	−4.6	7,458	8,023	9,167	−7.0	−12.5	910	1,309	1,635	−30.5	−19.9	11
6.5	−3.5	1,826	2,573	3,281	−29.0	−21.6	176	287	319	−38.7	−10.0	12
−1.3	.1	2,762	2,618	5,028	5.5	−47.9	168	383	699	−56.1	−45.2	13
4.6	−4.0	471	462	799	1.9	−42.2	89	166	134	−46.4	−23.9	14
5.9	−3.7											15
12.9	6.1	103	108	90	−4.6	20.0						16
3.3	2.0	17,074	18,765	32,019	−9.0	−41.4	3,558	5,293	10,972	−32.8	−51.8	17
8.7	7.5	513	492	1,430	4.3	−65.6	81	140	602	−42.1	−76.7	18
9.5	−2.3	17,358	18,939	31,208	−8.3	−39.3	12,336	14,806	23,219	−16.7	−36.2	19
18.5	−10.7	32,711	38,589	64,691	−15.2	−40.3	4,172	3,023	8,455	38.0	−64.2	20
14.3	−14.6	51,382	48,326	85,599	6.3	−43.5	6,551	5,999	9,410	9.2	−36.2	21
11.5	−9.0	63,244	66,449	92,742	−4.8	−28.4	22,537	20,533	32,103	9.8	−36.0	22
23.6	−10.4	22,303	21,544	36,955	3.5	−41.7	12,034	13,414	19,473	−10.3	−31.1	23
9.6	−1.9	42,253	37,432	57,139	12.9	−34.5	13,835	14,000	22,145	−1.2	−36.8	24
13.8	−4.1	45,226	44,765	61,278	1.0	−26.9	36,823	31,718	43,518	16.1	−27.1	25
6.4	−9.3	92,036	86,001	106,443	7.0	−19.2	44,379	43,410	66,963	2.2	−35.2	26
2.6	.7	56,751	58,335	112,238	−2.7	−48.0	39,012	26,486	42,048	47.3	−37.0	27
8.9	−8.4	11,066	12,309	19,951	−10.1	−38.3	9,926	10,096	15,133	−1.7	−33.3	28
−9.4	−6.2	11,658	11,462	17,045	1.7	−32.8	10,769	7,262	15,873	48.3	−54.2	29
−1.0	−11.2	21,315	25,572	39,225	−16.6	−34.8	18,576	17,773	26,000	4.5	−31.6	30
2.9	−7.2	56,512	57,429	84,924	−1.6	−32.4	24,141	22,954	34,937	5.2	−34.3	31
27.6	13.6			21			63	280	484	−77.5	−42.1	32
18.7	8.4	317	688	1,340	−53.9	−48.7	751	1,022	1,725	−26.5	−40.8	33
25.5	24.7											34
23.6	15.1	10,875	12,780	20,986	−14.9	−39.1	5,864	5,192	7,259	12.9	−28.5	35
24.6	−5.5	14,909	19,937	25,591	−25.2	−22.1	2,940	3,447	3,887	−14.7	−11.3	36
26.5	−3.7	5,380	4,856	13,576	10.8	−64.2	4,451	5,041	8,042	−11.7	−37.3	37
27.2	−3.0	3,419	3,128	7,510	9.3	−58.3	1,171	1,524	2,908	−23.2	−47.6	38
30.8	−6.8	6,996	6,562	15,438	6.6	−57.5	2,090	3,057	5,943	−31.6	−48.6	39
39.0	−11.8	870	1,349	2,519	−35.5	−46.4	136	162	191	−16.0	−15.2	40
10.0	−5.3	16,774	15,319	29,511	9.5	−48.1	8,536	9,652	17,651	−11.6	−45.3	41
22.1	−6.1	19,629	20,802	34,104	−5.6	−39.0	7,449	8,265	11,915	−9.9	−30.6	42
30.4	−10.9	7,876	9,517	16,643	−17.2	−42.8	2,088	2,880	5,232	−27.5	−45.0	43
21.2	−14.5	1,700	1,818	6,922	−6.5	−73.7	2,618	3,729	6,442	−29.8	−42.1	44
10.5	−16.0	6,571	6,865	16,642	−4.3	−58.7	3,675	4,570	11,980	−19.6	−61.9	45
25.7	−1.7	2,519	2,248	4,456	12.1	−49.6	1,939	1,918	2,303	1.1	−16.7	46
18.0	−2.8	21,198	19,839	39,200	6.9	−49.4	18,037	16,698	28,890	8.0	−42.2	47
23.4	−3.1	29,139	28,591	75,156	1.9	−62.0	17,716	20,642	31,476	−14.2	−34.4	48
22.3	−5.1	3,177	3,081	3,997	3.1	−22.9	2,967	3,490	3,845	−15.0	−9.2	49
25.0	−6.3	2,965	2,144	3,214	38.3	−33.3	4,143	3,207	4,785	29.2	−33.0	50
19.5	2.6	1,599	1,605	1,947	−.4	−17.6	1,573	2,350	2,325	−33.1	1.1	51
14.2	−1.4	4,460	4,798	5,511	−7.0	−12.9	3,967	5,370	6,385	−26.1	−15.9	52
37.7	14.7	1,153	1,088	2,122	6.0	−48.7	527	661	845	−20.3	−21.8	53
32.8	9.0	530	685	819	−22.6	−16.4	349	347	235	.6	47.7	54
19.6	−4.1	1,259	1,127	1,573	11.7	−28.4	215	339	422	−36.6	−19.7	55
18.8	19.7	158	398	445	−60.3	−10.6	64	164	224	−61.0	−26.8	56
15.7	−6.5	8,924	10,555	12,522	−15.5	−15.7	11,775	11,743	14,801	.3	−20.7	57
10.0	−9.2	7,859	8,795	10,544	−10.6	−16.6	12,362	12,114	14,130	2.0	−14.3	58
19.3	9.3	4,351	4,652	6,664	−6.5	−30.2	16,848	19,839	22,084	−15.1	−10.2	59

TABLE 12.—PERCENT DISTRIBUTION, MILES OF SINGLE WIRE AND NUMBER OF TELEPHONES, ALL SYSTEMS AND LINES, OPERATING COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES, BY DIVISIONS AND STATES: 1937, 1932, AND 1927

DIVISION AND STATE	MILES OF SINGLE WIRE											
	Total			Operating companies						Connecting lines		
				Reporting annual incomes of $10,000 or more			Reporting annual incomes of less than $10,000					
	1937	1932	1927	1937	1932	1927	1937	1932	1927	1937	1932	1927
UNITED STATES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GEOGRAPHIC DIVISIONS:												
New England	8.6	8.8	8.8	8.6	8.9	8.9	2.1	2.3	1.9	.4	.7	.4
Middle Atlantic	30.5	31.2	31.3	30.9	31.6	32.0	5.8	5.6	4.8	3.8	4.8	4.7
East North Central	23.8	24.6	23.8	23.8	24.6	23.9	30.2	29.7	28.3	13.3	13.1	13.6
West North Central	8.6	8.7	9.5	8.2	8.4	8.9	35.0	34.9	32.2	41.4	34.6	36.0
South Atlantic	7.4	6.6	6.6	7.4	6.6	6.6	6.0	6.4	7.4	4.6	5.2	6.1
East South Central	3.1	3.0	3.1	3.0	2.9	3.0	6.4	6.3	7.4	5.5	6.0	7.3
West South Central	5.9	5.7	5.7	5.9	5.7	5.5	8.5	8.0	12.7	11.8	13.4	14.8
Mountain	2.0	1.9	1.9	2.0	1.8	1.8	2.7	2.8	2.5	6.0	8.1	5.8
Pacific	10.1	9.5	9.3	10.2	9.5	9.4	3.3	4.0	2.8	13.2	14.1	11.3
NEW ENGLAND:												
Maine	.6	.6	.5	.6	.6	.5	1.2	1.5	1.0	.2	.4	.2
New Hampshire	.3	.3	.3	.3	.3	.3	.3	.3	.3	.1	.1	.1
Vermont	.2	.2	.2	.2	.2	.2	.5	.4	.6	(1)	.1	.1
Massachusetts	4.6	4.7	5.0	4.6	4.7	5.1	.1	.1	.1	.1	.2	(1)
Rhode Island	.7	.7	.7	.7	.7	.7	------	------	------	------	------	------
Connecticut	2.2	2.3	2.1	2.3	2.4	2.2	(1)	(1)	(1)	------	------	------
MIDDLE ATLANTIC:												
New York	16.9	17.5	18.2	17.1	17.8	18.6	2.3	2.3	2.1	.8	1.1	1.3
New Jersey	5.0	5.0	4.7	5.1	5.1	4.8	.3	.3	.1	(1)	(1)	.1
Pennsylvania	8.6	8.7	8.4	8.7	8.8	8.6	3.1	3.0	2.6	3.0	3.7	3.3
EAST NORTH CENTRAL:												
Ohio	6.3	6.3	5.7	6.3	6.4	5.8	4.9	5.9	5.9	.7	.5	1.2
Indiana	2.5	2.5	2.4	2.5	2.5	2.4	6.2	5.7	6.5	1.2	1.0	1.1
Illinois	8.2	8.7	8.9	8.3	8.7	9.0	7.7	7.7	7.1	3.8	3.3	4.0
Michigan	4.7	4.9	4.6	4.7	4.9	4.7	3.6	3.4	3.0	3.4	4.0	3.3
Wisconsin	2.1	2.2	2.1	2.1	2.2	2.0	7.9	7.1	5.7	4.3	4.2	3.9
WEST NORTH CENTRAL:												
Minnesota	1.9	1.8	2.2	1.8	1.8	2.1	7.2	6.5	6.2	9.3	8.1	7.0
Iowa	1.4	1.5	1.5	1.4	1.4	1.4	8.0	7.4	5.4	6.8	6.5	6.8
Missouri	3.0	3.0	3.1	2.9	3.0	3.0	6.0	6.3	7.1	7.8	5.0	5.8
North Dakota	.2	.2	.2	.2	.2	.2	1.9	2.3	1.9	3.3	3.1	3.2
South Dakota	.2	.2	.2	.2	.2	.2	1.9	1.8	1.4	2.9	1.8	2.7
Nebraska	.8	.8	1.0	.8	.8	.9	3.4	3.8	3.4	5.4	5.1	4.9
Kansas	1.1	1.2	1.2	1.1	1.1	1.1	6.7	6.9	6.8	5.7	5.1	5.6
SOUTH ATLANTIC:												
Delaware	.3	.2	.2	.3	.2	.2	------	------	(1)	(1)	.1	.1
Maryland	1.3	1.2	1.5	1.3	1.2	1.5	.1	.1	.1	.2	.3	.3
Dist. of Columbia	.9	.8	.8	.9	.8	.9	------	------	------	------	------	------
Virginia	1.1	1.0	1.0	1.1	1.0	1.0	1.5	1.6	1.7	1.1	1.1	1.2
West Virginia	.5	.5	.5	.5	.5	.5	1.6	2.2	1.8	.6	.7	.5
North Carolina	.9	.8	.6	.8	.8	.6	.9	.7	1.3	1.4	1.4	1.7
South Carolina	.4	.3	.3	.4	.3	.3	.6	.5	.8	.5	.6	.8
Georgia	1.0	.9	.8	1.0	.9	.8	1.0	.9	1.3	.7	1.0	1.4
Florida	1.0	.8	.9	1.0	.8	.9	.4	.4	.3	.1	.1	.1
EAST SOUTH CENTRAL:												
Kentucky	1.0	1.0	1.1	1.0	1.0	1.1	2.0	1.9	2.5	2.1	2.0	2.7
Tennessee	1.0	1.0	1.0	1.0	.9	1.0	3.0	3.1	3.2	2.0	2.0	2.3
Alabama	.6	.7	.7	.6	.7	.6	1.1	1.0	1.1	.7	.9	1.1
Mississippi	.3	.3	.3	.3	.3	.3	.3	.3	.5	.7	1.1	1.3
WEST SOUTH CENTRAL:												
Arkansas	.4	.4	.5	.4	.4	.5	.8	.8	1.4	.9	1.2	2.1
Louisiana	.8	.8	.9	.8	.8	.9	.3	.3	.4	.6	.6	.5
Oklahoma	1.4	1.3	1.0	1.4	1.3	1.0	2.4	2.2	2.5	4.1	3.9	4.8
Texas	3.3	3.2	3.3	3.3	3.1	3.1	4.9	4.7	8.4	6.3	7.6	7.4
MOUNTAIN:												
Montana	.2	.2	.2	.2	.2	.2	.6	.6	.5	1.5	1.8	1.1
Idaho	.2	.2	.2	.2	.1	.2	.4	.3	.3	1.3	1.0	.9
Wyoming	.1	.1	.1	.1	.1	.1	.4	.3	.2	1.1	1.6	1.0
Colorado	.9	.8	.9	.8	.8	.9	.7	.9	.7	1.6	2.6	2.0
New Mexico	.1	.1	.1	.1	.1	.1	.2	.2	.3	.2	.4	.4
Arizona	.2	.2	.1	.2	.2	.1	.2	.2	.2	.1	.3	.2
Utah	.3	.3	.3	.3	.3	.3	.3	.2	.2	.1	.1	.1
Nevada	.1	.1	(1)	.1	.1	(1)	.1	.1	.1	(1)	.2	.1
PACIFIC:												
Washington	1.2	1.2	1.2	1.2	1.2	1.1	1.3	1.6	1.1	3.6	3.4	3.0
Oregon	.7	.7	.8	.7	.7	.7	1.0	1.2	.9	3.2	3.3	2.6
California	8.3	7.7	7.4	8.3	7.7	7.5	1.0	1.1	.9	6.4	7.4	5.6

[1] Less than 1/10 of 1 percent.

TABLE 12.—PERCENT DISTRIBUTION, MILES OF SINGLE WIRE AND NUMBER OF TELEPHONES, ALL SYSTEMS AND LINES, OPERATING COMPANIES GROUPED ACCORDING TO ANNUAL INCOMES, AND CONNECTING LINES, BY DIVISIONS AND STATES: 1937, 1932, AND 1927—Continued

DIVISION AND STATE	TELEPHONES (NUMBER)											
	Total			Operating companies						Connecting lines		
				Reporting annual incomes of $10,000 or more			Reporting annual incomes of less than $10,000					
	1937	1932	1927	1937	1932	1927	1937	1932	1927	1937	1932	1927
UNITED STATES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GEOGRAPHIC DIVISIONS:												
New England	8.3	8.7	8.3	8.7	9.2	9.1	1.7	1.8	1.5	.3	.6	.5
Middle Atlantic	25.1	26.5	24.8	26.4	27.9	26.9	4.7	5.1	5.3	4.1	5.2	5.9
East North Central	23.7	23.2	24.8	23.7	23.1	24.9	28.7	28.2	27.7	15.0	14.8	15.5
West North Central	12.2	13.0	14.0	10.3	11.1	11.4	39.9	39.3	36.2	46.6	41.3	41.4
South Atlantic	8.0	7.1	6.8	8.2	7.3	6.9	5.8	6.5	7.1	4.4	5.1	5.2
East South Central	3.3	3.1	3.5	3.1	2.9	3.1	6.2	6.3	7.1	5.2	6.3	7.0
West South Central	6.1	5.8	6.2	6.0	5.5	5.6	8.0	7.6	11.1	10.5	11.3	12.7
Mountain	2.7	2.6	2.5	2.7	2.6	2.5	2.1	2.0	1.6	3.5	4.1	3.2
Pacific	10.6	10.1	9.1	10.9	10.4	9.6	2.9	3.2	2.4	10.4	11.3	8.6
NEW ENGLAND:												
Maine	.7	.7	.7	.7	.7	.7	1.0	1.1	.8	.2	.3	.3
New Hampshire	.4	.5	.4	.4	.5	.5	.2	.3	.3	(1)	.1	.1
Vermont	.3	.3	.3	.3	.3	.3	.4	.3	.4	(1)	.1	.1
Massachusetts	4.5	4.8	4.7	4.8	5.1	5.2	.1	.1	.1	(1)	(1)	(1)
Rhode Island	.6	.6	.6	.6	.7	.7	------	------	------	------	------	------
Connecticut	1.8	1.8	1.6	1.9	1.9	1.7	(1)	(1)	(1)	------	------	------
MIDDLE ATLANTIC:												
New York	14.0	15.1	14.0	14.7	16.0	15.3	2.3	2.5	2.6	.9	1.4	1.9
New Jersey	3.6	3.7	3.2	3.8	3.9	3.6	.1	.1	.1	(1)	(1)	.1
Pennsylvania	7.5	7.7	7.5	7.8	8.0	8.0	2.4	2.5	2.6	3.1	3.8	3.9
EAST NORTH CENTRAL:												
Ohio	5.9	5.6	6.1	6.1	5.8	6.3	4.4	5.1	5.3	1.1	.8	1.4
Indiana	2.6	2.6	3.0	2.4	2.4	2.7	7.0	6.4	7.0	1.7	1.6	1.6
Illinois	8.6	8.7	9.1	8.7	8.7	9.3	8.6	8.8	7.6	5.7	5.3	5.4
Michigan	3.9	3.6	3.8	4.0	3.6	3.9	3.0	2.9	3.0	3.1	3.5	3.3
Wisconsin	2.7	2.8	2.8	2.6	2.6	2.6	5.7	5.0	4.7	3.5	3.6	3.8
WEST NORTH CENTRAL:												
Minnesota	2.6	2.5	2.6	2.3	2.3	2.3	6.1	5.9	5.0	9.3	8.2	7.4
Iowa	2.6	2.8	3.1	2.1	2.2	2.3	12.5	11.4	8.7	11.3	11.2	11.3
Missouri	3.2	3.4	3.6	2.8	3.1	3.0	7.7	7.7	9.2	9.9	6.8	7.1
North Dakota	.4	.4	.5	.3	.3	.3	1.5	1.6	1.6	2.5	2.6	2.6
South Dakota	.4	.5	.6	.3	.4	.4	1.6	1.5	1.4	2.7	1.9	2.7
Nebraska	1.2	1.4	1.6	1.1	1.3	1.4	2.9	3.4	3.2	4.7	4.6	4.4
Kansas	1.8	1.9	2.1	1.4	1.6	1.6	7.7	7.6	7.0	6.1	5.9	5.9
SOUTH ATLANTIC:												
Delaware	.2	.2	.2	.2	.2	.2	------	------	(1)	(1)	.1	.1
Maryland	1.3	1.2	1.1	1.4	1.3	1.2	(1)	.1	.1	.2	.3	.3
Dist. of Columbia	1.2	1.0	.8	1.2	1.1	.9	------	------	------	------	------	------
Virginia	1.2	1.1	1.0	1.2	1.1	.9	1.5	1.7	1.7	1.5	1.3	1.2
West Virginia	.8	.8	.8	.8	.7	.7	2.0	2.6	2.1	.7	.9	.7
North Carolina	.9	.8	.9	.9	.8	.8	.7	.6	1.1	1.1	1.3	1.4
South Carolina	.4	.3	.3	.4	.3	.3	.5	.4	.6	.3	.4	.5
Georgia	1.0	.9	.9	1.0	.9	.9	.9	.9	1.3	.5	.8	1.0
Florida	1.0	.8	.9	1.1	.9	1.0	.1	.2	.2	(1)	(1)	(1)
EAST SOUTH CENTRAL:												
Kentucky	1.1	1.1	1.2	1.0	1.0	1.1	2.3	2.0	2.4	2.2	2.5	3.0
Tennessee	1.2	1.1	1.2	1.1	1.0	1.0	2.7	2.8	2.8	1.9	2.1	2.0
Alabama	.6	.6	.7	.6	.5	.6	1.1	1.3	1.4	.5	.7	.9
Mississippi	.4	.4	.4	.4	.3	.4	.2	.2	.6	.7	1.0	1.1
WEST SOUTH CENTRAL:												
Arkansas	.5	.5	.6	.5	.5	.5	.9	.9	1.4	.9	1.2	2.0
Louisiana	.9	.8	.7	.9	.8	.8	.3	.3	.4	.5	.5	.4
Oklahoma	1.4	1.4	1.5	1.3	1.3	1.3	2.9	2.6	3.2	4.6	4.3	4.9
Texas	3.4	3.1	3.3	3.3	3.0	3.0	3.9	3.8	6.2	4.5	5.3	5.3
MOUNTAIN:												
Montana	.3	.3	.3	.3	.3	.3	.4	.4	.3	.8	.9	.7
Idaho	.3	.3	.3	.3	.3	.3	.4	.3	.3	1.1	.8	.8
Wyoming	.2	.2	.2	.2	.1	.1	.2	.2	.2	.4	.6	.4
Colorado	1.0	1.0	1.0	1.1	1.0	1.0	.6	.6	.5	1.0	1.4	1.1
New Mexico	.2	.1	.1	.2	.1	.1	.2	.1	.2	.1	.2	.1
Arizona	.2	.2	.2	.3	.2	.2	.1	.1	.1	.1	.1	(1)
Utah	.4	.3	.3	.4	.4	.4	.2	.1	.1	.1	.1	.1
Nevada	.1	.1	.1	.1	.1	.1	(1)	.1	(1)	(1)	(1)	(1)
PACIFIC:												
Washington	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.4	1.0	3.0	3.0	2.5
Oregon	.9	1.0	1.0	.9	.9	1.0	1.1	1.2	.9	3.1	3.1	2.4
California	8.0	7.5	6.5	8.4	7.9	7.0	.6	.6	.5	4.3	5.1	3.7

TABLE 13.—SUMMARY—TELEPHONE AND TELEGRAPH SYSTEMS: 1902–37

ITEM	Census year	Total	Telephones [1]	Telegraphs [2]	PERCENT OF TOTAL	
					Telephones	Telegraphs
Number of systems and lines	1937	50,583	[3] 50,560	23	--------	--------
	1932	55,401	[4] 55,378	23	--------	--------
	1927	60,173	60,148	25	--------	--------
	1922	57,278	57,253	25	--------	--------
	1917	53,262	53,234	28	--------	--------
	1912	32,261	32,233	28	--------	--------
	1907	22,998	22,971	27	--------	--------
	1902	9,161	9,136	25	--------	--------
Miles of single wire	1937	93,159,253	[3] 90,831,421	[5] 2,327,832	97.5	2.5
	1932	89,943,640	87,677,586	[5] 2,266,054	97.5	2.5
	1927	65,982,079	63,836,182	[5] 2,145,897	96.7	3.3
	1922	39,119,208	37,265,958	[5] 1,853,250	95.3	4.7
	1917	30,717,433	28,827,188	[5] 1,890,245	93.8	6.2
	1912	22,062,522	20,248,326	[5] 1,814,196	91.8	8.2
	1907	14,577,325	12,999,364	1,577,961	89.2	10.8
	1902	6,218,801	4,900,451	1,318,350	78.8	21.2
Ocean cable, nautical miles	1937	103,671	----------	103,671	--------	100.0
	1932	96,468	----------	96,468	--------	100.0
	1927	99,074	----------	99,074	--------	100.0
	1922	76,711	----------	76,711	--------	100.0
	1917	71,251	----------	71,251	--------	100.0
	1912	67,676	----------	67,676	--------	100.0
	1907	46,301	----------	46,301	--------	100.0
	1902	16,677	----------	16,677	--------	100.0
Number of employees	1937	406,619	333,162	73,457	81.9	18.1
	1932	400,808	334,085	66,723	83.4	16.6
	1927	456,770	375,272	81,498	82.2	17.8
	1922	380,647	312,015	68,632	82.0	18.0
	1917	327,352	262,629	64,723	80.2	19.8
	1912	228,172	183,361	[6] 44,811	80.4	19.6
	1907	172,203	144,169	28,034	83.7	16.3
	1902	106,379	78,752	27,627	74.0	26.0
Salaries and wages	1937	$600,387,907	$516,640,009	$83,747,898	86.1	13.9
	1932	532,065,600	458,116,677	73,948,923	86.1	13.9
	1927	586,117,427	486,597,070	99,520,357	83.0	17.0
	1922	429,087,496	352,925,570	76,161,926	82.3	17.7
	1917	219,434,650	175,670,449	43,764,201	80.1	19.9
	1912	121,005,535	96,040,541	[6] 24,964,994	79.4	20.6
	1907	86,087,376	68,279,127	17,808,249	79.3	20.7
	1902	51,295,294	36,255,621	15,039,673	70.7	29.3
Total operating revenues [7]	1937	$1,315,819,915	$1,180,028,372	$135,791,543	89.7	10.3
	1932	1,176,185,836	1,061,530,140	114,655,696	90.3	9.7
	1927	1,201,162,663	1,023,573,567	177,589,096	85.2	14.8
	1922	812,373,494	665,568,279	146,805,215	81.9	18.1
	1917	489,819,495	382,829,752	106,989,743	78.2	21.8
	1912	304,879,273	244,476,264	60,403,009	80.2	19.8
	1907	223,142,947	177,887,760	45,255,187	79.7	20.3
	1902	117,951,738	82,651,169	35,300,569	70.1	29.9
Investment in plant and equipment.	1937	$5,508,568,022	[3] $5,001,803,335	$506,764,687	90.8	9.2
	1932	5,298,347,951	4,791,902,525	506,445,426	90.4	9.6
	1927	3,975,573,458	3,548,874,716	426,698,742	89.3	10.7
	1922	2,531,845,010	2,205,183,150	326,661,860	87.1	12.9
	1917	1,735,687,447	1,492,329,015	243,358,432	86.0	14.0
	1912	1,303,479,973	1,081,433,227	222,046,746	83.0	17.0
	1907	1,030,462,967	820,417,008	210,045,959	79.6	20.4
	1902	550,957,811	389,278,232	161,679,579	70.7	29.3

[1] For the item "Number of systems and lines" and "Miles of single wire," the statistics comprise data for all systems and lines. For the other items the exclusions are as follows: The figures for 1912 and 1907 exclude data for systems and lines reporting annual incomes of less than $5,000, and those for 1902 exclude data for "Farmer and rural lines." Does not include data for radiotelephone systems.

[2] Not including radiotelegraph systems. The Western Union Telegraph Co., which operated both land and ocean-cable systems is counted as 2 companies.

[3] Includes data for 11,759 connecting lines having fewer than 5 telephones per line, as follows: 29,201 telephones; 44,249 miles of single wire (estimated); and $1,599,615 investment in equipment (estimated).

[4] Includes 10,550 connecting lines for which separate reports were not secured; data for such lines, however, were included in reports of operating companies supplying switchboard service.

[5] Exclusive of data for wire owned and operated wholly by railway companies as follows: For 1937, 318,116 miles; for 1932, 337,059 miles; for 1927, 333,898 miles; for 1922, 285,002 miles; for 1917, 344,110 miles; and for 1912, 314,329 miles.

[6] Includes 7,516 messengers, whose wages were not reported and are not, therefore, included in the figure for salaries and wages.

[7] The figures for telephone companies include data for miscellaneous operating revenues and assessments by mutual companies.

Chapter III.—EQUIPMENT AND TRAFFIC

Wire mileage.—A large proportion of the mileage of telephone wire is carried in cables. In reporting mileage of wire in cables the length of each individual wire was included. In 1937 for the first time the small operating companies reported wire in cable and not in cable. Connecting lines which have little or no wire in cable were not called upon to make such a distribution.

Telephones.—The number of telephones, usually, is a matter of record and therefore fairly accurate. The number reported represents telephones wired for general service on December 31, 1937, and does not include those used exclusively within hotels, mercantile or other commercial, or private buildings for connection with different rooms, and having no connection with outside exchanges. Nor does it include telephones belonging to railway, police, and fire-alarm systems.

Number of "originating calls."—Operating companies were requested to report the "estimated number of telephone connections or calls, both completed and uncompleted," originating from telephones owned and operated by the reporting company as well as calls handled for service lines, that is, lines owned independently of the operating company which supplied the switchboard service. Interior private-branch exchange calls were excluded.

Both the Bell system and the larger non-Bell systems ordinarily make actual counts of their calls at least as often as 1 day in each month, and their estimates may therefore be considered as fairly close approximations to accuracy. The smaller companies were also called upon for estimates, but their figures have a wider margin of probable error, since these companies do not as a rule make periodical counts of their calls. Inasmuch as the calls of the small companies, as reported for 1937, constituted only 2.0 percent of the total for all companies, it is not likely that the margin of error contained in that total is greatly in excess of the margin of error in the total for the large companies. The number of originating calls was reported in many cases in apparently exact figures and not in round numbers in which approximations are usually shown. It should, therefore, be borne in mind that despite their exact appearance they probably do not correctly represent any number more nearly exact than round billions for the country as a whole or tens or hundreds of millions for individual States.

TABLE 14.—MILES OF SINGLE WIRE IN CABLE, AND NOT IN CABLE, THE BELL SYSTEM AND OTHER SYSTEMS AND LINES: 1937, 1932, AND 1927

CENSUS YEAR	Total	In cable	Not in cable	PERCENT OF TOTAL	
				In cable	Not in cable
1937—Total	90,831,421	83,457,378	[1] 7,374,043	91.9	8.1
Bell system	81,578,393	76,995,511	4,582,882	94.4	5.6
Other systems and lines	9,253,028	6,461,867	[1] 2,791,161	69.8	30.2
1932—Total	87,677,586	79,793,809	[2] 7,883,777	91.0	9.0
Bell system	80,585,879	75,724,003	4,861,876	94.0	6.0
Other systems and lines	7,091,707	4,069,806	[2] 3,021,901	57.4	42.6
1927—Total	63,836,182	55,997,284	[2] 7,838,898	87.7	12.3
Bell system	56,819,036	52,330,442	4,488,594	92.1	7.9
Other systems and lines	7,017,146	3,666,842	[2] 3,350,304	52.3	47.7

[1] Includes a total of 507,962 miles of single wire on connecting lines not segregated as to "In cable" and "Not in cable"; of this amount 44,249 miles was estimated for 11,759 connecting lines having fewer than 5 telephones per line.

[2] Figures include data for wire not distributed as to "In cable" and "Not in cable" for systems and lines having annual operating incomes of less than $10,000 as follows: 1932, 1,193,093 miles; and 1927, 1,558,936 miles.

TABLE 15.—TELEPHONES, ORIGINATING CALLS, AND AVERAGE CALLS PER TELEPHONE PER DAY, FOR SYSTEMS REPORTING ANNUAL INCOMES OF $10,000 OR MORE, BY DIVISIONS AND STATES: 1937, 1932, 1927

DIVISION AND STATE	TELEPHONES (NUMBER) [1]			ORIGINATING CALLS (NUMBER)					
	1937	1932	1927	1937	1932	1927	Average per telephone per day [2]		
							1937	1932	1927
UNITED STATES	18,291,184	16,284,231	16,712,495	32,932,124,009	29,100,458,313	29,196,387,446	5.5	5.5	5.4
GEOGRAPHIC DIVISIONS:									
New England	1,592,068	1,498,010	1,527,779	2,566,489,694	2,446,550,612	2,301,676,289	5.0	5.0	4.6
Middle Atlantic	4,823,263	4,555,298	4,488,761	7,245,016,445	6,855,121,393	6,772,613,874	4.6	4.6	4.6
East North Central	4,337,146	3,765,622	4,161,039	7,057,899,825	6,278,574,841	6,981,577,447	5.0	5.1	5.2
West North Central	1,894,545	1,805,413	1,908,505	3,823,112,948	3,586,172,670	3,696,289,582	6.2	6.1	6.0
South Atlantic	1,493,890	1,181,857	1,144,802	3,122,976,819	2,375,533,895	2,243,313,956	6.4	6.2	6.0
East South Central	567,299	475,458	515,850	1,588,389,654	1,334,431,340	1,375,680,620	8.6	8.6	8.2
West South Central	1,094,116	901,018	939,254	3,029,611,824	2,506,595,472	2,384,074,349	8.5	8.6	7.8
Mountain	500,101	415,638	417,504	952,390,370	774,883,518	667,489,457	5.9	5.7	4.9
Pacific	1,988,756	1,685,917	1,609,001	3,546,236,430	2,942,594,572	2,773,671,872	5.5	5.4	5.3
NEW ENGLAND:									
Maine	119,920	115,040	120,565	197,194,060	198,596,170	200,983,841	5.1	5.3	5.1
New Hampshire	81,659	76,646	79,466	119,002,700	125,108,685	112,022,352	4.5	5.0	4.3
Vermont	54,437	55,132	55,066	82,465,769	83,502,628	77,433,892	4.7	4.7	4.3
Massachusetts	870,759	832,112	866,955	1,406,494,369	1,367,402,922	1,332,616,591	5.0	5.1	4.7
Rhode Island	117,239	110,671	114,944	179,975,368	176,379,513	116,850,532	4.7	4.9	3.1
Connecticut	348,054	308,409	290,783	581,357,428	495,560,694	461,769,081	5.1	4.9	4.9
MIDDLE ATLANTIC:									
New York	2,691,697	2,604,479	2,552,546	4,212,615,295	3,980,651,410	3,873,439,628	4.8	4.7	4.7
New Jersey	698,188	642,198	597,304	938,121,510	837,132,188	771,553,790	4.1	4.0	4.0
Pennsylvania	1,433,378	1,308,621	1,338,911	2,094,279,640	2,037,337,795	2,127,620,456	4.5	4.8	4.9
EAST NORTH CENTRAL:									
Ohio	1,110,102	936,782	1,048,890	1,952,462,140	1,674,065,918	1,855,333,078	5.4	5.5	5.4
Indiana	446,635	390,671	457,240	846,195,280	818,566,524	925,289,509	5.8	6.4	6.2
Illinois	1,582,996	1,420,240	1,560,845	2,333,295,162	2,134,888,259	2,417,762,286	4.5	4.6	4.8
Michigan	725,263	587,000	654,887	1,178,421,996	949,976,573	1,058,875,335	5.0	5.0	5.0
Wisconsin	472,150	430,929	439,177	747,525,247	701,077,567	724,317,239	4.9	5.0	5.1

West North Central:									
Minnesota	417,722	367,199	382,815	847,429,415	793,304,052	795,292,000	6.2	6.6	6.4
Iowa	378,045	355,468	392,127	702,532,673	665,092,468	700,488,603	5.7	5.8	5.5
Missouri	520,414	507,332	503,660	1,151,519,947	1,080,997,801	1,052,378,034	6.8	6.6	6.4
North Dakota	51,015	46,836	51,114	103,058,125	129,762,282	91,328,625	6.2	8.5	5.5
South Dakota	63,473	70,074	74,723	109,061,727	105,665,668	137,645,338	5.3	4.6	5.7
Nebraska	202,252	204,206	230,049	396,887,431	333,673,650	443,746,312	6.0	5.0	5.9
Kansas	261,624	254,298	274,017	512,623,630	477,676,749	475,410,670	6.0	5.8	5.3
South Atlantic:									
Delaware	41,162	32,257	28,396	71,171,940	57,557,580	52,437,096	5.3	5.5	5.7
Maryland	249,551	210,304	194,070	367,712,276	315,822,392	290,556,762	4.5	4.6	4.6
District of Columbia	226,957	180,785	144,985	305,436,036	235,337,052	186,008,388	4.1	4.0	3.9
Virginia	221,202	178,984	155,453	500,050,544	406,819,558	343,212,210	7.0	7.0	6.8
West Virginia	138,024	110,766	117,199	281,776,246	228,024,407	225,440,467	6.3	6.3	5.9
North Carolina	169,330	133,813	138,889	486,025,917	311,326,095	343,653,164	8.8	7.2	7.6
South Carolina	66,869	52,563	54,198	182,985,143	143,015,878	129,769,858	8.4	8.4	7.4
Georgia	185,205	141,645	152,029	547,387,710	406,050,941	407,189,901	9.1	8.8	8.2
Florida	195,590	140,740	159,583	380,431,007	271,579,992	265,046,110	6.0	5.9	5.1
East South Central:									
Kentucky	182,889	166,265	175,573	415,724,486	386,769,896	422,841,800	7.0	7.2	7.4
Tennessee	200,175	163,916	174,540	633,951,029	508,380,927	498,752,558	9.7	9.5	8.8
Alabama	115,328	88,416	99,240	349,030,843	271,081,721	291,463,330	9.3	9.4	9.0
Mississippi	68,907	56,861	66,497	189,683,296	168,198,796	162,622,932	8.5	9.1	7.5
West South Central:									
Arkansas	83,175	75,241	89,556	202,904,142	183,586,630	205,679,645	7.5	7.5	7.1
Louisiana	161,672	128,569	130,851	492,659,406	388,894,494	376,690,142	9.4	9.3	8.9
Oklahoma	241,702	204,916	210,822	631,667,468	541,393,864	505,339,497	8.0	8.1	7.4
Texas	607,567	492,292	508,025	1,702,380,808	1,392,720,484	1,296,365,065	8.6	8.7	7.9
Mountain:									
Montana	59,673	48,790	51,396	110,855,054	91,615,060	71,588,487	5.7	5.8	4.3
Idaho	54,819	43,850	46,823	111,739,316	87,939,305	81,714,186	6.3	6.2	5.4
Wyoming	29,148	24,391	23,777	57,314,994	44,300,507	32,922,085	6.1	5.6	4.3
Colorado	192,957	168,895	171,354	340,905,274	292,715,308	277,517,984	5.4	5.3	5.0
New Mexico	29,391	21,351	18,613	58,553,004	40,906,061	32,076,269	6.1	5.9	5.3
Arizona	46,526	35,032	32,140	92,045,328	67,049,928	35,966,009	6.1	5.9	3.4
Utah	70,115	58,616	61,111	152,915,104	128,157,918	117,482,184	6.7	6.7	5.9
Nevada	17,472	14,713	12,290	28,062,296	22,199,431	18,222,253	4.9	4.6	4.6
Pacific:									
Washington	294,254	254,232	271,786	594,032,924	541,289,713	517,563,582	6.2	6.6	5.9
Oregon	160,280	145,730	160,497	323,019,373	291,845,170	303,540,278	6.2	6.2	5.8
California	1,534,222	1,285,955	1,176,718	2,629,184,133	2,109,459,689	1,952,568,012	5.3	5.0	5.1

[1] Number on Dec. 31 of each Census year.

[2] Computed on basis of 325 days to the year.

TABLE 16.—TELEPHONES—NUMBER PER 1,000 POPULATION, FOR ALL SYSTEMS AND LINES, BY DIVISIONS AND STATES: 1917–37

[The figures in this table are based on the number of telephones reported as of Dec. 31; and on population estimated as follows: For the year 1937 as of July 1; for the years 1932, 1927, 1922, and 1917, as of Jan. 1, 1933, 1928, 1923, and 1918, respectively]

DIVISION AND STATE	1937	1932	1927	1922	1917
UNITED STATES	150	139	155	130	112
GEOGRAPHIC DIVISIONS:					
New England	187	183	188	160	120
Middle Atlantic	177	172	183	140	109
East North Central	178	156	185	164	158
West North Central	172	169	196	181	168
South Atlantic	90	78	79	64	55
East South Central	59	55	69	58	48
West South Central	93	81	98	82	70
Mountain	140	119	117	109	91
Pacific	232	205	242	192	160
NEW ENGLAND:					
Maine	150	155	165	147	113
New Hampshire	164	170	183	154	118
Vermont	150	161	172	155	131
Massachusetts	197	193	203	172	125
Rhode Island	172	158	162	149	102
Connecticut	200	188	176	141	117
MIDDLE ATLANTIC:					
New York	209	204	226	165	126
New Jersey	161	154	158	115	83
Pennsylvania	144	138	142	120	98
EAST NORTH CENTRAL:					
Ohio	170	144	166	159	161
Indiana	145	136	175	170	161
Illinois	212	193	229	190	171
Michigan	157	124	156	129	139
Wisconsin	181	162	177	158	137
WEST NORTH CENTRAL:					
Minnesota	188	171	180	171	175
Iowa	202	196	233	217	221
Missouri	154	162	187	160	149
North Dakota	102	101	134	116	97
South Dakota	124	127	154	156	122
Nebraska	178	178	210	206	192
Kansas	184	176	215	198	160
SOUTH ATLANTIC:					
Delaware	158	135	119	103	103
Maryland	149	128	123	103	86
District of Columbia	362	366	266	217	190
Virginia	88	81	72	65	54
West Virginia	84	76	86	75	70
North Carolina	51	44	55	44	38
South Carolina	38	33	35	31	26
Georgia	63	52	54	46	43
Florida	118	92	117	77	53
EAST SOUTH CENTRAL:					
Kentucky	71	72	87	82	68
Tennessee	79	73	88	72	61
Alabama	43	37	47	35	32
Mississippi	36	31	45	36	28
WEST SOUTH CENTRAL:					
Arkansas	46	46	61	55	49
Louisiana	78	62	71	47	34
Oklahoma	110	99	116	104	76
Texas	106	90	113	94	90
MOUNTAIN:					
Montana	122	103	108	91	107
Idaho	126	110	101	105	82
Wyoming	138	123	114	119	84
Colorado	188	171	169	153	114
New Mexico	74	53	55	49	36
Arizona	115	80	71	65	68
Utah	138	116	120	113	104
Nevada	175	164	168	136	77
PACIFIC:					
Washington	190	174	190	167	116
Oregon	176	170	207	180	144
California	253	219	268	204	188

TABLE 17.—ORIGINATING CALLS—NUMBER PER CAPITA, FOR SYSTEMS AND LINES REPORTING ANNUAL INCOMES OF $10,000 OR MORE, 1937, 1932, 1927, AND 1922; AND FOR THOSE REPORTING $5,000 OR MORE, 1917; BY DIVISIONS AND STATES

[The figures in this table are based on population estimated as of July 1 of each year]

DIVISION AND STATE	ORIGINATING CALLS PER CAPITA					RANK BASED ON AVERAGE NUMBER OF CALLS		
	1937	1932	1927	1922	1917	1937	1932	1927
UNITED STATES	255	233	246	200	194			
GEOGRAPHIC DIVISIONS:								
New England	299	296	281	246	208	2	2	3
Middle Atlantic	264	256	272	202	175	5	4	5
East North Central	273	244	284	240	264	4	5	2
West North Central	277	268	280	248	250	3	3	4
South Atlantic	181	148	141	111	104	8	8	9
East South Central	148	133	147	120	110	9	9	8
West South Central	235	202	205	157	154	7	7	6
Mountain	251	207	166	163	159	6	6	7
Pacific	401	346	403	325	312	1	1	1
NEW ENGLAND:								
Maine	230	248	253	220	190	28	19	17
New Hampshire	233	267	246	220	199	26	13	19
Vermont	215	232	220	191	279	35	25	24
Massachusetts	318	318	314	276	215	8	4	8
Rhode Island	264	253	166	202	179	20	14	35
Connecticut	334	303	282	215	195	4	7	13
MIDDLE ATLANTIC:								
New York	325	310	339	248	209	5	5	4
New Jersey	216	202	206	141	112	34	28	28
Pennsylvania	206	209	219	171	157	36	27	25
EAST NORTH CENTRAL:								
Ohio	290	248	276	238	302	13	18	14
Indiana	244	250	294	265	273	25	16	11
Illinois	296	275	331	273	268	10	11	6
Michigan	244	191	236	198	244	23	32	21
Wisconsin	255	236	248	198	191	21	23	18
WEST NORTH CENTRAL:								
Minnesota	320	307	296	275	273	6	6	10
Iowa	275	268	289	238	269	17	12	12
Missouri	289	296	300	247	250	14	9	9
North Dakota	146	189	142	114	130	42	34	37
South Dakota	158	151	198	167	148	40	39	30
Nebraska	291	240	318	331	335	12	20	7
Kansas	275	252	260	244	214	18	15	15
SOUTH ATLANTIC:								
Delaware	273	240	216	176	168	19	21	26
Maryland	219	191	182	157	130	33	33	33
District of Columbia	487	477	344	276	271	1	1	2
Virginia	185	167	135	90	98	38	38	39
West Virginia	151	129	133	106	90	41	40	40
North Carolina	139	96	119	88	70	44	46	42
South Carolina	98	82	70	62	57	48	49	49
Georgia	177	140	128	110	115	39	42	41
Florida	228	178	194	161	155	29	36	32
EAST SOUTH CENTRAL:								
Kentucky	142	147	167	150	142	43	41	34
Tennessee	219	192	201	163	140	32	31	29
Alabama	121	101	114	83	77	46	44	43
Mississippi	94	83	91	69	70	49	48	46
WEST SOUTH CENTRAL:								
Arkansas	99	98	107	100	98	47	45	44
Louisiana	231	182	195	137	109	27	35	31
Oklahoma	248	222	212	173	159	22	26	27
Texas	276	234	240	179	190	16	24	20
MOUNTAIN:								
Montana	206	170	100	108	155	37	37	45
Idaho	227	197	153	159	131	30	29	36
Wyoming	244	193	137	171	159	24	30	38
Colorado	318	280	258	235	201	7	10	16
New Mexico	139	95	82	71	72	45	47	47
Arizona	223	150	78	78	70	31	40	48
Utah	295	249	225	215	230	11	17	23
Nevada	278	239	235	202	160	15	22	22
PACIFIC:								
Washington	358	341	331	283	252	3	3	5
Oregon	315	300	341	288	269	9	8	3
California	427	355	440	349	348	2	2	1

Chapter IV.—COMPARISON OF BELL AND OTHER SYSTEMS; STATISTICS FOR SMALL SYSTEMS AND LINES

The Bell system.—A very large proportion of the telephone business of the United States is conducted by a single organization, the American Telephone and Telegraph Co., and its principal telephone subsidiaries, commonly known as the Bell system. This system made one consolidated report for its constituent companies, but supplied separate data for its equipment and traffic in each State. (See tables 20 to 23.)

The group of companies which comprised the Bell system in 1937 excluded two companies which were included in the Bell system total for prior censuses and included four companies which were not so included. The effect of this change on data reported for total "Bell system" for 1937 was negligible. However, this change in the composition of the "Bell system" did affect the distribution of Bell data by States, so that comparisons of 1937 State data with prior census years is not significant for certain States, notably the State of Connecticut.

Wire mileage and number of telephones.—Wire mileage and number of telephones are the only items for which satisfactory comparisons between the Bell system and all other systems and lines (including those with incomes below $5,000) can be made for years prior to 1917.

Comparison of the growth of the Bell system with all other systems.—The growth of the Bell system and of all other systems during the past 35 years is shown in table 18. During the 35-year period from 1902 to 1937 the number of telephones reported by the Bell system showed an increase of 1,064 percent, while the corresponding increase for all other telephone systems was 291 percent.

Interpretation of the statistics.—In studying the tables it is important to note that since the number of telephones at the end of 1937 was probably higher than the average for that year and that the number at the end of 1932 was probably lower than the average for that year, any derived statistics would be proportionately too low or too high on that account. For that reason the percentage increases or decreases should be used with extreme care.

Another point of difficulty occurs in the interpretation of the figures of salaries and wages. It should be borne in mind that construction work associated with the expansion of the telephone plant is performed by employees of the telephone companies with the result that the number of reported telephone employees reflects the relative volume of construction work in progress on the date of the census.

TABLE 18.—SYSTEMS AND LINES, MILES OF SINGLE WIRE, AND TELEPHONES, THE BELL SYSTEM AND ALL OTHER SYSTEMS AND LINES: 1902–37

ITEM	Census year	System and lines (number)	Miles of single wire	Telephones (number)
All systems and lines	1937	[1] 50, 560	[1] 90, 831, 421	[1] 19, 453, 401
	1932	[2] 55, 378	87, 677, 586	17, 424, 406
	1927	60, 148	63, 836, 182	18, 522, 767
	1922	57, 253	37, 265, 958	14, 347, 395
	1917	53, 234	28, 827, 188	11, 716, 520
	1912	32, 233	20, 248, 326	8, 729, 592
	1907	22, 971	12, 999, 364	6, 118, 578
	1902	9, 136	4, 900, 451	2, 371, 044
Bell system	1937	[3] 26	81, 578, 393	15, 331, 983
	1932	[3] 25	80, 585, 879	13, 793, 229
	1927	[3] 25	56, 819, 036	13, 726, 056
	1922	[3] 26	30, 613, 687	9, 514, 813
	1917	145	23, 133, 718	7, 326, 858
	1912	176	15, 133, 186	5, 087, 027
	1907	175	8, 947, 266	3, 132, 063
	1902	44	3, 387, 924	1, 317, 178
All other systems and lines	1937	[1] 50, 534	[1] 9, 253, 028	[1] 4, 121, 418
	1932	[2] 55, 353	7, 091, 707	3, 631, 177
	1927	60, 123	7, 017, 146	4, 796, 711
	1922	57, 227	6, 652, 271	4, 832, 582
	1917	53, 089	5, 693, 470	4, 389, 662
	1912	32, 057	5, 115, 140	3, 642, 565
	1907	22, 796	4, 052, 098	2, 986, 515
	1902	9, 092	1, 512, 527	1, 053, 866

[1] Includes data for connecting lines having fewer than 5 telephones per line as follows: 11,759 lines; 29,201 telephones; and 44,249 miles of single wire (estimated).

[2] Includes 10,550 connecting lines for which separate reports were not secured; data for such lines, however, were included in reports of operating companies supplying switchboard service.

[3] Not including Bell-controlled companies; previous to 1922 these were included with the Bell system, but for 1937, 1932 1927, and 1922 they are classified under "All other systems and lines."

TABLE 19.—DETAILED STATISTICS, THE BELL SYSTEM AND ALL OTHER SYSTEMS REPORTING ANNUAL INCOMES OF $10,000 OR MORE: 1937, 1932, AND 1927

ITEM	TOTAL			BELL SYSTEM			ALL OTHER SYSTEMS		
	1937	1932	1927	1937	1932	1927	1937	1932	1927
Number of systems	846	918	1,368	26	25	25	820	893	1,343
Miles of single wire	89,571,035	86,484,493	62,277,246	81,578,393	80,585,879	56,819,036	7,992,642	5,898,614	5,458,210
Central offices	12,539	12,724	11,485	6,945	6,778	6,115	5,594	5,946	5,370
Telephones, total	18,291,184	16,284,231	16,712,495	15,331,983	13,793,229	13,726,056	2,959,201	2,491,002	2,986,439
Residence	11,325,865	10,057,281	10,498,801	9,292,917	8,277,469	8,332,814	2,032,948	1,779,812	2,165,987
Business	6,965,319	6,226,950	6,213,694	6,039,066	5,515,760	5,393,242	926,253	711,190	820,452
Calls originating with systems reporting, total	32,932,124,009	29,100,458,313	29,196,387,446	27,666,718,656	25,061,085,648	23,693,017,950	5,265,405,353	4,039,372,665	5,503,369,496
Employees, total	319,950	320,763	356,739	275,198	281,350	308,865	44,752	39,413	47,874
Male	124,464	123,756	124,963	107,559	110,068	107,710	16,905	13,688	17,253
Female	195,486	197,007	231,776	167,639	171,282	201,155	27,847	25,725	30,621
Salaries and wages	$510,694,592	$451,477,844	$475,840,320	$463,641,529	$414,341,515	$429,876,779	$47,053,063	$37,136,329	$45,963,541
Total operating revenues[1]	$1,167,441,596	$1,046,392,359	$996,911,752	$1,051,379,343	$956,354,529	$894,699,173	$116,062,253	$90,037,830	$102,212,579
Local service[2]	789,487,432	741,143,012	681,348,742	703,443,830	670,736,747	604,266,112	86,043,602	70,406,265	77,082,630
Toll service	348,309,171	281,047,593	294,625,256	321,502,556	263,147,955	271,174,270	26,806,615	17,899,638	23,450,986
Investment in plant and equipment	4,941,286,012	4,734,705,708	3,475,201,956	4,389,548,887	4,269,268,095	3,085,612,970	551,737,125	465,437,613	389,588,986

[1] Includes miscellaneous operating revenues as follows: 1937, $29,644,993; 1932, $24,201,754; and 1927, $20,937,754.

[2] Includes assessments levied by mutual companies as follows: 1937, $92,057; 1932, $55,462; and 1927, $127,231.

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TABLE 20.—MILES OF SINGLE WIRE, THE BELL SYSTEM AND ALL OTHER

	DIVISION AND STATE	TOTAL			BELL SYSTEM		
		1937 [1]	1932	1927	1937	1932	1927
1	UNITED STATES	90,787,172	87,677,586	63,836,182	81,578,393	80,585,879	56,819,036
	GEOGRAPHIC DIVISIONS:						
2	New England	7,777,976	7,682,588	5,586,569	6,014,153	7,594,519	5,458,003
3	Middle Atlantic	27,714,601	27,399,025	19,992,689	26,493,480	26,252,280	18,778,094
4	East North Central	21,650,970	21,574,370	15,223,410	18,841,953	19,528,507	13,317,189
5	West North Central	7,794,619	7,641,354	6,044,901	6,556,073	5,744,319	4,248,731
6	South Atlantic	6,674,717	5,760,130	4,244,852	6,067,362	5,212,400	3,747,502
7	East South Central	2,778,524	2,587,978	2,001,125	2,383,768	2,341,544	1,728,389
8	West South Central	5,397,748	5,028,077	3,619,976	4,945,914	4,513,772	3,145,614
9	Mountain	1,796,089	1,640,855	1,198,550	1,701,990	1,538,464	1,098,661
10	Pacific	9,201,928	8,363,209	5,924,110	8,573,700	7,860,074	5,296,853
	NEW ENGLAND:						
11	Maine	513,660	517,144	326,120	477,933	479,098	269,148
12	New Hampshire	293,852	288,990	211,448	288,742	283,796	182,481
13	Vermont	159,203	149,129	105,645	137,342	125,811	79,116
14	Massachusetts	4,162,775	4,099,247	3,165,833	4,157,848	4,094,636	3,161,787
15	Rhode Island	608,496	595,303	429,451	597,522	584,392	421,470
16	Connecticut	2,039,990	2,032,775	1,348,072	354,766	2,026,786	1,344,001
	MIDDLE ATLANTIC:						
17	New York	15,365,969	15,385,557	11,592,418	14,748,708	14,817,266	11,035,512
18	New Jersey	4,554,521	4,382,769	3,012,459	4,517,166	4,354,099	2,984,332
19	Pennsylvania	7,794,111	7,630,699	5,387,812	7,227,606	7,080,915	4,758,250
	EAST NORTH CENTRAL:						
20	Ohio	5,688,439	5,545,857	3,658,505	4,381,205	4,968,543	3,113,873
21	Indiana	2,286,516	2,223,608	1,558,005	1,752,247	1,694,850	1,072,281
22	Illinois	7,485,744	7,599,337	5,688,146	7,005,189	7,120,052	5,213,718
23	Michigan	4,246,680	4,263,778	2,967,217	4,032,885	4,062,517	2,790,346
24	Wisconsin	1,943,591	1,941,790	1,351,537	1,670,427	1,682,545	1,126,971
	WEST NORTH CENTRAL:						
25	Minnesota	1,680,935	1,610,192	1,422,716	1,465,000	932,925	792,880
26	Iowa	1,313,255	1,310,798	960,226	1,081,232	1,067,019	661,904
27	Missouri	2,683,699	2,620,741	1,988,764	2,453,137	2,395,139	1,800,538
28	North Dakota	175,277	161,225	140,923	127,126	105,807	85,565
29	South Dakota	188,286	177,521	154,601	149,124	62,049	48,681
30	Nebraska	727,487	736,632	606,425	408,106	418,459	336,138
31	Kansas	1,025,680	1,024,245	771,246	872,348	762,921	523,025
	SOUTH ATLANTIC:						
32	Delaware	245,518	210,300	118,539	245,441	209,956	118,093
33	Maryland	1,197,769	1,076,460	936,353	1,195,825	1,074,054	932,836
34	Dist. of Columbia	840,674	675,044	540,152	840,674	675,044	540,152
35	Virginia	1,028,179	876,581	615,286	942,810	793,941	551,234
36	West Virginia	462,646	445,781	349,899	421,908	402,820	305,138
37	North Carolina	772,503	706,829	392,455	588,023	549,248	269,256
38	South Carolina	335,114	290,599	171,678	306,832	260,171	142,882
39	Georgia	888,121	772,176	538,751	846,020	733,111	489,378
40	Florida	904,193	706,360	581,739	679,829	514,055	398,533
	EAST SOUTH CENTRAL:						
41	Kentucky	951,738	863,293	722,120	652,252	707,083	579,224
42	Tennessee	922,755	850,951	642,096	854,833	786,912	561,741
43	Alabama	590,061	530,087	421,927	568,821	561,587	388,831
44	Mississippi	313,970	293,647	214,982	307,862	285,962	198,593
	WEST SOUTH CENTRAL:						
45	Arkansas	360,189	366,944	318,868	320,804	324,010	273,513
46	Louisiana	760,503	694,367	560,262	750,706	685,935	551,477
47	Oklahoma	1,249,638	1,173,051	655,102	1,180,733	1,094,817	581,582
48	Texas	3,027,418	2,793,715	2,085,744	2,693,671	2,409,010	1,739,042
	MOUNTAIN:						
49	Montana	190,152	181,485	135,536	173,642	162,841	117,658
50	Idaho	146,380	134,096	111,940	117,043	105,575	87,070
51	Wyoming	89,402	85,233	60,622	79,422	73,522	51,252
52	Colorado	773,792	717,589	559,873	758,567	696,957	537,864
53	New Mexico	109,863	84,722	48,765	101,638	77,972	43,153
54	Arizona	180,443	158,261	89,305	176,869	153,227	83,672
55	Utah	254,367	231,113	167,393	250,341	227,357	159,109
56	Nevada	51,690	48,356	25,116	44,468	41,013	18,883
	PACIFIC:						
57	Washington	1,060,423	1,029,949	739,138	960,330	931,220	649,334
58	Oregon	638,654	599,201	490,820	578,946	533,473	436,654
59	California	7,502,851	6,734,059	4,694,152	7,034,424	6,395,381	4,210,865

[1] Does not include 44,249 miles of wire (estimated) on 11,759 connecting lines having fewer than 5 telephones per line.

[2] Percent not shown when increase is greater than 1,000.

SYSTEMS AND LINES, BY DIVISIONS AND STATES: 1937, 1932, AND 1927

ALL OTHER SYSTEMS AND LINES			PERCENT OF TOTAL						PERCENT INCREASE OR DECREASE (—)				
			Bell system			All other systems and lines			Bell system		All other systems and lines		
1937 [1]	1932	1927	1937	1932	1927	1937	1932	1927	1932–1937	1927–1932	1932–1937	1927–1932	
9,208,779	7,091,707	7,017,146	89.9	91.9	89.0	10.1	8.1	11.0	1.2	41.8	29.9	1.1	1
1,763,823	88,069	128,566	77.3	98.9	97.7	22.7	1.1	2.3	—20.8	39.1	(2)	—31.5	2
1,221,121	1,146,745	1,214,595	95.6	95.8	93.9	4.4	4.2	6.1	.9	39.8	6.5	—5.6	3
2,809,017	2,045,863	1,906,221	87.0	90.5	87.5	13.0	9.5	12.5	—3.5	46.6	37.3	7.3	4
1,238,546	1,897,035	1,796,170	84.1	75.2	70.3	15.9	24.8	29.7	14.1	35.2	—34.7	5.6	5
607,355	547,730	497,350	90.9	90.5	88.3	9.1	9.5	11.7	16.4	39.1	10.9	10.1	6
394,756	246,434	272,736	85.8	90.5	86.4	14.2	9.5	13.6	1.8	35.5	60.2	—9.6	7
451,834	514,305	474,362	91.6	89.8	86.9	8.4	10.2	13.1	9.6	43.5	—12.1	8.4	8
94,099	102,391	99,889	94.8	93.8	91.7	5.2	6.2	8.3	10.6	40.0	— 8.1	2.5	9
628,228	503,135	627,257	93.2	94.0	89.4	6.8	6.0	10.6	9.1	48.4	24.9	—19.8	10
35,727	38,046	56,972	93.0	92.6	82.5	7.0	7.4	17.5	—.2	78.0	—6.1	—33.2	11
5,110	5,194	28,967	98.3	98.2	86.3	1.7	1.8	13.7	1.7	55.5	—1.6	—82.1	12
21,861	23,318	26,529	86.3	84.4	74.9	13.7	15.6	25.1	9.2	59.0	—6.2	—12.1	13
4,927	4,611	4,046	99.9	99.9	99.9	.1	.1	.1	1.5	29.5	6.9	14.0	14
10,974	10,911	7,981	98.2	98.2	98.1	1.8	1.8	1.9	2.2	38.7	.6	36.7	15
1,685,224	5,989	4,071	17.4	99.7	99.7	82.6	.3	.3	—82.5	50.8	(2)	47.1	16
617,261	568,291	556,906	96.0	96.3	95.2	4.0	3.7	4.8	—.5	34.3	8.6	2.0	17
37,355	28,670	28,127	99.2	99.3	99.1	.8	.7	.9	3.7	45.9	30.3	1.9	18
566,505	549,784	629,562	92.7	92.8	88.3	7.3	7.2	11.7	2.1	48.8	3.0	—12.7	19
1,307,234	577,314	544,632	77.0	89.6	85.1	23.0	10.4	14.9	—11.8	59.6	126.4	6.0	20
534,269	528,758	485,724	76.6	76.2	68.8	23.4	23.8	31.2	3.4	58.1	1.0	8.9	21
480,555	479,285	474,428	93.6	93.7	91.7	6.4	6.3	8.3	—1.6	36.6	.3	1.0	22
213,795	201,261	176,871	95.0	95.3	94.0	5.0	4.7	6.0	—.7	45.6	6.2	13.8	23
273,164	259,245	224,566	85.9	86.6	83.4	14.1	13.4	16.6	—.7	49.3	5.4	15.4	24
215,935	677,267	629,836	87.2	57.9	55.7	12.8	42.1	44.3	57.0	17.7	—68.1	7.5	25
232,023	243,779	298,322	82.3	81.4	68.9	17.7	18.6	31.1	1.3	61.2	—4.8	—18.3	26
230,562	225,602	188,226	91.4	91.4	90.5	8.6	8.6	9.5	2.4	33.0	2.2	19.9	27
48,151	55,418	55,358	72.5	65.6	60.7	27.5	34.4	39.3	20.1	23.7	—13.1	.1	28
39,162	115,472	105,920	79.2	35.0	31.5	20.8	65.0	68.5	140.3	27.5	—66.1	9.0	29
319,381	318,173	270,287	56.1	56.8	55.4	43.9	43.2	44.6	—2.5	24.5	.4	17.7	30
153,332	261,324	248,221	85.1	74.5	67.8	14.9	25.5	32.2	14.3	45.9	—41.3	5.3	31
77	344	446	100.0	99.8	99.6	------	.2	.4	16.9	77.8	—77.6	—22.9	32
1,944	2,406	3,517	99.8	99.8	99.6	.2	.2	.4	11.3	15.1	—19.2	—31.6	33
------	------	------	100.0	100.0	100.0	------	------	------	24.5	25.0	------	------	34
85,369	82,640	64,052	91.7	90.6	89.6	8.3	9.4	10.4	18.8	44.0	3.3	29.0	35
40,738	42,961	44,761	91.2	90.4	87.2	8.8	9.6	12.8	4.7	32.0	—5.2	—4.0	36
184,480	157,581	123,199	76.1	77.7	68.6	23.9	22.3	31.4	7.1	104.0	17.1	27.9	37
28,282	30,428	28,796	91.6	89.5	83.2	8.4	10.5	16.8	17.9	82.1	—7.1	5.7	38
42,101	39,065	49,373	95.3	94.9	90.8	4.7	5.1	9.2	15.4	49.8	7.8	—20.9	39
224,364	192,305	183,206	75.2	72.8	68.5	24.8	27.2	31.5	32.2	29.0	16.7	5.0	40
299,486	156,210	142,896	68.5	81.9	80.2	31.5	18.1	19.8	—7.8	22.1	91.7	9.3	41
67,922	64,039	80,355	92.6	92.5	87.5	7.4	7.5	12.5	8.6	40.1	6.1	—20.3	42
21,240	18,500	33,096	96.4	96.8	92.2	3.6	3.2	7.8	1.3	44.4	14.8	—44.1	43
6,108	7,685	16,389	98.1	97.4	92.4	1.9	2.6	7.6	7.7	44.0	—20.5	—53.1	44
39,385	42,934	45,355	89.1	88.3	85.8	10.9	11.7	14.2	—1.0	18.5	—8.3	—5.3	45
9,797	8,432	8,785	98.7	98.8	98.4	1.3	1.2	1.6	9.4	24.4	16.2	—4.0	46
68,905	78,234	73,520	94.5	93.3	88.8	5.5	6.7	11.2	7.8	88.2	—11.9	6.4	47
333,747	384,705	346,702	89.0	86.2	83.4	11.0	13.8	16.6	11.8	38.5	—13.2	11.0	48
16,510	18,644	17,878	91.3	89.7	86.8	8.7	10.3	13.2	6.6	38.4	—11.4	4.3	49
29,337	28,521	24,870	80.0	78.7	77.8	20.0	21.3	22.2	10.9	21.3	2.9	14.7	50
9,980	11,711	9,370	88.8	86.3	84.5	11.2	13.7	15.5	8.0	43.5	—14.8	25.0	51
15,225	20,632	22,009	98.0	97.1	96.1	2.0	2.9	3.9	8.8	29.6	—26.2	—6.3	52
8,225	6,750	5,612	92.5	92.0	88.5	7.5	8.0	11.5	30.4	80.7	21.9	20.3	53
3,574	5,034	5,633	98.0	96.8	93.7	2.0	3.2	6.3	15.4	83.1	—29.0	—10.6	54
4,026	3,756	8,284	98.4	98.4	95.1	1.6	1.6	4.9	10.1	42.9	7.2	—54.7	55
7,222	7,343	6,233	86.0	84.8	75.2	14.0	15.2	24.8	8.4	117.2	—1.6	17.8	56
100,093	98,729	89,804	90.6	90.4	87.9	9.4	9.6	12.1	3.1	43.4	1.4	9.9	57
59,708	65,728	54,166	90.7	89.0	89.0	9.3	11.0	11.0	8.5	22.2	—9.2	21.3	58
468,427	338,678	483,287	93.8	95.0	89.7	6.2	5.0	10.3	10.0	51.9	38.3	—29.9	59

TABLE 21.—NUMBER OF TELEPHONES, THE BELL SYSTEM AND ALL OTHER

	DIVISION AND STATE	TOTAL			BELL SYSTEM		
		1937[1]	1932	1927	1937	1932	1927
1	UNITED STATES	19,424,200	17,424,406	18,522,767	15,331,983	13,793,229	13,726,056
	GEOGRAPHIC DIVISIONS:						
2	New England	1,606,031	1,513,939	1,548,931	1,222,418	1,463,853	1,453,469
3	Middle Atlantic	4,874,183	4,613,733	4,588,211	4,400,058	4,154,624	3,980,241
4	East North Central	4,608,168	4,034,931	4,589,751	3,323,890	2,985,651	3,177,753
5	West North Central	2,372,735	2,260,985	2,594,081	1,438,061	1,126,764	1,158,441
6	South Atlantic	1,554,122	1,250,882	1,262,222	1,275,712	999,758	951,422
7	East South Central	633,969	547,440	644,270	478,389	413,325	443,609
8	West South Central	1,194,910	1,002,389	1,149,357	953,157	760,339	787,547
9	Mountain	529,207	446,492	456,198	475,296	393,178	391,510
10	Pacific	2,050,875	1,753,615	1,689,746	1,765,002	1,495,737	1,382,064
	NEW ENGLAND:						
11	Maine	128,288	124,372	131,367	107,341	102,445	88,437
12	New Hampshire	83,661	79,506	83,066	79,120	74,190	61,430
13	Vermont	57,367	58,133	60,793	44,162	42,400	37,168
14	Massachusetts	871,319	832,740	867,888	868,980	830,319	864,951
15	Rhode Island	117,239	110,671	114,944	114,794	108,423	112,868
16	Connecticut	348,157	308,517	290,873	8,021	306,076	288,615
	MIDDLE ATLANTIC:						
17	New York	2,712,329	2,628,537	2,595,537	2,505,977	2,423,949	2,329,131
18	New Jersey	698,782	642,830	599,336	687,419	631,967	582,710
19	Pennsylvania	1,463,072	1,342,366	1,393,338	1,206,662	1,098,708	1,068,400
	EAST NORTH CENTRAL:						
20	Ohio	1,146,985	978,394	1,122,036	695,430	709,144	748,874
21	Indiana	504,568	444,996	552,249	242,910	207,413	227,218
22	Illinois	1,668,777	1,507,222	1,685,690	1,369,388	1,218,588	1,293,340
23	Michigan	759,600	621,958	711,315	658,662	528,488	587,228
24	Wisconsin	528,238	482,361	518,461	357,500	322,018	321,093
	WEST NORTH CENTRAL:						
25	Minnesota	499,771	443,682	487,611	345,966	190,397	195,402
26	Iowa	514,460	484,879	565,533	259,247	236,486	227,555
27	Missouri	616,177	592,153	657,946	428,997	399,696	414,683
28	North Dakota	72,007	69,241	86,198	38,033	32,028	34,820
29	South Dakota	85,900	88,798	107,641	54,540	22,506	21,865
30	Nebraska	242,143	247,551	295,274	103,223	100,021	107,028
31	Kansas	342,277	334,681	393,878	208,055	145,630	157,088
	SOUTH ATLANTIC:						
32	Delaware	41,225	32,537	28,901	41,162	32,257	28,396
33	Maryland	250,619	212,014	197,135	249,047	209,818	193,520
34	Dist. of Columbia	226,957	180,785	144,985	226,957	180,785	144,985
35	Virginia	237,941	196,956	183,698	183,326	142,293	122,912
36	West Virginia	155,873	134,150	146,677	125,439	101,506	103,885
37	North Carolina	179,161	143,710	160,507	98,051	76,002	81,208
38	South Carolina	71,459	57,215	64,616	54,231	42,687	44,922
39	Georgia	194,291	151,264	173,410	169,979	129,970	136,723
40	Florida	196,596	142,251	162,293	127,520	84,440	94,871
	EAST SOUTH CENTRAL:						
41	Kentucky	208,199	191,236	222,735	121,091	126,007	139,653
42	Tennessee	227,253	192,983	220,559	182,148	147,601	148,413
43	Alabama	125,292	100,813	121,115	107,292	83,636	92,094
44	Mississippi	73,225	62,408	79,861	67,858	56,081	63,449
	WEST SOUTH CENTRAL:						
45	Arkansas	93,421	86,676	118,178	68,902	61,030	73,535
46	Louisiana	166,130	132,735	137,610	158,821	127,185	128,995
47	Oklahoma	280,937	241,453	278,912	220,260	180,999	184,698
48	Texas	654,422	541,525	614,657	505,174	391,125	400,319
	MOUNTAIN:						
49	Montana	65,817	55,361	59,238	56,889	45,589	48,057
50	Idaho	61,927	49,201	54,822	44,903	34,266	36,476
51	Wyoming	32,320	28,346	28,049	28,016	23,430	22,902
52	Colorado	201,384	179,063	183,250	191,312	167,288	168,442
53	New Mexico	31,071	23,100	21,580	26,746	20,197	17,835
54	Arizona	47,405	36,064	33,194	45,411	34,136	30,638
55	Utah	71,589	60,082	63,106	69,103	57,618	58,824
56	Nevada	17,694	15,275	12,959	12,916	10,654	8,336
	PACIFIC:						
57	Washington	314,953	276,530	299,109	250,224	214,917	227,756
58	Oregon	180,501	166,639	185,171	139,522	124,860	135,085
59	California	1,555,421	1,310,446	1,205,466	1,375,256	1,155,960	1,019,223

[1] Does not include 29,201 telephones on 11,759 connecting lines having fewer than 5 telephones per line.
[2] Percent not shown when increase is greater than 1,000. See text, ch. IV, p. 28.

SYSTEMS AND LINES, BY DIVISIONS AND STATES: 1937, 1932, AND 1927

ALL OTHER SYSTEMS AND LINES			PERCENT OF TOTAL						PERCENT INCREASE OR DECREASE (—)				
			Bell system			All other systems and lines			Bell system		All other systems and lines		
1937[1]	1932	1927	1937	1932	1927	1937	1932	1927	1932–1937	1927–1932	1932–1937	1927–1932	
4,092,217	3,631,177	4,796,711	78.9	79.2	74.1	21.1	20.8	25.9	11.2	0.5	12.7	—24.3	1
383,613	50,086	95,462	76.1	96.7	93.8	23.9	3.3	6.2	—16.5	0.7	665.9	—47.5	2
474,125	459,109	607,970	90.3	90.0	86.7	9.7	10.0	13.3	5.9	4.4	3.3	—24.5	3
1,284,278	1,049,280	1,411,998	72.1	74.0	69.2	27.9	26.0	30.8	11.3	—6.0	22.4	—25.7	4
934,674	1,134,221	1,435,640	60.6	49.8	44.7	39.4	50.2	55.3	27.6	—2.7	—17.6	—21.0	5
278,410	251,124	310,800	82.1	79.9	75.4	17.9	20.1	24.6	27.6	5.1	10.9	—19.2	6
155,580	134,115	200,661	75.5	75.5	68.9	24.5	24.5	31.1	15.7	—6.8	16.0	—33.2	7
241,753	242,050	361,810	79.8	75.9	68.5	20.2	24.1	31.5	25.4	—3.5	—0.1	—33.1	8
53,911	53,314	64,688	89.8	88.1	85.8	10.2	11.9	14.2	20.9	.4	1.1	—17.6	9
285,873	257,878	307,682	86.1	85.3	81.8	13.9	14.7	18.2	18.0	8.2	10.9	—16.2	10
20,947	21,927	42,930	83.7	82.4	67.3	16.3	17.6	32.7	4.8	15.8	—4.5	—48.9	11
4,541	5,316	21,636	94.6	93.3	74.0	5.4	6.7	26.0	6.6	20.8	—14.6	—75.4	12
13,205	15,733	23,625	77.0	72.9	61.1	23.0	27.1	38.9	4.2	14.1	—16.1	—33.4	13
2,339	2,421	2,937	99.7	99.7	99.7	.3	.3	.3	4.7	—4.0	—3.4	—17.6	14
2,445	2,248	2,076	97.9	98.0	98.2	2.1	2.0	1.8	5.9	—3.9	8.8	8.3	15
340,136	2,441	2,258	2.3	99.2	99.2	97.7	.8	.8	—97.4	6.0	(2)	8.1	16
206,352	204,588	266,406	92.4	92.2	89.7	7.6	7.8	10.3	3.4	4.1	.9	—23.2	17
11,363	10,863	16,626	98.4	98.3	97.2	1.6	1.7	2.8	8.8	8.5	4.6	—34.7	18
256,410	243,658	324,938	82.5	81.8	76.7	17.5	18.2	23.3	9.8	2.8	5.2	—25.0	19
451,555	269,250	373,162	60.6	72.5	66.7	39.4	27.5	33.3	—1.9	—5.3	67.7	—27.8	20
261,658	237,583	325,031	48.1	46.6	41.1	51.9	53.4	58.9	17.1	—8.7	10.1	—26.9	21
299,389	288,634	392,350	82.1	80.8	76.7	17.9	19.2	23.3	12.4	—5.8	3.7	—26.4	22
100,938	93,470	124,087	86.7	85.0	82.6	13.3	15.0	17.4	24.6	—10.0	8.0	—24.7	23
170,738	160,343	197,368	67.7	66.8	61.9	32.3	33.2	38.1	11.0	.3	6.5	—18.8	24
153,805	253,285	292,209	69.2	42.9	40.1	30.8	57.1	59.9	81.7	—2.6	—39.3	—13.3	25
255,213	248,393	337,978	50.4	48.8	40.2	49.6	51.2	59.8	9.6	3.9	2.7	—26.5	26
187,180	192,457	243,263	69.6	67.5	63.0	30.4	32.5	37.0	7.3	—3.6	—2.7	—20.9	27
33,974	37,213	51,378	52.8	46.3	40.4	47.2	53.7	59.6	18.7	—8.0	—8.7	—27.6	28
31,360	66,292	85,776	63.5	25.3	20.3	36.5	74.7	79.7	142.3	2.9	—52.7	—22.7	29
138,920	147,530	188,246	42.6	40.4	36.2	57.4	59.6	63.8	3.2	—6.5	—5.8	—21.6	30
134,222	189,051	236,790	60.8	43.5	39.9	39.2	56.5	60.1	42.9	—7.3	—29.0	—20.2	31
63	280	505	99.8	99.1	98.3	.2	.9	1.7	27.6	13.6	—77.5	—44.6	32
1,572	2,196	3,615	99.4	99.0	98.2	.6	1.0	1.8	18.7	8.4	—28.4	—39.3	33
----------	----------	----------	100.0	100.0	100.0	-------	-------	-------	25.5	24.7	-------	-------	34
54,615	54,663	60,786	77.0	72.2	66.9	23.0	27.8	33.1	28.8	15.8	—.1	—10.1	35
30,434	32,644	42,792	80.5	75.7	70.8	19.5	24.3	29.2	23.6	—2.3	—6.8	—23.7	36
81,110	67,708	79,299	54.7	52.9	50.6	45.3	47.1	49.4	29.0	—6.4	19.8	—14.6	37
17,228	14,528	19,694	75.9	74.6	69.5	24.1	25.4	30.5	27.0	—5.0	18.6	—26.2	38
24,312	21,294	36,687	87.5	85.9	78.8	12.5	14.1	21.2	30.8	—4.9	14.2	—42.0	39
69,076	57,811	67,422	64.9	59.4	58.5	35.1	40.6	41.5	51.0	—11.0	19.5	—14.3	40
87,108	65,229	83,082	58.2	65.9	62.7	41.8	34.1	37.3	—3.9	—9.8	33.5	—21.5	41
45,105	45,382	72,146	80.2	76.5	67.3	19.8	23.5	32.7	23.4	—.5	—.6	—37.1	42
18,000	17,177	29,021	85.6	83.0	76.0	14.4	17.0	24.0	28.3	—9.2	4.8	—40.8	43
5,367	6,327	16,412	92.7	89.9	79.4	7.3	10.1	20.6	21.0	—11.6	—15.2	—61.4	44
24,519	25,646	44,643	73.8	70.4	62.2	26.2	29.6	37.8	12.9	—17.0	—4.4	—42.6	45
7,309	5,550	8,615	95.6	95.8	93.7	4.4	4.2	6.3	24.9	—1.4	31.7	—35.6	46
60,677	60,454	94,214	78.4	75.0	66.2	21.6	25.0	33.8	21.7	—2.0	.4	—35.8	47
149,248	150,400	214,338	77.2	72.2	65.1	22.8	27.8	34.9	29.2	—2.3	—.8	—29.8	48
8,928	9,772	11,181	86.4	82.3	81.1	13.6	17.7	18.9	24.8	—5.1	—8.6	—12.6	49
17,024	14,935	18,346	72.5	69.6	66.5	27.5	30.4	33.5	31.0	—6.1	14.0	—18.6	50
4,304	4,916	5,147	86.7	82.7	81.6	13.3	17.3	18.4	19.6	2.3	—12.4	—4.5	51
10,072	11,775	14,808	95.0	93.4	91.9	5.0	6.6	8.1	14.4	—.7	—14.5	—20.5	52
4,325	2,903	3,745	86.1	87.4	82.6	13.9	12.6	17.4	32.4	13.2	49.0	—22.5	53
1,994	1,928	2,556	95.8	94.7	92.3	4.2	5.3	7.7	33.0	11.4	3.4	—24.6	54
2,486	2,464	4,282	96.5	95.9	93.2	3.5	4.1	6.8	19.9	—2.1	.9	—42.5	55
4,778	4,621	4,623	73.0	69.7	64.3	27.0	30.3	35.7	21.2	27.8	3.4	(2)	56
64,729	61,613	71,353	79.4	77.7	76.1	20.6	22.3	23.9	16.4	—5.6	5.1	—13.7	57
40,979	41,779	50,086	77.3	74.9	73.0	22.7	25.1	27.0	11.7	—7.6	—1.9	—16.6	58
180,165	154,486	186,243	88.4	88.2	84.6	11.6	11.8	15.4	19.0	13.4	16.6	—17.1	59

[2] Less than 1/10 of 1 percent.

TABLE 22.—NUMBER OF CENTRAL OFFICES, THE BELL SYSTEM AND ALL OTHER OPERATING COMPANIES, GROUPED ACCORDING TO ANNUAL INCOMES BY DIVISIONS AND STATES: 1937, 1932, AND 1927

DIVISION AND STATE	TOTAL			BELL SYSTEM			ALL OTHER OPERATING COMPANIES								
							Total			Reporting annual incomes of—					
										$10,000 or more			Less than $10,000		
	1937	1932	1927	1937	1932	1927	1937	1932	1927	1937	1932	1927	1937	1932	1927
UNITED STATES	18,967	19,228	20,227	6,945	6,778	6,115	12,022	12,450	14,112	5,594	5,946	5,370	6,428	6,504	8,742
GEOGRAPHIC DIVISIONS:															
New England	922	927	921	597	674	566	325	253	355	205	134	211	120	119	144
Middle Atlantic	2,032	2,067	2,144	1,171	1,163	959	861	904	1,185	538	563	686	323	341	499
East North Central	4,215	4,275	4,447	1,018	1,044	948	3,197	3,231	3,499	1,707	1,703	1,565	1,490	1,528	1,934
West North Central	4,493	4,508	4,806	983	753	718	3,510	3,755	4,088	1,361	1,709	1,441	2,149	2,046	2,647
South Atlantic	1,706	1,763	1,868	681	654	589	1,025	1,109	1,279	516	494	426	509	615	853
East South Central	1,275	1,325	1,502	545	540	520	730	785	982	195	196	160	535	589	822
West South Central	2,178	2,241	2,409	669	680	640	1,509	1,561	1,769	694	777	511	815	784	1,258
Mountain	852	835	877	517	513	474	335	322	403	84	90	93	251	232	310
Pacific	1,294	1,287	1,253	764	757	701	530	530	552	294	280	277	236	250	275
NEW ENGLAND:															
Maine	239	242	247	115	114	81	124	128	166	55	55	93	69	73	73
New Hampshire	131	132	133	105	105	61	26	27	72	9	9	46	17	18	26
Vermont	133	136	142	67	56	42	66	80	100	37	57	62	29	23	38
Massachusetts	291	290	281	281	280	270	10	10	11	6	6	5	4	4	6
Rhode Island	32	33	29	28	29	27	4	4	2	4	4	2	----	----	----
Connecticut	96	94	89	1	90	85	95	4	4	94	3	3	1	1	1
MIDDLE ATLANTIC:															
New York	946	961	932	614	610	434	332	351	498	195	207	298	137	144	200
New Jersey	218	214	211	190	187	163	28	27	48	23	22	35	5	5	13
Pennsylvania	868	892	1,001	367	366	362	501	526	639	320	334	353	181	192	286
EAST NORTH CENTRAL:															
Ohio	926	959	1,024	218	248	223	708	711	801	471	417	428	237	294	373
Indiana	796	801	863	106	106	90	690	695	773	326	335	298	364	360	475
Illinois	1,191	1,205	1,265	289	288	266	902	917	999	472	486	457	430	431	542
Michigan	637	640	638	294	289	257	343	351	381	163	168	145	180	183	236
Wisconsin	665	670	657	111	113	112	554	557	545	275	297	237	279	260	308

West North Central:															
Minnesota	690	687	738	175	109	106	515	578	632	171	251	229	344	327	403
Iowa	970	971	996	167	169	136	803	802	860	286	292	301	517	510	559
Missouri	917	895	997	119	119	134	798	776	863	320	368	205	478	408	658
North Dakota	347	348	380	115	99	96	232	249	284	69	86	66	163	163	218
South Dakota	289	286	316	132	49	44	157	237	272	54	138	149	103	99	123
Nebraska	525	534	555	113	113	110	412	421	445	256	264	235	156	157	210
Kansas	755	787	824	162	95	92	593	692	732	205	310	256	388	382	476
South Atlantic:															
Delaware	24	23	25	24	23	23			2						2
Maryland	146	143	141	140	132	128	6	11	13	1	1	1	5	10	12
District of Columbia	16	14	12	16	14	12									
Virginia	311	324	336	92	85	66	219	239	270	99	104	85	120	135	185
West Virginia	295	325	339	99	94	81	196	231	258	55	23	44	141	208	214
North Carolina	297	308	331	60	59	57	237	249	274	166	173	127	71	76	147
South Carolina	145	149	156	59	60	59	86	89	97	41	42	17	45	47	80
Georgia	311	318	359	130	126	108	181	192	251	71	72	71	110	120	180
Florida	161	159	169	61	61	55	100	98	114	83	79	81	17	19	33
East South Central:															
Kentucky	419	437	520	153	155	161	266	282	359	88	96	74	178	186	285
Tennessee	401	413	487	165	153	146	236	260	341	34	36	58	202	224	283
Alabama	234	254	263	86	87	79	148	167	184	40	33	17	108	134	167
Mississippi	221	221	232	141	145	134	80	76	98	33	31	11	47	45	87
West South Central:															
Arkansas	290	299	337	89	97	98	201	202	239	77	85	54	124	117	185
Louisiana	175	157	166	107	106	101	68	51	65	33	17	14	35	34	51
Oklahoma	540	570	593	155	160	154	385	410	439	124	158	88	261	252	351
Texas	1,173	1,215	1,313	318	317	287	855	898	1,026	460	517	355	395	381	671
Mountain:															
Montana	152	152	163	85	83	75	67	69	88	9	10	13	58	59	75
Idaho	127	126	130	63	64	64	64	62	66	29	31	27	35	31	39
Wyoming	84	79	82	41	41	39	43	38	43	5	6	5	38	32	38
Colorado	248	240	250	172	169	163	76	71	87	6	6	9	70	65	78
New Mexico	73	69	76	43	42	37	30	27	39	5	4	2	25	23	37
Arizona	49	50	52	34	34	32	15	16	20	10	10	11	5	6	9
Utah	80	80	87	55	56	45	25	24	42	10	12	15	15	12	27
Nevada	39	39	37	24	24	19	15	15	18	10	11	11	5	4	7
Pacific:															
Washington	307	305	304	125	120	118	182	185	186	94	91	82	88	94	104
Oregon	243	242	240	91	88	83	152	154	157	61	60	60	91	94	97
California	744	740	709	548	549	500	196	191	209	139	129	135	57	62	74

TABLE 23.—NUMBER OF ORIGINATING CALLS AND AVERAGE NUMBER OF CALLS PER TELEPHONE PER DAY, THE BELL SYSTEM AND ALL OTHER SYSTEMS, BY DIVISIONS AND STATES: 1937

DIVISION AND STATE	Total	Bell system	All other systems	PERCENT OF TOTAL		CALLS PER TELEPHONE PER DAY [1]	
				Bell	All other	Bell	All other
UNITED STATES	33, 618, 333, 461	27, 666, 718, 656	5, 951, 614, 805	82.3	17.7	5.6	4.5
GEOGRAPHIC DIVISIONS:							
New England	2, 575, 790, 436	1, 962, 587, 076	613, 203, 360	76.2	23.8	4.9	4.9
Middle Atlantic	7, 273, 090, 050	6, 570, 480, 588	702, 609, 462	90.3	9.7	4.6	4.6
East North Central	7, 247, 918, 666	5, 314, 947, 972	1, 932, 970, 694	73.3	26.7	4.9	4.6
West North Central	4, 106, 176, 942	3, 023, 631, 576	1, 082, 545, 366	73.6	26.4	6.5	3.6
South Atlantic	3, 160, 557, 459	2, 618, 890, 752	541, 666, 707	82.9	17.1	6.3	6.0
East South Central	1, 630, 047, 081	1, 393, 777, 188	236, 269, 893	85.5	14.5	9.0	4.7
West South Central	3, 091, 086, 499	2, 739, 069, 228	352, 017, 271	88.6	11.4	8.8	4.5
Mountain	968, 170, 806	904, 483, 680	63, 687, 126	93.4	6.6	5.9	3.6
Pacific	3, 565, 495, 522	3, 138, 850, 596	426, 644, 926	88.0	12.0	5.5	4.6
NEW ENGLAND:							
Maine	201, 848, 321	185, 344, 560	16, 503, 761	91.8	8.2	5.3	2.4
New Hampshire	120, 808, 598	115, 196, 616	5, 611, 982	95.4	4.6	4.5	3.8
Vermont	84, 971, 337	70, 600, 812	14, 370, 525	83.1	16.9	4.9	3.3
Massachusetts	1, 406, 759, 384	1, 403, 857, 704	2, 901, 680	99.8	0.2	5.0	3.8
Rhode Island	179, 975, 368	176, 003, 148	3, 972, 220	97.8	2.2	4.7	5.0
Connecticut	581, 427, 428	11, 584, 236	569, 843, 192	2.0	98.0	4.4	5.2
MIDDLE ATLANTIC:							
New York	4, 226, 700, 511	3, 935, 407, 356	291, 293, 155	93.1	6.9	4.8	4.3
New Jersey	938, 471, 510	927, 443, 424	11, 028, 086	98.8	1.2	4.2	3.0
Pennsylvania	2, 107, 918, 029	1, 707, 629, 808	400, 288, 221	81.0	19.0	4.4	4.8
EAST NORTH CENTRAL:							
Ohio	1, 986, 770, 795	1, 197, 112, 152	789, 658, 643	60.3	39.7	5.3	5.4
Indiana	892, 809, 837	476, 906, 412	415, 903, 425	53.4	46.6	6.0	4.9
Illinois	2, 388, 330, 556	1, 980, 732, 060	407, 598, 496	82.9	17.1	4.4	4.2
Michigan	1, 196, 028, 745	1, 083, 483, 372	112, 545, 373	90.6	9.4	5.1	3.4
Wisconsin	783, 978, 733	576, 713, 976	207, 264, 757	73.6	26.4	5.0	3.7
WEST NORTH CENTRAL:							
Minnesota	890, 071, 798	734, 617, 692	155, 454, 106	82.5	17.5	6.5	3.1
Iowa	792, 753, 162	517, 996, 464	274, 756, 698	65.3	34.7	6.1	3.3
Missouri	1, 207, 181, 550	964, 789, 368	242, 392, 182	79.9	20.1	6.9	4.0
North Dakota	111, 296, 522	76, 360, 716	34, 935, 806	68.6	31.4	6.2	3.2
South Dakota	118, 523, 613	93, 495, 492	25, 028, 121	78.9	21.1	5.3	2.5
Nebraska	417, 677, 955	208, 692, 744	208, 985, 211	50.0	50.0	6.2	4.6
Kansas	568, 672, 342	427, 679, 100	140, 993, 242	75.2	24.8	6.3	3.2
SOUTH ATLANTIC:							
Delaware	71, 171, 940	71, 171, 940	------	100.0	------	5.3	------
Maryland	367, 909, 399	367, 077, 276	832, 123	99.8	0.2	4.5	1.6
Dist. of Columbia	305, 436, 036	305, 436, 036	------	100.0	------	4.1	------
Virginia	509, 886, 545	430, 474, 224	79, 412, 321	84.4	15.6	7.2	4.5
West Virginia	291, 445, 847	256, 138, 596	35, 307, 251	87.9	12.1	6.3	3.6
North Carolina	491, 578, 178	271, 547, 820	220, 030, 358	55.2	44.8	8.5	8.3
South Carolina	187, 007, 637	154, 530, 660	32, 476, 977	82.6	17.4	8.8	5.8
Georgia	554, 539, 645	517, 159, 440	37, 380, 205	93.3	6.7	9.4	4.7
Florida	381, 582, 232	245, 354, 760	136, 227, 472	64.3	35.7	5.9	6.1
EAST SOUTH CENTRAL:							
Kentucky	429, 845, 470	291, 416, 484	138, 428, 986	67.8	32.2	7.4	4.9
Tennessee	652, 046, 547	586, 542, 156	65, 504, 391	90.0	10.0	9.9	4.5
Alabama	356, 745, 351	328, 151, 028	28, 594, 323	92.0	8.0	9.4	4.9
Mississippi	191, 409, 713	187, 667, 520	3, 742, 193	98.0	2.0	8.5	2.1
WEST SOUTH CENTRAL:							
Arkansas	209, 608, 432	174, 688, 788	34, 919, 644	83.3	16.7	7.8	4.4
Louisiana	495, 316, 556	487, 864, 632	7, 451, 924	98.5	1.5	9.5	3.1
Oklahoma	656, 015, 138	590, 145, 384	65, 869, 754	90.0	10.0	8.2	3.3
Texas	1, 730, 146, 373	1, 486, 370, 424	243, 775, 949	85.9	14.1	9.1	5.0
MOUNTAIN:							
Montana	113, 874, 195	102, 990, 744	10, 883, 451	90.4	9.6	5.6	3.8
Idaho	115, 856, 292	91, 598, 604	24, 257, 688	79.1	20.9	6.3	4.4
Wyoming	59, 497, 526	54, 414, 816	5, 082, 710	91.5	8.5	6.0	3.6
Colorado	343, 780, 771	339, 129, 408	4, 651, 363	98.6	1.4	5.5	1.4
New Mexico	59, 682, 004	53, 054, 208	6, 627, 796	88.9	11.1	6.1	4.7
Arizona	92, 776, 647	90, 021, 084	2, 755, 563	97.0	3.0	6.1	4.3
Utah	154, 547, 050	151, 376, 604	3, 170, 446	97.9	2.1	6.7	3.9
Nevada	28, 156, 321	21, 898, 212	6, 258, 109	77.8	22.2	5.2	4.0
PACIFIC:							
Washington	603, 276, 369	506, 092, 320	97, 184, 049	83.9	16.1	6.2	4.6
Oregon	329, 763, 098	286, 338, 468	43, 424, 630	86.8	13.2	6.3	3.3
California	2, 632, 456, 055	2, 346, 419, 808	286, 036, 247	89.1	10.9	5.2	4.9

[1] Computed on the basis of 325 days to the year.

TABLE 24.—PRINCIPAL STATISTICS, OPERATING COMPANIES REPORTING ANNUAL INCOMES OF LESS THAN $10,000, BY DIVISIONS AND STATES: 1937

DIVISION AND STATE	Companies reporting	Miles of single wire	Central offices	TELEPHONES			Calls originating with systems reporting	Total operating revenues including assessments of mutual companies	EMPLOYEES						Salaries and wages	Investment in plant and equipment
				Total	Residence	Business			June 30, 1937			Dec. 31, 1937				
									Total	Male	Female	Total	Male	Female		
UNITED STATES	5,848	752,424	6,428	738,629	640,422	98,207	686,209,452	[1] $11,882,189	13,212	5,258	7,954	13,045	5,147	7,898	$5,945,417	$40,071,321
GEOGRAPHIC DIVISIONS:																
New England	103	15,596	120	12,620	11,344	1,276	9,300,742	281,767	312	144	168	311	139	172	150,835	812,394
Middle Atlantic	278	43,375	323	34,945	29,727	5,218	28,073,605	792,340	900	373	527	906	374	532	444,704	2,762,098
East North Central	1,354	227,213	1,490	211,893	189,794	22,099	190,018,841	3,183,217	3,797	1,626	2,171	3,730	1,583	2,147	1,712,829	11,424,942
West North Central	1,987	263,000	2,149	294,564	257,109	37,455	283,063,994	4,226,626	4,696	1,846	2,850	4,640	1,796	2,844	2,128,477	14,404,252
South Atlantic	419	45,497	509	42,766	35,569	7,197	37,580,640	747,143	877	346	531	877	345	532	353,666	2,346,481
East South Central	511	47,781	535	45,979	39,493	6,486	41,657,427	617,159	751	289	462	730	277	453	261,055	2,107,690
West South Central	743	64,274	815	59,427	48,629	10,798	61,474,675	1,100,810	991	305	686	995	305	690	439,946	3,421,923
Mountain	237	20,643	251	15,301	11,542	3,759	15,780,436	405,157	404	144	260	384	141	243	188,720	1,262,607
Pacific	216	25,045	236	21,134	17,215	3,919	19,259,092	527,970	484	185	299	472	187	285	265,185	1,528,934
NEW ENGLAND:																
Maine	63	9,106	69	7,458	6,626	832	4,654,261	152,391	186	90	96	184	87	97	83,931	473,034
New Hampshire	16	2,167	17	1,826	1,636	190	1,805,898	45,976	37	15	22	40	17	23	20,963	112,006
Vermont	19	3,597	29	2,762	2,537	225	2,505,568	65,328	67	32	35	66	29	37	34,273	197,867
Massachusetts	4	649	4	471	442	29	265,015	[2] 18,072	20	6	14	19	5	14	[2] 11,668	[2] 29,487
Rhode Island																
Connecticut	1	77	1	103	103		70,000	(2)	2	1	1	2	1	1	(2)	(2)
MIDDLE ATLANTIC:																
New York	125	17,632	137	17,074	14,468	2,606	14,085,216	[2] 416,829	399	159	240	397	158	239	[2] 230,113	[2] 1,582,779
New Jersey	2	2,404	5	513	302	211	350,000	(2)	15	3	12	15	3	12	(2)	(2)
Pennsylvania	151	23,339	181	17,358	14,957	2,401	13,638,389	375,511	486	211	275	494	213	281	214,591	1,179,319
EAST NORTH CENTRAL:																
Ohio	211	36,565	237	32,711	29,686	3,025	34,308,655	519,029	611	275	336	592	264	328	273,342	1,992,252
Indiana	343	46,708	364	51,382	47,115	4,267	46,614,557	714,016	842	337	505	837	337	500	365,379	2,323,313
Illinois	393	57,717	430	63,244	57,128	6,116	55,035,394	788,380	1,077	396	681	1,061	382	679	435,923	2,841,556
Michigan	174	27,147	180	22,303	19,706	2,597	17,606,749	372,896	405	193	212	401	194	207	187,164	1,001,894
Wisconsin	233	59,076	279	42,253	36,159	6,094	36,453,486	788,896	862	425	437	839	406	433	451,021	3,265,927
WEST NORTH CENTRAL:																
Minnesota	316	54,050	344	45,226	37,924	7,302	42,642,383	769,322	795	333	462	788	327	461	402,003	3,248,372
Iowa	493	59,993	517	92,036	82,394	9,642	90,220,489	1,217,660	1,236	509	727	1,215	489	726	578,143	3,167,394
Missouri	449	45,196	478	56,751	50,363	6,388	55,661,603	621,854	852	287	565	835	274	561	313,274	2,322,614
North Dakota	134	14,061	163	11,066	9,130	1,936	8,238,397	218,605	241	94	147	238	90	148	113,395	899,909
South Dakota	91	13,969	103	11,658	9,909	1,749	9,461,886	206,062	231	114	117	229	112	117	102,236	711,659
Nebraska	148	25,502	156	21,315	18,024	3,291	20,790,524	372,360	397	163	234	397	162	235	191,890	1,649,043
Kansas	356	50,229	388	56,512	49,365	7,147	56,048,712	820,763	944	346	598	938	342	596	427,536	2,405,261

[1] Includes $120,657 miscellaneous revenue; and $981,596 assessments levied by mutual companies.

[2] To prevent disclosure, financial data for the following States have been combined: Connecticut with Massachusetts, and New Jersey with New York.

TABLE 24.—PRINCIPAL STATISTICS, OPERATING COMPANIES REPORTING ANNUAL INCOMES OF LESS THAN $10,000, BY DIVISIONS AND STATES: 1937—Continued

DIVISION AND STATE	Companies reporting	Miles of single wire	Central offices	TELEPHONES			Calls originating with systems reporting	Total operating revenues including assessments of mutual companies	EMPLOYEES						Salaries and wages	Investment in plant and equipment
				Total	Residence	Business			June 30, 1937			Dec. 31, 1937				
									Total	Male	Female	Total	Male	Female		
SOUTH ATLANTIC:																
Delaware																
Maryland	5	452	5	317	270	47	197,123	9,132	11	5	6	11	5	6	3,699	23,365
Dist. of Columbia																
Virginia	95	11,537	120	10,875	9,628	1,247	9,836,001	140,160	214	90	124	210	86	124	71,841	483,009
West Virginia	99	11,889	141	14,909	13,417	1,492	9,669,601	150,779	225	92	133	227	92	135	79,869	524,312
North Carolina	62	6,454	71	5,380	4,251	1,129	5,552,261	119,678	130	53	77	133	56	77	57,997	401,987
South Carolina	43	4,712	45	3,419	2,488	931	4,022,494	95,074	90	35	55	86	32	54	47,763	281,739
Georgia	100	7,470	110	6,996	4,970	2,026	7,151,935	191,705	178	58	120	183	63	120	77,602	447,156
Florida	15	2,983	17	870	545	325	1,151,225	40,615	29	13	16	27	11	16	14,895	184,913
EAST SOUTH CENTRAL:																
Kentucky	170	14,986	178	16,774	14,793	1,981	14,120,984	166,032	255	105	150	251	100	151	79,679	563,919
Tennessee	197	22,388	202	19,629	17,410	2,219	18,095,518	220,563	271	112	159	271	112	159	91,162	959,008
Alabama	99	8,380	108	7,876	5,929	1,947	7,714,508	192,455	189	60	129	172	53	119	79,709	488,398
Mississippi	45	2,027	47	1,700	1,361	339	1,726,417	38,109	36	12	24	36	12	24	10,505	96,365
WEST SOUTH CENTRAL:																
Arkansas	110	6,248	124	6,571	5,040	1,531	6,704,290	143,770	124	30	94	123	31	92	46,599	305,192
Louisiana	31	2,545	35	2,519	1,797	722	2,657,150	86,825	82	27	55	83	27	56	41,852	150,832
Oklahoma	237	18,315	261	21,198	17,052	4,146	24,347,670	404,303	354	118	236	361	119	242	173,402	1,109,715
Texas	365	37,166	395	29,139	24,740	4,399	27,765,565	465,912	431	130	301	428	128	300	178,093	1,856,184
MOUNTAIN:																
Montana	57	4,288	58	3,177	2,332	845	3,019,141	95,673	99	39	60	98	38	60	49,003	310,889
Idaho	33	2,782	35	2,965	2,446	519	4,116,976	80,347	74	30	44	68	24	44	31,591	165,028
Wyoming	32	2,923	38	1,599	1,166	433	2,182,532	49,710	48	9	39	32	8	24	15,953	168,480
Colorado	69	5,614	70	4,460	3,592	868	2,875,497	78,843	91	30	61	96	34	62	40,906	243,317
New Mexico	22	1,481	25	1,153	724	429	1,129,000	43,737	35	15	20	32	13	19	15,626	107,481
Arizona	5	1,218	5	530	164	366	731,319	17,881	13	4	9	13	4	9	15,145	169,020
Utah	14	1,916	15	1,259	1,028	231	1,631,946	31,369	34	12	22	36	15	21	15,183	81,367
Nevada	5	421	5	158	90	68	94,025	7,597	10	5	5	9	5	4	5,313	17,025
PACIFIC:																
Washington	81	9,958	88	8,924	7,237	1,687	9,243,445	229,167	205	76	129	199	79	120	123,326	638,362
Oregon	82	7,811	91	7,859	6,730	1,129	6,743,725	149,799	172	75	97	167	73	94	78,090	375,972
California	53	7,276	57	4,351	3,248	1,103	3,271,922	149,004	107	34	73	106	35	71	63,769	514,600

TABLE 25.—SUMMARY—CONNECTING LINES BY DIVISIONS AND STATES: 1937 [1]

DIVISION AND STATE	Connecting lines (number)	Miles of single wire	TELEPHONES (NUMBER)			Receipts including assessments of mutual companies [2]	Investment
			Total	Residence	Business		
United States	32,107	463,713	394,387	383,646	10,741	$704,587	$18,846,387
GEOGRAPHIC DIVISIONS:							
New England	77	1,800	1,343	1,295	48	8,490	102,586
Middle Atlantic	1,078	17,588	15,975	15,295	680	82,878	892,795
East North Central	4,383	61,825	59,129	58,177	952	158,942	2,330,538
West North Central	13,124	191,830	183,626	180,937	2,689	242,202	7,474,147
South Atlantic	1,605	21,489	17,466	16,438	1,028	28,550	793,477
East South Central	2,842	25,337	20,691	20,020	671	21,331	731,619
West South Central	4,421	54,831	41,367	39,435	1,932	45,602	2,266,799
Mountain	1,165	27,812	13,805	12,862	943	25,274	1,279,469
Pacific	3,412	61,201	40,985	39,187	1,798	91,818	2,974,957
NEW ENGLAND:							
Maine	55	1,101	910	885	25	3,241	63,160
New Hampshire	7	240	176	169	7	2,554	5,126
Vermont	12	178	168	166	2	[3] 2,695	[3] 34,300
Massachusetts	3	281	89	75	14	(3)	(3)
Rhode Island	----------	----------	----------	----------	----------	----------	----------
Connecticut	----------	----------	----------	----------	----------	----------	----------
MIDDLE ATLANTIC:							
New York	263	3,651	3,558	3,492	66	[3] 20,185	[3] 177,640
New Jersey	9	64	81	67	14	(3)	(3)
Pennsylvania	806	13,873	12,336	11,736	600	62,693	715,155
EAST NORTH CENTRAL:							
Ohio	384	3,366	4,172	4,118	54	4,488	135,701
Indiana	626	5,546	6,551	6,498	53	14,117	184,258
Illinois	1,935	17,526	22,537	22,340	197	18,037	664,552
Michigan	928	15,650	12,034	11,812	222	29,322	518,573
Wisconsin	510	19,737	13,835	13,409	426	92,978	827,454
WEST NORTH CENTRAL:							
Minnesota	1,656	43,068	36,823	36,134	689	68,244	2,100,761
Iowa	2,876	31,750	44,379	43,904	475	46,500	1,186,920
Missouri	4,067	36,296	39,012	38,549	463	30,802	1,107,286
North Dakota	622	15,499	9,926	9,744	182	16,323	822,857
South Dakota	518	13,625	10,769	10,536	233	26,770	512,549
Nebraska	1,211	25,262	18,576	18,325	251	26,899	915,063
Kansas	2,174	26,330	24,141	23,745	396	26,664	828,711
SOUTH ATLANTIC:							
Delaware	8	77	63	53	10	140	2,850
Maryland	64	875	751	724	27	1,145	40,801
District of Columbia	----------	----------	----------	----------	----------	----------	----------
Virginia	352	5,318	5,864	5,558	306	6,190	205,818
West Virginia	205	2,628	2,940	2,803	137	6,322	114,880
North Carolina	518	6,492	4,451	4,163	288	11,264	212,173
South Carolina	165	2,382	1,171	1,124	47	809	90,314
Georgia	284	3,388	2,090	1,924	166	2,337	109,503
Florida	9	329	136	89	47	343	17,138
EAST SOUTH CENTRAL:							
Kentucky	1,137	9,619	8,536	8,366	170	6,912	286,911
Tennessee	1,082	9,363	7,449	7,134	315	7,859	265,370
Alabama	278	3,073	2,088	1,991	97	2,800	93,472
Mississippi	345	3,282	2,618	2,529	89	3,760	85,866
WEST SOUTH CENTRAL:							
Arkansas	516	3,962	3,675	3,577	98	5,137	104,939
Louisiana	166	2,780	1,939	1,064	875	1,192	196,801
Oklahoma	1,690	19,098	18,037	17,684	353	24,446	592,005
Texas	2,049	28,991	17,716	17,110	606	14,827	1,373,054
MOUNTAIN:							
Montana	234	6,804	2,967	2,776	191	4,876	388,500
Idaho	344	5,981	4,143	4,037	106	4,249	313,999
Wyoming	142	5,280	1,573	1,446	127	2,141	217,922
Colorado	341	7,644	3,967	3,748	219	10,423	257,392
New Mexico	61	1,148	527	472	55	2,399	45,333
Arizona	17	520	349	127	222	[3] 193	[3] 38,581
Utah	17	314	215	201	14	993	17,742
Nevada	9	121	64	55	9	(3)	(3)
PACIFIC:							
Washington	800	16,648	11,775	11,391	384	26,421	689,117
Oregon	976	14,848	12,362	11,929	433	18,555	567,118
California	1,636	29,705	16,848	15,867	981	46,342	1,718,722

[1] Does not include data for connecting lines having fewer than 5 telephones per line as follows: 11,759 lines; 29,201 telephones; and estimated figures for other items as follows: 44,249 miles of single wire; 27,694 residence telephones; 1,507 business telephones; and $1,599,615 investment in equipment.

[2] Includes $324,080 assessments levied by mutually operated connecting lines.

[3] To prevent disclosure, financial data for the following States have been combined: Massachusetts with Vermont; New Jersey with New York; and Nevada with Arizona.

Chapter V.—RADIOTELEPHONES

The census of radiotelephones was taken for the first time covering the year 1937 as a part of the quinquennial Census of Electrical Industries. The canvass covered all companies and systems licensed by the United States to engage in the reception and transmission of commercial radiotelephone communications in the public service. This excluded radiotelephone stations such as amateur, experimental, Federal, police, fire, etc., which were not licensed to charge fees for receiving or sending calls.

Collection of the data.—The schedule form used in the canvass was drawn up with the assistance of the technical experts of the Federal Communications Commission. The survey was conducted by mail and a schedule was sent to all United States licensees in the United States, Alaska, Hawaii, and Puerto Rico, as well as those operating ship stations. The index of licensees on file with the Federal Communications Commission was used as a mailing list.

Period covered.—The statistics for revenues and traffic relate to the calendar year 1937, and the number of radiotelephone stations are as of December 31, 1937.

Terms used.—The term "station" refers to a complete transmitting and receiving system operated as a unit. The term "adjacent countries" refers to Alaska, Canada, Cuba, Mexico, and other points with which calls are accepted and transmitted in accordance with the respondents' rules and regulations governing domestic transmission.

TABLE 26.—SUMMARY STATISTICS—RADIOTELEPHONES: 1937

	Number or amount
Number of companies or systems	27
Number of stations	132
Operating revenues applicable to the radio link	$1,212,073
Number of completed revenue calls during 1937, aggregate	147,596
Calls by class:	
Foreign traffic of the United States, total calls	52,507
United States with foreign [1] (not adjacent) countries, total	[2] 50,710
Inbound	23,987
Outbound	26,723
Relayed in the United States between foreign [1] (not adjacent) countries and between adjacent countries and foreign [1] countries	[3] 1,797
Ship traffic of the United States, total	26,409
Subject to overseas regulations, total	6,785
Completed revenue calls—Continued.	
Calls by class—Continued.	
Ship traffic of United States—Con.	
Subject to overseas regulations—Continued.	
United States with ships—other than transiting calls, total	[2] 6,515
Inbound	4,290
Outbound	2,225
United States with ships—transiting calls	[4] 270
Subject to coastal and harbor regulations, total	19,624
United States with ships—other than transiting calls, total	[2] 19,304
Inbound	15,149
Outbound	4,155
United States with ships—transiting calls	[4] 320
Other traffic—within the United States: [5] within Alaska [6], within Hawaii, [6] and within Puerto Rico; [6] Hawaii and Puerto Rico with other countries; [7] and Alaska with ships [8]	68,680

[1] Including outlying United States Territories and possessions but excluding Alaska.
[2] Includes calls either originating with respondents or received from connecting wire carriers which were transmitted by radio outbound from the United States and all inbound calls which were first received by radio in the United States.
[3] Includes calls relayed which were either transmitted by radio outbound from the United States or received first by radio inbound in the United States.
[4] Includes calls relayed in the United States which were received from ships or points in adjacent or foreign countries and which were transmitted by radio outbound from the United States to ships and vice versa.
[5] Calls transmitted by radio either originating with respondents or received from connecting wire carriers.
[6] Originating calls only.
[7] Including outlying United States Territories and possessions but excluding the United States. Including calls originating, terminating calls received, and calls relayed in Hawaii and Puerto Rico between other countries but excluding all calls originating, terminating, or relayed in the United States.
[8] In traffic *not* originating, terminating, or relayed in the United States, calls originating and terminating calls received.

TELEGRAPHS: 1937

INTRODUCTION

General description.—The census of land telegraphs and ocean-cable systems has been taken quinquennially since 1902, and beginning with 1907 wireless systems were also canvassed. The title "Wireless telegraphs" was changed at the 1937 Census to "Radiotelegraphs" and the inquiry revised as to data and scope. No comparable figures for previous census years can therefore be shown for radiotelegraphs. The only census statistics for the telegraph industry for years prior to 1902 are those compiled and published at the decennial censuses of 1850 and 1880, which related to land systems only.

All the commercial land and ocean-cable systems in the United States are owned and operated by incorporated companies. The land (wire) commercial systems covered by this report are those operated in the United States exclusive of outlying possessions, and the commercial cable systems are those operated by companies incorporated in the United States. The commercial radiotelegraph systems or stations are those which are licensed by the United States to operate in Continental United States, Alaska, Hawaii, and Puerto Rico, and as ship radiotelegraph stations. No statistics are given for press associations or newspaper traffic over private or leased wire.

The figures for railway telegraphs as given in tables 5 and 6 relate solely to class I railroads (those having annual operating revenues of $1,000,000 or more). No data as to railway telegraphs are included in any of the other tables.

Period covered.—The statistics for income, expenses, and traffic relate to the calendar year 1937; the equipment items to December 31; and the number of employees are as of the end of June and December.

Financial statistics.—The effect on the land telegraph and cable business of the depression which reached the nadir in 1932 is strikingly illustrated by a comparison of the statistics for the 3 census years 1937, 1932, and 1927.

From 1927 to 1932, the number of employees decreased 18.1 percent, salaries and wages paid decreased 25.7 percent, and operating revenues decreased 35.4 percent; while the period from 1932 to 1937 showed increases for number of employees, salaries and wages paid, and operating revenues of 10.1 percent, 13.3 percent, and 18.4 percent, respectively.

The Western Union Telegraph Co., which operates both land and ocean-cable systems did not report separately the detailed financial data for each system, and accordingly it has been necessary in table 4 to include the financial data for the Western Union cable system with those for land systems, and in table 7 to exclude the financial data for

the ocean-cable system of this company. The statistics, however, for salaries and wages for each year and operating revenues for 1937 and 1932 include separate data for each system.

COMPARISON OF COMMERCIAL LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS

This section presents summary statistics for commercial land and ocean-cable telegraph systems combined for 1937 and earlier census years, and more detailed statistics for the two classes of systems separately for 1937.

Growth between 1917 and 1937.—The growth of the land-telegraph and ocean-cable business during the 20-year period covered by table 1 is illustrated by the following statement:

PERCENTAGE OF INCREASES FROM 1917 TO 1937

	Percent
Investment in plant and equipment	108
Number of messages	38
Number of employees	13
Operating revenues	27

TABLE 1.—SUMMARY—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: 1917–37

[The Western Union Telegraph Co., which operates both land and ocean-cable systems, is counted as 2 companies. Percent is not shown when base is less than 100]

ITEM	1937	1932	1927	1922	1917	PERCENT INCREASE OR DECREASE (—)				
						1932–1937	1927–1932	1922–1927	1917–1922	1927–1937
Number of companies or systems	23	23	25	25	28					
Miles of pole line, total [1]	253,576	256,661	256,809	252,991	241,128	—1.2	—0.1	1.5	4.9	—1.3
Owned	186,548	187,979	193,578	195,655	192,413	—.8	—2.9	—1.1	1.7	—3.6
Leased or controlled	67,028	68,682	63,231	57,336	48,715	—2.4	8.6	10.3	17.7	6.0
Miles of single wire, total [2]	2,327,832	2,266,054	2,145,897	1,853,250	1,890,245	2.7	5.6	15.8	—2.0	8.5
Aerial, total	1,983,596	1,956,003	1,940,069	1,718,251	1,809,482	1.4	.8	12.9	—5.0	2.2
Owned	1,730,057	1,714,275	1,682,413	1,550,392	1,396,595	.9	1.9	8.5	11.0	2.8
Leased or controlled	253,539	241,728	257,656	167,859	412,887	4.9	—6.2	53.5	—59.3	—1.6
Underground	335,179	303,912	200,979	131,448	77,187	10.3	51.2	52.9	70.3	66.8
Submarine, other than ocean	9,057	6,139	4,849	3,551	3,576	47.5	26.6	36.6	—0.7	86.8
Nautical miles [3] of ocean cable	103,671	96,468	99,074	76,711	71,251	7.5	—2.6	29.2	7.7	4.6
Nautical miles [3] of single wire in ocean cable	105,413	(4)	(4)	(4)	(4)					
Number of telegraph and cable offices	25,522	26,047	27,666	27,354	28,940	—2.0	—5.9	1.1	—5.5	—7.7
Number of messages	218,115,838	158,377,660	229,582,433	191,121,333	158,176,456	37.7	—31.0	20.1	20.8	—5.0
13 Revenues (operating), total	[5] $135,791,543	$114,655,696	$177,589,096	$146,805,215	$106,989,743	18.4	—35.4	21.0	37.2	—23.5
From telegraph	117,031,930	97,729,160	159,682,419	128,630,859	91,312,567	19.8	—38.8	24.1	40.9	—26.7
From cable	18,759,613	16,926,536	17,906,677	18,174,356	15,677,176	10.8	—5.5	—1.5	15.9	4.8
Taxes assignable to operations during year, total	$6,964,261	$4,426,998	$7,064,545	$6,893,994	$5,397,351	57.3	—37.3	2.5	27.7	—1.4
Federal	1,221,115	(4)	(4)	(4)	(4)					
Other	5,743,146	(4)	(4)	(4)	(4)					
3 Investment in plant and equipment	$506,764,687	$506,445,426	$426,698,742	$326,661,860	$243,358,432	.1	18.7	30.6	34.2	18.8
15 Dividends paid	$3,118,696	(4)	$14,199,089	$10,715,577	$9,817,211			32.5	9.2	—78.0
Dividend income	$1,626,960	(4)	$1,388,721	$889,949	$876,235			56.0	1.6	17.2
Rents paid	$14,586,170	(4)	(6)	(6)	(6)					
Rents received	$3,472,935	(4)	(6)	(6)	(6)					

See footnotes at end of table.

TABLE 1.—SUMMARY—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: 1917–37—Continued

[The Western Union Telegraph Co., which operates both land and ocean-cable systems, is counted as 2 companies. Percent is not shown when base is less than 100]

ITEM	1937	1932	1927	1922	1917	PERCENT INCREASE OR DECREASE (—)				
						1932–1937	1927–1932	1922–1927	1917–1922	1927–1937
Pensions and sickness and accident benefits paid to employees during year	$3,221,379	(4)	(4)	(4)	(4)					
Funded debt as of—Jan. 1	$114,200,000	(4)	(4)	(4)	(4)					
Dec. 31	$111,161,000	(4)	$97,037,000	$71,394,000	$61,827,549			35.9	15.5	14.6
Interest paid on funded debt	$5,198,190	(4)	[7] $4,773,975	[8] $3,301,042	[9] $2,584,435			44.6	27.7	8.9
Investment in interest-bearing securities as of—										
Jan. 1	$24,090,058	(4)	(4)	(4)	(4)					
Dec. 31	$22,426,541	(4)	(6)	(6)	(6)					
Interest income during year	$552,442	(4)	$3,068,612	$3,299,968	$1,644,701			−7.0	100.6	−82.0
Number of employees—June 30	73,457	66,723	81,498	68,632	64,723	10.1	−18.1	18.7	6.0	−9.9
Dec. 31	69,737	(4)	(4)	(4)	(4)					
Salaries and wages paid	$83,747,898	$73,948,923	$99,520,357	$76,161,926	$43,764,201	13.3	−25.7	30.7	74.0	−15.8

[1] Exclusive of pole line owned and operated wholly by railway companies, but including, for 1937, 2,696 miles; for 1932, 446 miles; for 1927, 2,089 miles; for 1917, 116 miles, of pole line of ocean-cable systems.

[2] Exclusive of wire owned and operated wholly by railway companies, as follows: For 1937, 318,116 miles; for 1932, 337,059 miles; for 1927, 333,898 miles; for 1922, 285,002 miles; and for 1917, 344,110 miles, as reported by railway companies having annual operating revenues of $1,000,000, or more.

[3] A nautical mile is equal to 6,080.2 feet, or 1.151553 statute miles.

[4] Not called for on schedule.

[5] In addition, telegraph revenues amounting to $25,899,081 were reported by companies primarily engaged in supplying telephone service.

[6] No comparable data.

[7] Includes interest on $2,491,691 of floating debt.

[8] Includes interest on $998,327 of floating debt.

[9] Includes interest on $1,040,580 of floating debt and mortgages.

TABLE 2.—EQUIPMENT AND TRAFFIC—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: 1937

[The Western Union Telegraph Co., which operates both land and ocean-cable systems, is counted as 2 companies]

ITEM	Total	Land	Ocean
Number of companies or systems	23	17	6
Miles of pole line, total	253, 576	250, 880	2, 696
Owned	186, 548	184, 279	2, 269
Leased or controlled	67, 028	66, 601	427
Miles of single wire, total	2, 327, 832	2, 301, 532	26, 300
Aerial, total	1, 983, 596	1, 971, 851	11, 745
Owned	1, 730, 057	1, 719, 482	10, 575
Leased or controlled	253, 539	252, 369	1, 170
Underground	335, 179	323, 421	11, 758
Submarine, excluding ocean cable	9, 057	6, 260	2, 797
Nautical miles of ocean cable	102, 671		103, 671
Nautical miles of single wire in ocean cable	105, 413		105, 413
Number of telegraph and cable offices	25, 522	25, 453	69
Operated solely by reporting company	6, 321	6, 253	68
Operated jointly with other companies	19, 201	19, 200	1
Number of messages during 1937	218, 115, 838	206, 987, 290	11, 128, 548
Government	8, 619, 467	8, 513, 307	106, 160
Commercial (other than Government)	200, 900, 657	190, 008, 312	10, 892, 345
Contract and free	8, 595, 714	8, 465, 671	130, 043
Domestic messages [1]	207, 239, 727	206, 987, 290	252, 437
Government	8, 514, 489	8, 513, 307	1, 182
Commercial (other than Government)	190, 259, 567	190, 008, 312	251, 255
Contract and free	8, 465, 671	8, 465, 671	
Foreign-cable messages [2]	10, 876, 111		10, 876, 111
Government	104, 978		104, 978
Commercial (other than Government)	10, 641, 090		10, 641, 090
Contract and free	130, 043		130, 043

[1] Refers to messages: (*a*) Between points within the United States; (*b*) between points in the United States and points in "adjacent countries"; (*c*) between points in "adjacent countries," which messages are relayed in the United States; and (*d*) any other messages that are accepted and transmitted in accordance with the respondent's rules and regulations governing domestic transmission.

[2] Refers to messages, not included under the "Domestic" classification, that are accepted and transmitted in accordance with the respondent's rules and regulations governing international transmission, between points in the United States and points outside the United States, and between points both of which are outside the United States, which messages are relayed in the United States.

TABLE 3.—EMPLOYEES, SALARIES, AND WAGES—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS, 1937

ITEM	TOTAL		LAND		OCEAN	
	June 30	Dec. 31	June 30	Dec. 31	June 30	Dec. 31
Number of employees, including salaried officers, part-time and temporary employees, total	73, 457	69, 737	68, 054	64, 254	5, 403	5, 483
Salaried employees (salaried officers of corporations, superintendents, managers, clerks, stenographers, etc.)	23, 884	22, 309	21, 885	20, 317	1, 999	1, 992
Wage earners, total	49, 573	47, 428	46, 169	43, 937	3, 404	3, 491
Operators, total	19, 761	18, 620	18, 350	17, 215	1, 411	1, 405
Male	6, 958	6, 588	5, 586	5, 220	1, 372	1, 368
Female	12, 803	12, 032	12, 764	11, 995	39	37
All other wage earners	29, 812	28, 808	27, 819	26, 722	1, 993	2, 086
Total salaries and wages paid to all employees during 1937	$83,747,898		$76,414,831		$7,333,067	

COMMERCIAL AND RAILWAY LAND TELEGRAPH SYSTEMS

Line and wire mileage.—The following statement shows the line and wire mileage of land-telegraph companies as reported for 1852 and 1880 (in connection with the decennial censuses of 1850 and 1880 respectively) and for each of the quinquennial census years. The wire mileage shows increases of 1.8 percent and 5.7 percent for the 5-year periods 1932–37 and 1927–32 respectively.

CENSUS YEAR	Miles of pole line	Miles of single wire	CENSUS YEAR	Miles of pole line	Miles of single wire
1937	250, 880	2, 301, 532	1912	247, 528	1, 814, 196
1932	256, 215	2, 259, 827	1907	239, 646	1, 577, 961
1927	254, 720	2, 138, 259	1902	237, 990	1, 307, 046
1922	252, 991	1, 845, 237	1880	110, 727	291, 213
1917	241, 012	1, 888, 793	1852	16, 735	23, 281

TABLE 4.—SUMMARY—LAND TELEGRAPH SYSTEMS: 1927–37

[Includes financial data for the ocean-cable system operated by the Western Union Telegraph Co., no segregation of the financial data, except salaries and wages for each year, and operating revenues for 1937 and 1932, for the ocean-cable business of this company having been made]

ITEM	1937	1932	1927	PERCENT INCREASE OR DECREASE (—)		
				1932–1937	1927–1933	1927–1937
Number of companies or systems	17	17	18	--------	--------	--------
Miles of pole line, total [1]	250, 880	256, 215	254, 720	—2.1	0.6	—1.5
Owned	184, 279	187, 533	191, 489	—1.7	—2.1	—3.8
Leased or controlled	66, 601	68, 682	63, 231	—3.0	8.6	5.3
Miles of single wire, total [2]	2, 301, 532	2, 259, 827	2, 138, 259	1.8	5.7	7.6
Aerial, total	1, 971, 851	1, 952, 432	1, 936, 611	1.0	.8	1.8
Owned	1, 719, 482	1, 712, 926	1, 681, 180	.4	1.9	2.3
Leased or controlled	252, 369	239, 506	255, 431	5.4	—6.2	—1.2
Underground	323, 421	301, 560	197, 058	7.2	53.0	64.1
Submarine, other than ocean	6, 260	5, 835	4, 590	7.3	27.1	36.4
Number of telegraph offices, total	25, 453	25, 901	27, 530	—1.7	—5.9	—7.5
Operated solely by reporting company	6, 253	6, 332	6, 050	—1.2	4.7	3.4
Operated jointly with other companies	19, 200	19, 569	21, 480	—1.9	—8.9	—10.6
Number of messages, total	206, 987, 290	147, 941, 047	215, 595, 494	39.9	—31.4	—4.0
Government	8, 513, 307	3, 583, 031	2, 657, 412	137.6	34.8	220.4
Commercial, other than Government	190, 008, 312	135, 797, 258	200, 380, 684	39.9	—32.2	—5.2
Contract and free	8, 465, 671	8, 560, 758	12, 557, 398	—1.1	—31.8	—32.6
Revenue (operating)	$117, 031, 930	$97, 729, 160	$159, 682, 419	19.8	—38.8	—26.7
Taxes assignable to operations during year, total	$6, 356, 691	$4, 033, 821	$6, 181, 805	57.6	—34.7	2.8
Federal	$949, 241	(3)	(3)	--------	--------	--------
Other	$5, 407, 450	(3)	(3)	--------	--------	--------
Investment in plant and equipment	$418, 231, 449	$415, 694, 458	$338, 143, 146	.6	22.9	23.7
Dividends paid	$1, 604, 227	(3)	$8, 191, 492	--------	--------	—80.4
Dividend income	$1, 110, 300	(3)	$1, 106, 025	--------	--------	.4
Rents paid	$13, 702, 571	(3)	(4)	--------	--------	--------
Rents received	$3, 423, 960	(3)	(4)	--------	--------	--------
Pensions and sickness and accident benefits paid to employees	$2, 649, 716	(3)	(3)	--------	--------	--------
Funded debt as of—Jan. 1	$94, 200, 000	(3)	(3)	--------	--------	--------
Dec. 31	$91, 161, 000	(3)	$92, 872, 000	--------	--------	—1.8
Interest paid on funded debt	$4, 398, 190	(3)	$4, 557, 933	--------	--------	—3.5
Investment in interest-bearing securities as of—Jan. 1	$8, 092, 399	(3)	(3)	--------	--------	--------
Dec. 31	$7, 998, 906	(3)	(4)	--------	--------	--------
Interest income during year	$434, 308	(3)	$1, 477, 979	--------	--------	—70.6
Number of employees—June 30	68, 054	60, 933	74, 903	11.7	—18.7	—9.1
Dec. 31	64, 254	(3)	(3)	--------	--------	--------
Salaries and wages paid to all employees	$76, 414, 831	$66, 987, 669	$89, 983, 975	14.1	—25.6	—15.1

[1] Exclusive of pole line owned and operated wholly by class I railroads. Pole line of ocean-cable systems reporting separately, amounting to 2,696 miles in 1937; 446 miles in 1932 and 2,089 miles in 1927 has also been excluded.

[2] Exclusive of wire owned and operated wholly by class I railroads amounting to 318,116 miles in 1937; 337,059 miles in 1932; and 333,898 miles in 1927; and of land wire of ocean-cable companies reporting separately amounting to 23,503 miles in 1937; 5,923 miles in 1932; and 7,379 miles in 1927.

[3] Not called for on schedule.

[4] No comparable data.

Train dispatchers and railroad telegraph operators.—The Census inquiry did not call for data regarding railroad operators or their wages; but the following statement relating to train dispatchers and telegraph operators employed by class I railroads has been prepared from reports of the Interstate Commerce Commission. The methods of classifying these employees have been such that it is impossible to show separately the number of telegraph operators.

CLASS	NUMBER			WAGES		
	1937	1932	1927	1937	1932	1927
Total	45,553	46,283	58,734	$85,088,884	$81,539,614	$120,439,308
Chief train dispatchers	3,922	3,852	5,292	12,302,715	11,591,135	17,287,787
Chief telegraphers and telephoners or wire chiefs	853	804	833	2,069,684	1,817,830	2,110,099
Telegraphers, telephoners, and towermen	16,081	16,960	20,275	27,893,620	28,327,647	44,403,953
Clerk-telegraphers and clerk-telephoners	9,307	8,365	13,531	15,929,050	13,886,160	23,632,549
Station-agent telegraphers and telephoners	15,390	16,302	18,803	26,893,815	25,916,842	33,004,920

Train dispatching by telegraph and by telephone, class I railroads.—There was a slight increase between 1932 and 1937 in the use of the telephone with a corresponding decrease in the use of the telegraph for train dispatching. The proportion of the total mileage dispatched by telephone only, increased from 61.2 percent in 1932 to 62.7 percent in 1937.

The use of "printing telegraphs" by the railroads increased between 1932 and 1937, with 18 railroads having adopted it within the 5-year period, making a total of 49 which were using this system in 1937. These 49 railroads reported 832 circuits, comprising 84,941 miles of wire, in operation with printing telegraph instruments.

TABLE 5.—TRAIN DISPATCHING BY TELEGRAPH AND TELEPHONE, FOR CLASS I RAILROADS [1]: 1937, 1932, AND 1927

METHOD	NUMBER OF SYSTEMS OR LINES REPORTING			MILES OF ROAD DISPATCHED		
	1937	1932	1927	1937	1932	1927
Total	164	157	165	227,485	228,267	228,896
Telegraph	[2] 101	[2] 112	[2] 114	80,114	83,200	93,842
Telephone	[3] 126	[3] 120	[3] 119	142,745	139,712	131,301
Joint telegraph and telephone	[4] 17	[4] 14	[4] 9	4,626	5,355	3,753

[1] Railroads having annual operating incomes of $1,000,000 or more.

[2] Telegraph only over entire line, 20 in 1937, 29 in 1932, and 38 in 1927; telegraph only over part of line and telephone only over remainder, 71 in 1937, 75 in 1932, and 74 in 1927; telegraph and telephone jointly or interchangeably over part of line and telegraph over all or part of remainder, 10 in 1937, 8 in 1932, and 2 in 1927.

[3] Telephone only over entire line, 52 in 1937, 38 in 1932, and 44 in 1927; telephone only over part of line and telegraph only over remainder, 71 in 1937, 75 in 1932, and 74 in 1927; telegraph and telephone jointly or interchangeably over part of line and telephone only over all or part of remainder, 3 in 1937, 7 in 1932, and 1 in 1927.

[4] Telegraph and telephone jointly or interchangeably over entire line, 4 in 1937, 5 in 1932, and 3 in 1927; telegraph and telephone jointly or interchangeably over part of line and either telegraph only or telephone only over remainder, or telegraph only and telephone only over separate parts of remainder, 13 in 1937, 9 in 1932, and 6 in 1927.

Railway and commercial telegraph lines on railway right-of-way.—The track mileage shown in table 6 covers the trackage of all class I railroads, including 6 which reported no telegraph lines along their rights-of-way. The reports show a decrease in total pole mileage of 3,641 miles, or 1.7 percent, between 1932 and 1937, compared with a decrease of 23,876 miles, or 10.1 percent between 1927 and 1932. The wire mileage increased 17,754 miles, or 1.1 percent, from 1932 to 1937, compared to an increase of 8,660 miles, or one-half of 1 percent, from 1927 to 1932.

Telephone wire on railway right-of-way.—The railroads could not in all cases supply complete data regarding mileage of commercial wire along their lines. Some of the telegraph pole line reported by the class I railroads carried telephone wire, also, and 36,668 miles of additional pole line designated as "telephone" doubtless carried part of the telegraph wire. The total telephone wire mileage on the right-of-way of class I railroads was reported as 866,840 in 1937. Of this amount, the railroads owned 670,606 miles outright and 2,371 miles jointly with telephone companies, the remaining 193,863 miles being owned by telephone and other nonrailway companies. The mileage of telephone wire operated either solely by the railroads or jointly by the railroads and telephone companies amounted to 708,016, or 81.7 percent of the total wire mileage in 1937.

TABLE 6.—SUMMARY—TELEGRAPH AND TELEPHONE LINE AND WIRE ON RIGHT-OF-WAY OF CLASS I RAILROADS:[1] 1937, 1932, AND 1927

ITEM	1937	1932	1927
Number of systems or lines reporting	164	157	165
Miles of single track	233,772	241,424	238,874
TELEGRAPH LINE AND WIRE			
Miles of pole line owned, total	208,669	212,310	236,186
By railway companies	49,690	58,659	84,719
Jointly by railway and telegraph companies	31,453	28,345	25,486
By telegraph and other nonrailway companies	127,526	125,306	125,981
Miles of pole lines operated, total	208,669	212,310	236,186
By railway companies	73,360	91,887	101,467
Jointly by railway and telegraph companies	34,463	46,208	37,875
By telegraph and other nonrailway companies	100,846	74,215	96,844
Miles of single wire owned, total	1,595,082	1,577,328	1,568,668
By railway companies	351,313	358,503	374,852
Jointly by railway and telegraph companies	22,560	15,626	55,137
By telegraph and other nonrailway companies	1,221,209	1,203,199	1,138,679
Miles of single wire operated, total	1,595,082	1,577,328	1,568,668
By railway companies	486,471	503,380	545,730
Jointly by railway and telegraph companies	75,102	78,730	13,378
By telegraph and other nonrailway companies	1,033,509	995,218	1,009,560
Miles of single wire wholly owned and wholly operated by railway companies	318,116	337,059	333,898
TELEPHONE LINE AND WIRE			
Miles of pole line owned, total	36,668	27,758	29,574
By railway companies	28,038	19,499	20,956
Jointly by railway and telephone companies	36	36	466
By telephone and other nonrailway companies	8,594	8,223	8,152
Miles of pole line operated, total	36,668	27,758	29,574
By railway companies	29,181	20,519	22,200
Jointly by railway and telephone companies	194	627	697
By telephone and other nonrailway companies	7,293	6,612	6,677
Miles of single wire owned, total	866,840	806,086	684,576
By railway companies	670,606	637,678	544,423
Jointly by railway and telephone companies	2,371	2,122	2,697
By telephone and other nonrailway companies	193,863	166,286	137,456
Miles of single wire operated, total	866,840	806,086	684,576
By railway companies	693,305	673,919	571,454
Jointly by railway and telephone companies	14,711	10,412	7,481
By telephone and other nonrailway companies	158,824	121,755	105,641
Miles of single wire wholly owned and wholly operated by railway companies	652,944	622,116	531,029

[1] Railroads having annual operating revenues of $1,000,000 or more.

COMMERCIAL CABLE SYSTEMS

The statistics presented under this head relate only to commercial cable companies incorporated in the United States.

TABLE 7.—SUMMARY—OCEAN-CABLE TELEGRAPH SYSTEMS: 1927–37

[Except for salaries and wages for each year, and for operating revenue for 1937 and 1932, no financial data for the ocean-cable system operated by the Western Union Telegraph Co., are included since no segregation of the financial data for the ocean-cable business of this company has been made]

ITEM	1937	1932	1927	PERCENT INCREASE OR DECREASE (—)		
				1932–1937	1927–1932	1927–1937
Number of companies or systems	6	6	7			
Nautical miles [1] of ocean cable	103,671	96,468	99,074	7.5	—2.6	4.6
Nautical miles [1] of single wire in ocean cable [2]	105,413	(3)	(3)			
Number of cable offices	69	146	136	—52.7	7.4	—49.3
Number of messages, total	11,128,548	10,436,613	13,986,939	6.6	—25.4	—20.4
Government	106,160	71,541	74,520	48.4	—4.0	42.5
Commercial, other than Government	10,892,345	10,365,072	13,783,781	5.1	—24.8	—21.0
Contract and free	130,043		128,638			1.1
Revenues (operating)	$18,759,613	$16,926,536	$17,906,677	10.8	—5.5	4.8
Taxes assignable to operations during year	$607,570	$393,177	$882,740	54.5	—55.5	—31.2
Federal	$271,874	(3)	(3)			
Other	$335,696	(3)	(3)			
Investment in plant and equipment	$88,533,238	$90,750,968	$88,555,596	—2.4	2.5	(4)
Dividends paid	$1,514,469	(3)	$6,007,597			—74.8
Dividend income	$516,660	(3)	$282,696			82.8
Rents paid	$883,599	(3)	(5)			
Rents received	$48,975	(3)				
Pensions and sickness and accident benefits paid to employees	$571,663	(3)	(3)			
Funded debt as of—Jan. 1	$20,000,000	(3)	(3)			
Dec. 31	$20,000,000	(3)	$4,165,000			380.2
Interest paid on funded debt	$800,000	(3)	$216,042			270.3
Investment in interest-bearing securities as of—Jan. 1	$15,997,659	(3)	(3)			
Dec. 31	$14,427,635	(3)	(5)			
Interest income during year	$118,134	(3)	$1,590,633			—92.6
Number of employees—June 30	5,403	5,790	6,595	—6.7	—12.2	—18.1
Dec. 31	5,483	(3)	(3)			
Salaries and wages paid	$7,333,067	$6,961,254	$9,536,382	5.3	—27.0	—23.1

[1] A nautical mile is equal to 6,080.2 feet, or 1.151553 statute miles.
[2] In addition, the cable companies reported 23,503 miles of single wire on land and underground for 1937; 5,923 miles for 1932; and 7,379 miles for 1927. (Miles of pole line of ocean-cable systems, 2,696 in 1937; 446 in 1932; 2,089 in 1927).
[3] Not called for on schedule.
[4] Less than 1/10 of 1 percent.
[5] No comparable data.

GOVERNMENT TELEGRAPH AND CABLE LINES

This section presents statistics for those Government telegraph and cable lines, including radiotelegraph which, although used mainly in connection with the transaction of Government business, also transmit commercial messages. All such lines except those operated by the Coast Guard are located in or connect with the outlying possessions of the United States. With these Government lines the effort generally has been, with reference to commercial traffic, to provide a public service rather than to make the lines a source of revenue.

Coast Guard—Report of chief of Coast Guard, 1936–37.—The Coast Guard owns and operates a coastal communication system consisting of 1,602 miles of pole line, 3,000 miles of open wire aerial circuit, 50 miles of aerial and underground cable, and 642 miles of submarine cable. A number of these lines are connected with central offices of commercial telephone systems, thus affording telephone and telegraph service to all units of the Coast Guard, Navy direction-finder stations, Weather Bureau offices, and lighthouses.

OUTLYING POSSESSIONS

Alaska.—The Alaska Communication System, formerly known as the Washington-Alaska Military Cable and Telegraph System, operated by the Signal Corps of the United States Army, maintains a radio system between Seattle, Wash., and 21 stations in Alaska. While this system maintains submarine cables between Seattle and Alaska, these cables have been inoperative, except for occasional test purposes, for the past several years. The telegraph and cable traffic has been replaced by radio. During 1937 there were 58,100 commercial radiotelegraph messages filed in Seattle destined to points in Alaska, either to stations owned by the system or for delivery to other offices reached through their offices. There were, also, 182,700 radiotelegraph messages within Alaska, subject to domestic regulations and 5,000 messages with ships, subject to international regulations. The revenue from these messages amounted to $396,296. The network of radio communications reaches all of the important communities in Alaska. Radiotelephone is also being used to a considerable extent.

The annual report of the Governor of Alaska for 1936–37 states that on August 20, 1937, the Office of Indian Affairs was granted permission by the Independent Radio Advisory Committee to establish Indian Service radio stations in Alaska. No operator or station licenses are required and the station can communicate direct through the Signal Corps system. During the year 26 stations were granted call letters and are now operating as Indian Service stations.

Panama Canal Zone.—The Panama Canal Zone telegraph system is operated by the Panama Railroad Co. which is owned by the United States Government. A complete telephone system covers the Canal Zone and the cities of Panama and Colon. During the year 1937, 1,412 telephones were reconnected or installed and 1,262 were discontinued or removed, resulting in a net increase of 150 telephones. At the close of the fiscal year there were 3,015 telephones, 54 electric clocks, and 26 automatic "printing telegraph" typewriters in service. The total revenue from such services amounted to $235,643. The business revenue derived from the business operations of the telephone, telegraph, and signal work amounted to $161,134. By "business operations" is meant business operations of the Canal conducted separately from operating activities pertaining directly to the transiting of vessels and government of the Canal Zone. The annual appropriation acts for the Panama Canal authorize the use of appropriated funds for the conduct of auxiliary business activities, provided that funds so advanced are recovered through earnings, and with a further proviso that any net profit derived from such business activities be covered annually into the United States Treasury.

Philippine Islands.—The telegraph service in the Philippines is operated as a part of the activities of the Bureau of Posts. Its receipts go to the National Treasury of the Commonwealth of the Philippines and the yearly appropriations for its expenditures are provided by the National Assembly. The Bureau of Posts reported 438 land line telegraph stations and 105 radiotelegraph stations. There were 5,036 miles of pole line and 8,829 miles of aerial wire owned by the Commonwealth; in addition, the Commonwealth owned 54 miles of underground wire and 406 miles of submarine cable. The number of messages handled was 1,293,615 and the total revenue from telegraph, cable, and radiotelegraph amounted to $724,711 during 1937.

RADIOTELEGRAPHS

Previous to the 1937 Census, this inquiry was referred to as "Wireless telegraphs," and reports were obtained from commercial companies and systems operating in the United States on the same schedule form as used for land and ocean-cable telegraph companies. At the 1937 Census it was decided to change the name of the survey to "Radiotelegraphs," provide a special schedule for reporting, enlarge the scope of the inquiry to include Alaska, Hawaii, Puerto Rico, and radiotelegraph stations on ships, and to revise the data called for on the report form. No comparable figures for previous census years can therefore be shown.

Collection of the data.—The schedule form was drawn up with the assistance of the technical experts of the Federal Communications Commission. The canvas covered all companies and systems licensed by the United States to engage in the reception and transmission of commercial radiotelegraph communications in the public service. This excluded radiotelegraph stations (such as amateur, experimental, Federal, police, fire, etc.) which are not licensed to charge fees for receiving or sending messages. The survey was conducted by mail, and a schedule was sent to all United States licensees in the United States, Alaska, Hawaii, and Puerto Rico, as well as those operating ship stations. The index of licensees on file with Federal Communications Commission was used as a mailing list.

Period covered.—The statistics for revenues and traffic relate to the calendar year 1937, and the number of radiotelegraph stations are as of December 31, 1937.

Terms used.—The term "station" refers to a complete transmitting and receiving system operated as a unit. The term "adjacent countries" refers to Mexico, Canada, Alaska, Newfoundland, Miquelon Island, and the points with which messages are accepted and transmitted in accordance with the respondents' rules and regulations governing domestic transmission. "Domestic" refers to messages: (*a*) Between points within the United States; (*b*) between points in the United States and points in "adjacent countries"; (*c*) between points in "adjacent countries," which messages are relayed in the United States; and (*d*) any other messages that are accepted and transmitted in accordance with the respondents' rules and regulations governing domestic transmission. Messages that are accepted and transmitted in accordance with the respondents' rules and regulations governing international transmission are classed as "foreign traffic." The term "domestic haul of foreign and ship messages" refers to the transmission within the United States of foreign or ship messages originating in, terminating in, or transiting the United States by being relayed therein.

TABLE 8.—SUMMARY STATISTICS—RADIOTELEGRAPHS: 1937

ITEM	Number or amount
Number of companies or systems	98
Number of radiotelegraph stations	1,154
Operating revenues, total	$9,515,327
Class of service rendered:	
Domestic	$2,003,901
Foreign (exclusive of ship)	$6,093,889
Ship	$1,011,646
Miscellaneous	$405,891
Number of revenue messages during 1937, aggregate	8,042,535
Messages by class (service messages not included):	
Messages subject to domestic regulations, total	2,840,082
Within the United States [1]	2,728,135
United States with adjacent countries and between adjacent countries transiting the United States	44,685
Within Alaska,[1] within Hawaii,[1] and within Puerto Rico[1]; Hawaii and Puerto Rico with other countries [2]	67,262
Domestic haul of foreign and ship messages	[3] 988,965
Messages subject to international regulations, total	5,202,453
Foreign traffic, total	4,281,313
United States with foreign [4] (not adjacent) countries, and transiting the United States between foreign [4] (not adjacent) countries and between adjacent and foreign [4] countries, total	4,275,923
Inbound including inbound transiting	2,366,152
Outbound including outbound transiting	1,909,771
Hawaii and Puerto Rico with other countries [2]	5,390
Ship traffic, total	921,140
United States with ships, total	868,074
Inbound including inbound transiting	533,972
Outbound including outbound transiting	334,102
Alaska, Hawaii, and Puerto Rico with ships [5]	29,845
Intership [6]	7,673
Ships with adjacent and foreign [7] countries [8]	15,548

[1] Originating messages only.

[2] Including outlying United States Territories and possessions but excluding the United States. In traffic not originating, terminating, or relayed in the United States, messages originating, terminating messages received, and messages relayed in Hawaii and Puerto Rico between other countries.

[3] Not included in total messages subject to domestic regulations as "domestic haul" reflects the transmission within the United States of foreign and ship messages included under "foreign traffic" and "ship traffic."

[4] Including outlying United States Territories and possessions but excluding Alaska.

[5] In traffic not originating, terminating, or relayed in the United States, messages originating, terminating messages received, and messages relayed in Alaska, Hawaii, and Puerto Rico between ships not licensed by the United States and between ships not licensed by the United States and other countries.

[6] In traffic not originating, terminating, or relayed in the United States, messages originating, terminating messages received from ships not licensed by the United States, and messages relayed by the United States ship licensee between ships not licensed by the United States.

[7] Including outlying United States Territories and possessions but excluding Alaska, Hawaii, and Puerto Rico.

[8] In traffic not originating, terminating, or relayed in the United States, messages originating, terminating messages received, and messages relayed by the United States ship licensee between ships not licensed by the United States and points in adjacent and foreign (footnote 7) countries.

APPENDIX

Page

Schedule used in collecting data for telephone systems—Operating companies in 1937 55
Schedule used in collecting data for telephone connecting lines and systems in 1937 57
Schedule used in collection data for radiotelephones in 1937 58
Schedule used in collecting data for telegraphs in 1937 60
Schedule used in collecting data for radiotelegraphs in 1937 62

CONFIDENTIAL GOVERNMENT REPORT—PLEASE RETURN PROMPTLY *File No.* .....

Your reports are CONFIDENTIAL. By acts of Congress, any information in regard to yourself or your business supplied to the Census Bureau for statistical purposes is confidential. No one except a sworn Census employee can see your returns. They are not available to any other Government agency, and cannot be used for purposes of investigation, regulation, or taxation. They are used solely for preparing statistical information on the Nation's population, resources, and business activities.

Form 2520 M
DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

Schedule No. .....

CENSUS OF TELEPHONES, 1937

OPERATING COMPANIES

AUTHORIZATION

An Act of Congress, approved June 7, 1906, authorizes the Director of the Census to collect and publish, every fifth year, statistics relating to the electrical industries. An Act of Congress, approved March 3, 1919, provides that it shall be the duty of every owner, official, agent, person in charge, or assistant to the person in charge of any company or establishment covered by the Census inquiries, to supply the information called for by schedules prepared in conformity with the requirements of the Census laws.

WILLIAM LANE AUSTIN,
Director of the Census.

Name of company or system .....
(If owned or controlled by another company or system from which report should be secured, give the name and address of the company)

.....

Post-office address of main operating headquarters:

City ..... County ..... State .....

Address of general office (if different from main operating headquarters) Street and number ..... County .....
City or town ..... State .....

CERTIFICATE

THIS IS TO CERTIFY that the information contained in this report is complete and correct to the best of my knowledge and belief, and it covers the period from ....., 193....

to ....., 193....

.....
(Signature and official designation of the person furnishing the information)

.....
(Address of person furnishing the information)

9—6091 M—11900

The statistics should relate to the calendar year ending December 31, 1937
(Each question should be answered. If not applicable, write "None.")

	Code of Co.	Code Size
1. Character or organization		

(State the form of organization as it existed on December 31, 1937, whether individual; mutual unincorporated; mutual incorporated; unincorporated cooperative association; incorporated cooperative association; incorporated company; firm or partnership; other form—Specify.)

	In cable	Key	Not in cable	Key	Total	Key
2. Miles of single wire December 31, 1937		A-1		A-2		A-3

(The answer to this inquiry should show the total number of miles of single wire in operation, or *ready* for operation. If several wires are on one line of poles or in one conduit or cable, count length of each wire separately. The proportion of reporting company's jointly-owned wire should be included.)

3. Number of central offices and number of telephones, December 31, 1937.

	Dial system	Key	Other types	Key	Total	Key
(a) Number of central offices		A-4		A-5		A-6
(b) Number of company telephones served by		A-7		A-8		A-9

(Include all official and subscriber telephones, i. e., main, private-branch exchange, and extension telephones; include those in local fay and outlying toll stations and farmer, rural, or party line *owned or operated* by the company; and those used by the company for communication between its different departments. *Do not* include telephones on wire of other companies or lines.)

		Key
4. Approximate number of residence telephones		A-10

	Local	Key	Toll and long distance	Key	Total	Key
5. Estimated number of telephone connections or calls during 1937		A-11		A-12		A-13

(Include both completed and uncompleted calls originating from telephones owned and operated by the reporting company as well as calls handled by the reporting company originating from service telephones. *Do not* include interior private-branch calls.)

	Omit cents	Key
6. Total telephone operating revenues during 1937	$.....	B-1

(Report total of local service revenues, toll service revenues, and miscellaneous operating revenues, less uncollectible operating revenues, as shown by Account 300 of Uniform System of Accounts for Telephone Companies, prescribed by the Federal Communications Commission or the Interstate Commerce Commission.)

7. Total local service revenues during 1937	$.....	B-2

(F. C. C. or I. C. C. Accounts 500-506, Classes A and B; I. C. C. Account 505, Class C.)

8. Total toll service revenues during 1937	$.....	B-3

(F. C. C. or I. C. C. Accounts 510-516, Classes A and B; I. C. C. Account 515, Class C.)

9. Interest income during 1937	$.....	B-4

(F. C. C. Account 312.)

10. Total amount of assessments levied by mutual companies for operation and maintenance of company during 1937	$.....	B-5

(Do not include in 6, 7, or 8.)

	Federal	Key	Other	Key	Total	Key
11. Total taxes assignable to operations during 1937	$.....	B-6	$.....	B-7	$.....	B-8

(Give total amount of *all* direct taxes, but exclude taxes on telephone messages. F. C. C. or I. C. C. Account 506, Classes A and B; I. C. C. Account 530, Class C.)

		Key
12. Interest paid on funded debt during 1937	$.....	B-9

(F. C. C. Account 335.)

13. Investment in plant and equipment, December 31, 1937	$.....	B-10

(F. C. C. Accounts 101.1, 102.3, 102.6; I. C. C. Account 102, Classes A, B, and C.)

11—11900

The statistics should relate to the calendar year ending December 31, 1937
(Each question should be answered. If not applicable, write "None.")

	Male	Key	Female	Key	Total	Key
14. Number of employees—June 30, 1937		C-1		C-2		C-3
December 31, 1937		C-4		C-5		C-6

(Include data for salaried officers, and part-time and temporary employees in service at end of June 1937, and end of December 1937.)

15. Total salaries and wages paid to all employees during 1937 (including employees' contributions for Social Security purposes) $ (Omit cents) — Key C-7

16. Companies operating in more than one State should report data on wire, central offices, telephones, and calls, by States, in the table below. (If exact figures are not available, carefully prepared estimates should be supplied and marked "E".)

Code (For office use only)	State	Total miles of single wire	Number of central offices	Number of Telephones: Residence	Number of Telephones: Business	Number of Telephones: Total	Total number of originating calls during year
Key C-8		Key C-9	Key C-10	Key C-11	Key C-12	Key C-13	Key C-14

MUTUAL COMPANIES AND COOPERATIVE ASSOCIATIONS ONLY should answer Inquiries 17, 18, 19, 20, and 21

		Code	Key
17. Approximate percentage of all telephones on your system which are located on farms	%		B-11
18. Approximate percentage of all telephones on your system which are used by members of the association or stockholders in the company	%		B-12
19. Approximate percentage of voting members or stockholders who are farmers	%		B-13
20. What was the largest amount of borrowed money (mortgages, bonds, notes, etc.) owed by the company or association at any time during 1937?	$		B-14
21. How many miles of grounded (one-wire) circuits on your system?			B-15

22. Give names of "Service lines" connecting with your switchboard or switchboards for service.
(The term "Service lines" means independently owned lines, i. e., lines not owned by the company, line, or system making this report, but directly connected with its switchboard, or switchboards, for switching service.)
Give name and address of secretary, or other person, who is in charge of each such "Service line."

Name or designated number of line	Name of secretary, or other person, in charge of each line	Post-office address of person in charge of each line	Number of telephones on each line*

* These telephones should not be included in the number reported in Inquiry 3 (b) or Inquiry 4.

(4)

(Each question should be answered. If not applicable, write "None.")

22. "Service lines"—Continued.
(Use a separate sheet if necessary.)

Name or designated number of line	Name of secretary, or other person, in charge of each line	Post-office address of person in charge of each line	Number of telephones on each line*

REMARKS:

* These telephones should not be included in the number reported in Inquiry 3 (b) or Inquiry 4.

(5)

File No. .....

CONFIDENTIAL GOVERNMENT REPORT—PLEASE RETURN PROMPTLY

Your reports are CONFIDENTIAL. By acts of Congress, any information in regard to yourself or your business supplied to the Census Bureau for statistical purposes is confidential. No one except a sworn Census employee can see your returns. They are not available to any other Government agency and cannot be used for purposes of investigation, regulation, or taxation. They are used solely for preparing statistical information on the Nation's population, resources, and business activities.

Form 2521 M

Schedule No. .....

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

CENSUS OF TELEPHONES, 1937

CONNECTING LINES AND SYSTEMS

(Those lines and systems which do not operate switchboards)

AUTHORIZATION

An act of Congress, approved June 7, 1906, authorizes the Director of the Census to collect and publish, every fifth year, statistics relating to the electrical industries. An act of Congress, approved March 3, 1919, provides that it shall be the duty of every owner, official, agent, person in charge, or assistant to the person in charge of any company or establishment covered by the Census inquiries, to supply the information called for by schedules prepared in conformity with the requirements of the Census laws.

WILLIAM LANE AUSTIN,
Director of the Census.

The statistics should relate to the calendar year ending December 31, 1937

1. Name of company or system / Name or number of line .....

2. Post-office address of secretary or other person in charge of line or system — State ..... City or town ..... County ..... Code

3. Character of organization .....
(State the form of organization as it existed on December 31, 1937, whether individual; mutual unincorporated; mutual incorporated; unincorporated cooperative association; incorporated cooperative association; incorporated company; firm or partnership; other form—specify.)

	Key
4. How many miles of single wire in your entire line or system, December 31, 1937?	D-1
5. How many telephones on your entire line or system, December 31, 1937?	D-2
6. How many of these telephones are located in homes (residence telephones)?	D-3
7. What were the total receipts from the operation of your entire line or system during 1937? ..... $..... (Omit cents) (Do not include assessments levied by *mutual companies, systems* or *lines*, or amounts paid to other companies for switching service.)	D-4
8. *Mutual companies.*—Report the total amount of assessments levied during 1937 for the operation and maintenance of your entire line or system ..... $.....	D-5
9. What was the total amount invested in your entire line or system to December 31, 1937? ..... $..... (The total should represent the cost of all poles, wire, telephones, etc. If poles, etc., were contributed or set up by individual subscribers, include an estimate of the value of such material and labor.)	D-6

(OVER)

11—11956

(Mutual Companies and Cooperative Associations ONLY should answer Inquiry 10)

	Key
10. Are one-half or more of all telephones on your line or system located on farms? ..... (Yes or no)	D-7

11. Does your line or system connect with any "central" or switchboard for telephone service? ..... (Yes or no) If so, what company, system, or line owns it? .....

What is the post-office address of the "central" or switchboard?

City or town ..... County ..... State .....

CERTIFICATE

This is to certify that the information contained in this report is complete and correct to the best of my knowledge and belief, and it covers the period from ..... 193...

to ..... 193...

.....
(Signature and official designation of the person furnishing the information)

.....
(Address of person furnishing the information)

REMARKS: .....

5—9008

U. S. GOVERNMENT PRINTING OFFICE 11—11908

CONFIDENTIAL GOVERNMENT REPORT--PLEASE RETURN PROMPTLY

Your reports are CONFIDENTIAL. By Acts of Congress, any information in regard to yourself or your business supplied to the Census Bureau for statistical purposes is confidential. No one except a sworn Census employee can see your returns. They are not available to any other Government agency, and cannot be used for purposes of investigation, regulation, or taxation. They are used solely for preparing statistical information on the Nation's population, resources, and business activities.

Form 2522 M

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

File No. _____

CENSUS OF TELEPHONES, 1937

RADIOTELEPHONES

This schedule is to be used by all companies or systems licensed by the United States to engage in the reception and transmission of commercial radiotelephone communications in the public service.

AUTHORIZATION

An act of Congress, approved June 7, 1906, authorizes the Director of the Census to collect and publish, every fifth year, statistics relating to the electrical industries. An act of Congress, approved March 3, 1919, provides that it shall be the duty of every owner, official, agent, person in charge, or assistant to the person in charge of any company or establishment covered by the Census inquiries, to supply the information called for by schedules prepared in conformity with the requirements of the Census laws.

William Lane Austin,
Director of the Census.

IMPORTANT -- Please read instructions on the last page before beginning the preparation of your report.

Name of company or system _____

Address of business office { Street and number _____
City or town _____ State _____

CERTIFICATE

THIS IS TO CERTIFY that the information contained in this report is complete and correct to the best of my knowledge and belief, and it covers the period from _____, 193 , to _____, 193

(Signature and official designation of the person furnishing the information)

(Address of person furnishing the information)

The statistics should relate to the calendar year ending December 31, 1937.
(Each question should be answered. If not applicable, write "None")

1. CHARACTER OF OWNERSHIP _____
(State the form of ownership as it existed on the last day of the year covered by the report, whether individual, firm or partnership, incorporated company, or other form)

2. NUMBER OF RADIOTELEPHONE STATIONS USED IN COMMERCIAL RADIOTELEPHONE COMMUNICATION SERVICE AS OF DECEMBER 31, 1937 ..... _____
(The term "station" refers to a complete transmitting and receiving system operated as a unit used in radiotelephone service)

3. RADIO LINK REVENUES ACCRUING TO THE RESPONDENT DURING 1937. Report the amount of radiotelephone operating revenues accruing to the respondent and applicable to the radio link used in connection with transmitting the calls. Include under "Miscellaneous" the total revenues from operations other than transmission.

Domestic $_____ (omit cents) Foreign (exclusive of Ship) $_____ (omit cents)

Ship $_____ (omit cents) Miscellaneous $_____ (omit cents)

4. ESTIMATED NUMBER OF COMMERCIAL RADIOTELEPHONE CALLS DURING 1937. Estimate the total number of completed commercial radiotelephone calls, transmitted or received as specified, by the radiotelephone apparatus and equipment operated by the reporting company.

Class of Calls	Number
(A) TRAFFIC ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--	
DOMESTIC (Calls subject to TWO-POINT SERVICE regulations):	
Within the United States---Calls either originating with respondent or received from connecting wire carriers which are transmitted by radio by respondent	_____
United States with Alaska---Calls either originating with respondent or received from connecting wire carriers which are transmitted by radio outbound from the United States by the respondent and all inbound calls which are first received by radio in the United States by the respondent:	
Number inbound	_____
Number outbound	_____
Between Adjacent Countries and Alaska---Calls relayed in the United States by the respondent either by transmitting by radio the call outbound from the United States or by first receiving by radio the inbound call in the United States	_____
FOREIGN (Calls subject to OVERSEAS regulations):	
United States with Foreign* (not adjacent) Countries---Calls either originating with respondent or received from connecting wire carriers which are transmitted by radio outbound from the United States by the respondent and all inbound calls which are first received by radio in the United States by the respondent:	
Number inbound	_____
Number outbound	_____

*Including Outlying United States Territories and Possessions but excluding Alaska.

4. ESTIMATED NUMBER OF COMMERCIAL RADIOTELEPHONE CALLS DURING 1937.---Continued

Class of Calls	Number
(A) TRAFFIC ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--(Continued)	
FOREIGN (Calls subject to OVERSEAS regulations): (Continued)	
Between Foreign* (not adjacent) Countries and between Adjacent Countries and Foreign* (not adjacent) Countries.	
Calls relayed in the United States by the respondent either by transmitting by radio the call outbound from the United States or by first receiving by radio the inbound call in the United States	_____
SHIPS:	
United States with Ships---Calls either originating with respondent or received from connecting wire carriers which are transmitted by radio outbound from the United States by the respondent and all inbound calls which are first received by radio in the United States by the respondent---	
Calls other than transiting subject to OVERSEAS regulations:	
Number inbound	_____
Number outbound	_____
Calls other than transiting subject to COASTAL AND HARBOR regulations:	
Number inbound	_____
Number outbound	_____
Transiting Calls---Calls relayed in the United States by the respondent which were received from ships or points in adjacent or foreign countries and which were transmitted by radio outbound from the United States to ships, and vice versa:	
Calls relayed subject to OVERSEAS regulations	_____
Calls relayed subject to COASTAL AND HARBOR regulations	_____
(B) TRAFFIC NOT ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES SHIP LICENSEES---Calls not originating, terminating, or relayed in the United States---(Traffic involving the United States will be reported by the carriers operating in the United States)	
Intership---Calls originating and terminating calls received from ships not licensed by the United States, subject to OVERSEAS regulations...	_____
With Adjacent and Foreign Countries including Outlying United States Territories and Possessions but excluding Alaska, Hawaii, and Puerto Rico. Calls originating and terminating calls received:	
Calls subject to OVERSEAS regulations	_____
Calls subject to COASTAL AND HARBOR regulations	_____
(C) TRAFFIC NOT ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES LICENSEES IN ALASKAN SERVICE---Calls subject to TWO-POINT, OVERSEAS, or COASTAL AND HARBOR regulations not originating, terminating, or relayed in the United States---(Traffic involving the United States will be reported by the carriers operating in the United States)	
Within Alaska---Originating only---Calls subject to TWO-POINT or DOMESTIC regulations	_____
Alaska with Ships---Calls originating and terminating calls received, subject to COASTAL AND HARBOR regulations	_____

*Including Outlying United States Territories and Possessions but excluding Alaska.

4. ESTIMATED NUMBER OF COMMERCIAL RADIOTELEPHONE CALLS DURING 1937.---Continued

Class of Calls	Number
(D) TRAFFIC NOT ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES LICENSEES IN HAWAIIAN AND PUERTO RICAN SERVICE (Calls subject to TWO-POINT, OVERSEAS, or COASTAL AND HARBOR regulations not originating, terminating, or relayed in the United States. (Traffic involving the United States will be reported by the carriers operating in the United States)	
Within Hawaii or Puerto Rico---Originating only---Calls subject to TWO-POINT or DOMESTIC regulations	_____
Hawaii or Puerto Rico with Other Countries Including Outlying United States Territories and Possessions but Excluding the United States---Calls originating, terminating calls received, and calls relayed in Hawaii or Puerto Rico between other countries:	
Calls subject to TWO-POINT or DOMESTIC regulations	_____
Calls subject to OVERSEAS regulations	_____
Hawaii or Puerto Rico with Ships---Calls originating, terminating calls received, and calls relayed in Hawaii or Puerto Rico between ships not licensed by the United States or between ships not licensed by the United States and other countries:	
Calls subject to OVERSEAS regulations	_____
Calls subject to COASTAL AND HARBOR regulations	_____

INSTRUCTIONS FOR PREPARING REPORT

The report should cover operations for the calendar year January 1, 1937, to December 31, 1937. Please prepare and send the report promptly. If the report for your radiotelephone system cannot be prepared at your office, please return the schedule immediately to the Bureau of the Census and give the name and address of the office, or person, to whom it should be sent. If the company to which this communication is addressed went out of business or was consolidated with another company prior to 1937, please make a statement to that effect on the schedule and return it to this Bureau. In case of transfer of ownership, give the name and address of the successor and the date of transfer. If operations were begun or discontinued during the year 1937, a report covering the period of such operations is required, with the first and last day of operation during 1937 specified in the certificate.

Inquiry 4. Estimated Number of Commercial Radiotelephone Calls During 1937.---Section (A) of this inquiry is applicable only to radiotelephone stations located in the CONTINENTAL UNITED STATES; section (B) to ship stations; section (C) to radiotelephone stations located in Alaska; and section (D) to radiotelephone stations in Hawaii and Puerto Rico.

Commercial calls include those subject to the commercial rate, government rate, contract rate, and free.

"United States" means the several States and the District of Columbia.

"Adjacent countries" refers to Alaska, Canada, Cuba, Mexico, and other points with which calls are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

"Domestic" refers to calls: (a) Between points within the United States; (b) between points in the United States and points in "adjacent countries"; (c) between points in "adjacent countries" which calls are relayed in the United States; and (d) any other calls that are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

"Foreign" refers to calls, not included under the "Domestic" classification, which are accepted and transmitted in accordance with the respondent's rules and regulations governing INTERNATIONAL transmission.

CONFIDENTIAL GOVERNMENT REPORT—PLEASE RETURN PROMPTLY

Your reports are CONFIDENTIAL. By acts of Congress, any information in regard to yourself or your business supplied to the Census Bureau for statistical purposes is confidential. No one except a sworn Census employee can see your returns. They are not available to any other Government agency, and cannot be used for purposes of investigation, regulation, or taxation. They are used solely for preparing statistical information on the Nation's population, resources, and business activities.

Form 2530 M

File No. _____

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

CENSUS OF TELEGRAPHS, 1937

Commercial telegraph systems (land and ocean cable) must be reported on this schedule

AUTHORIZATION

An act of Congress, approved June 7, 1906, authorizes the Director of the Census to collect and publish every fifth year, statistics relating to the electrical industries. An act of Congress, approved March 3, 1919, provides that it shall be the duty of every owner, official, agent, person in charge, or assistant to the person in charge of any company or establishment covered by the Census inquiries, to supply the information called for by schedules prepared in conformity with the requirements of the Census laws.

WILLIAM LANE AUSTIN,
Director of the Census.

IMPORTANT.—Please read instructions on the last page before beginning the preparation of your report.

Name of company or system _____

Address of general office: Street and number _____
City or town _____ State _____

The statistics should relate to the calendar year ending December 31, 1937.

1. CHARACTER OF OWNERSHIP. (State the form of ownership as it existed on the *last day of the year* covered by the report, whether individual; firm or partnership, incorporated company, or other form) _____

2. NATURE OF BUSINESS: (a) Land telegraph _____ (Yes or no) (b) Ocean telegraph _____ (Yes or no) (c) Railway telegraph _____ (Yes or no) (d) Radiotelegraph _____ (Yes or no) (e) Telephone business _____ (Yes or no)

3. If a consolidated company, give names and addresses of companies acquired since 1932 and covered by this report: _____

4. If a subsidiary or leased company, give name and address of operating company or lessee: _____

The statistics should relate to the calendar year ending December 31, 1937
(Each question should be answered. If not applicable, write "None")

5. MILES OF POLE LINE AND SINGLE WIRE DECEMBER 31, 1937.—(The answers to this inquiry should show the total number of miles of pole line and wire in operation or ready for operation. If actual length is not known, give careful estimate. If several wires are carried on one line of poles or in one conduit or cable, count length of each wire separately.)

	Miles of pole line	Miles of single wire
Aggregate		
Aerial, total		
Owned		
Leased or controlled		
Underground	x x x x x x	
Submarine, excluding ocean cable	x x x x x x	

6. Nautical miles of ocean cable _____

7. Nautical miles of single wire in ocean cable _____

8. NUMBER OF INDEPENDENT AND JOINT TELEGRAPH OFFICES, DECEMBER 31, 1937.

Operated solely by reporting company _____

Operated jointly with other companies _____

Total number of telegraph offices _____

9. ESTIMATED NUMBER OF MESSAGES DURING 1937.
(Do not include service messages)

Messages	Government	Commercial rate (other than Government)	Contract	Free
DOMESTIC				
Within United States—originating only				
United States with adjacent countries (messages subject to DOMESTIC regulations):				
Number inbound				
Number outbound				
Between adjacent countries—relayed in the United States (messages subject to DOMESTIC regulations):				
Number inbound				
Number outbound				
Domestic haul of foreign or ship messages:				
Number inbound (terminating in the United States)				
Number outbound (originating in the United States)				
Number relayed (transiting the United States)				
FOREIGN—CABLE				
United States with foreign (not adjacent) countries, including outlying United States Territories and possessions but excluding Alaska (messages other than transiting subject to INTERNATIONAL regulations):				
Number inbound				
Number outbound				
In foreign or ship traffic—relayed in the United States (messages subject to INTERNATIONAL regulations):				
Number inbound				
Number outbound				

The statistics should relate to the calendar year ending December 31, 1937
(Each question should be answered. If not applicable, write "None")

FINANCIAL STATISTICS

(Omit cents)

10. Telegraph and cable operating revenues during 1937 (I. C. C. Account 500) ..... $.....

11. Revenues from transmission—telegraph, during 1937 (I. C. C. Accounts 500–507) ..... $.....

12. Revenues from transmission—cable, during 1937 (I. C. C. Accounts 510–513) ..... $.....

	Federal	Other	Total
13. Taxes assignable to operations during the year 1937 (I. C. C. Account 305. Do not include taxes on messages)	$.....	$.....	$.....

14. Investment in plant and equipment, December 31, 1937 (I. C. C. Accounts 100–102) ..... $.....

	Cash	Other	Total
15. Dividends paid during 1937 (I. C. C. Accounts 331 and 413)	$.....	$.....	$.....

16. Dividend income received during 1937 (I. C. C. Account 312) ..... $.....

17. Rents paid during 1937 (I. C. C. Accounts 320, 321, 607, and 625) ..... $.....

18. Rents received during 1937 (I. C. C. Accounts 310, 311, 520, and 521) ..... $.....

19. Pensions and sickness and accident benefits paid to employees during 1937 ..... $.....

20. Funded debt as of (I. C. C. Account 154)—January 1, 1937 ..... $.....
December 31, 1937 ..... $.....

21. Interest paid on funded debt during 1937 (I. C. C. Account 322) ..... $.....

22. Investment in interest-bearing securities as of—January 1, 1937 ..... $.....
December 31, 1937 ..... $.....

23. Interest income during 1937 (I. C. C. Account 313) ..... $.....

EMPLOYEES, SALARIES, AND WAGES

24. Number of employees, including salaried officers, and including part-time and temporary employees, in service at the end of June 1937, and at the end of December 1937.

Class	Number of employees in service at end of month named	
	June	December
Salaried employees (salaried officers of corporation, superintendents, managers, clerks, stenographers, etc.)		
Wage earners:		
Operators:		
Male		
Female		
All other wage earners (Do not include those engaged exclusively on additions or extensions)		

25. Total salaries and wages paid to all employees during 1937 (Including employees' contributions for Social Security purposes) ..... $.....

CERTIFICATE

This is to certify that the information contained in this report is complete and correct to the best of my knowledge and belief, and it covers the period from ....., 193..., to ....., 193...

.....
(Signature and official designation of the person furnishing the information)

.....
(Address of person furnishing the information)

INSTRUCTIONS FOR PREPARING REPORT

Please read these instructions carefully before beginning the preparation of your report. Each inquiry on the schedule should be answered. If not applicable, write "None." Financial statistics should be reported in whole dollars, omitting cents. The account numbers of the uniform system of accounts prescribed by the Interstate Commerce Commission and adopted by the Federal Communications Commission are indicated in parentheses to aid in reporting data for the various items.

The report should cover operations for the calendar year January 1, 1937, to December 31, 1937. Please prepare and send the report promptly. If the report for your telegraph system cannot be prepared at your office, please return the schedule immediately to the Bureau of the Census and give the name and address of the office, or person, to whom it should be sent. If the company to which this communication is addressed went out of business or was consolidated with another company prior to 1937, please make a statement to that effect on the schedule and return it to this Bureau. In case of transfer of ownership, give the name and address of the successor and the date of transfer. If operations were begun or discontinued during the year 1937, a report covering the period of such operations *is required*, with the first and last day of operation during 1937 specified in the certificate.

INQUIRY 9. ESTIMATED NUMBER OF MESSAGES DURING 1937.—For the purposes of this inquiry, the following definitions and instructions are given:

"United States" means the several States and the District of Columbia.

"Adjacent countries" refers to Mexico, Canada, Alaska, Newfoundland, Miquelon Island, and other points with which messages are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

"Domestic" refers to message: (*a*) Between points within the United States; (*b*) between points in the United States and points in "adjacent countries"; (*c*) between points in "adjacent countries," which messages are relayed in the United States; and (*d*) any other messages that are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

"Foreign" refers to messages, not included under the "Domestic" classification, that are accepted and transmitted in accordance with the respondent's rules and regulations governing INTERNATIONAL transmission, between points in the United States and points outside the United States, and between points both of which are outside the United States, which messages are relayed in the United States.

"Domestic haul of a foreign or ship message" refers to the transmission within the United States of a foreign or ship message originating in, terminating in, or transiting the United States by being relayed therein.

Report *all messages originating* at the offices operated by the *respondent* and transmitted by the respondent to destination. Messages between points in the United States handled jointly with other carriers should be reported only by, and classified according to the class of service rendered by, the carrier in whose office the message originates. Messages between points in the United States and points outside the United States handled jointly with other carriers should be reported by, and classified according to the class of service rendered by, the carrier who first receives the inbound message in the United States of who actually transmits the outbound message from the United States. In the traffic between points both lying *outside* the United States and adjacent countries, which traffic is relayed in the United States, the message should be reported by, and classified according to the class of service rendered by, the carrier who first receives the inbound message in the United States and also reported by, and classified according to the class of service rendered by, the carrier who actually transmits the message outbound from the United States.

The DOMESTIC haul of a foreign or ship message: (*a*) Originating in the United States should be reported only by the carrier last transmitting the domestic portion of the outbound foreign or ship message; (*b*) terminating in the United States should be reported only by the carrier first transmitting the domestic portion of the inbound foreign or ship message; and (*c*) transiting the United States by being relayed therein should be reported only by the carrier first transmitting the domestic portion of the transiting foreign or ship message.

INQUIRY 13. TAXES ASSIGNABLE TO OPERATIONS DURING THE YEAR 1937.—Covers all annual or other tax payments to Federal, State, county, municipal, school, and other district authorities. Do not include payments for special benefits conferred on the payor, such as special assessments for street improvements, etc. Report only taxes assignable to operations during 1937. Exclude taxes on telegraph messages. Social Security taxes assessed against the respondent should be reported, but the employees' share of such taxes should not be included.

INQUIRY 14. INVESTMENT IN PLANT AND EQUIPMENT, DECEMBER 31, 1937.—Covers investment in intangible capital (expenditures incident to organization, franchises, patent rights, etc.); right-of-way; land; buildings; telegraph equipment; messenger equipment; other equipment of telegraph offices; subscribers' equipment; pole lines; aerial, underground, and submarine telegraph cable; aerial wire; underground conduits; pneumatic tubes; floating equipment; railway equipment; cable equipment; other equipment of cable offices; cable lines; cable floating equipment; office furniture and fixtures; general shop equipment; general store equipment; general stable and garage equipment; general tools and implements; interest during construction; undistributed engineering and superintendence; undistributed law expenditures; taxes during construction; miscellaneous construction expenditures; and acquired property (not distributed to primary accounts).

REMARKS: .....

CONFIDENTIAL GOVERNMENT REPORT--PLEASE RETURN PROMPTLY

Your reports are CONFIDENTIAL. By Acts of Congress, any information in regard to yourself or your business supplied to the Census Bureau for statistical purposes is confidential. No one except a sworn Census employee can see your returns. They are not available to any other Government agency, and cannot be used for purposes of investigation, regulation, or taxation. They are used solely for preparing statistical information on the Nation's population, resources, and business activities.

Form 2531 M

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

File No. _____

CENSUS OF TELEGRAPHS, 1937

RADIOTELEGRAPHS

This schedule is to be used by all companies or systems licensed by the United States to engage in the reception and transmission of commercial radiotelegraph communications in the public service.

AUTHORIZATION

An act of Congress, approved June 7, 1906, authorizes the Director of the Census to collect and publish, every fifth year, statistics relating to the electrical industries. An act of Congress, approved March 3, 1919, provides that it shall be the duty of every owner, official, agent, person in charge, or assistant to the person in charge of any company or establishment covered by the Census inquiries, to supply the information called for by schedules prepared in conformity with the requirements of the Census laws.

William Lane Austin,
Director of the Census.

IMPORTANT -- Please read instructions on the last page before beginning the preparation of your report.

Name of company or system _____

Address of business office { Street and number _____
City or town _____ State _____

CERTIFICATE

THIS IS TO CERTIFY that the information contained in this report is complete and correct to the best of my knowledge and belief, and it covers the period from _____, 193 , to _____, 193

(Signature and official designation of the person furnishing the information)

_____ (Address of person furnishing the information)

The statistics should relate to the calendar year ending December 31, 1937.
(Each question should be answered. If not applicable, write "None")

1. CHARACTER OF OWNERSHIP _____
(State the form of ownership as it existed on the last day of the year covered by the report, whether individual, firm or partnership, incorporated company, or other form)

2. NUMBER OF RADIOTELEGRAPH STATIONS USED IN COMMERCIAL RADIOTELEGRAPH COMMUNICATION SERVICE AS OF DECEMBER 31, 1937..... _____
(The term "station" refers to a complete transmitting and receiving system operated as a unit used in radiotelegraph service)

3. RADIOTELEGRAPH OPERATING REVENUES DURING 1937. Report the total radiotelegraph operating revenues according to the following classes of service rendered. Include under "Miscellaneous" the total revenues from operations other than transmission.

Domestic $_____ (omit cents) Foreign (exclusive of Ship) $_____ (omit cents)

Ship $_____ (omit cents) Miscellaneous $_____ (omit cents)

4. ESTIMATED NUMBER OF COMMERCIAL RADIOTELEGRAPH MESSAGES DURING 1937.
(Do not include service messages)

Class of Messages	Number
(A) TRAFFIC ORIGINATING, TERMINATING, OR RELAYED IN THE UNITED STATES--	
DOMESTIC:	
Within United States--Originating only.....	_____
United States with Adjacent Countries, and Messages Transiting the United States between Adjacent Countries-- (Messages subject to DOMESTIC regulations)	
Number inbound including inbound transiting.....	_____
Number outbound including outbound transiting.....	_____
Domestic Haul of Foreign or Ship Messages--	
Number inbound including inbound transiting.....	_____
Number outbound including outbound transiting.....	_____
FOREIGN (Messages subject to INTERNATIONAL regulations):	
United States with Foreign* (not adjacent) Countries, and Messages Transiting the United States between Foreign* (not adjacent) Countries and between Adjacent and Foreign* Countries--	
Number inbound including inbound transiting.....	_____
Number outbound including outbound transiting.....	_____
United States with Ships--	
Number inbound including inbound transiting.....	_____
Number outbound including outbound transiting.....	_____

*Including Outlying United States Territories and Possessions but excluding Alaska.

4. ESTIMATED NUMBER OF COMMERCIAL RADIOTELEGRAPH MESSAGES DURING 1937.---Continued

Class of Messages	Number
(B) TRAFFIC NOT ORIGINATING,TERMINATING,OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES SHIP LICENSEES--Messages subject to INTERNATIONAL regulations--(Traffic involving the United States will be reported by the carriers operating in the United States)	
Intership--Messages originating,terminating messages received from ships not licensed by the United States,and messages relayed by the United States ship licensee between ships not licensed by the United States	
With Adjacent and Foreign** Countries--Messages originating,terminating messages received,and messages relayed by the United States licensee between ships not licensed by the United States and points in adjacent or foreign** countries	
(C) TRAFFIC NOT ORIGINATING,TERMINATING,OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES LICENSEES IN ALASKAN SERVICE--(Traffic involving the United States will be reported by the carriers operating in the United States)	
Within Alaska--Originating only--(Messages subject to DOMESTIC regulations)	
Alaska with Ships--Messages originating,terminating messages received, and messages relayed in Alaska between ships not licensed by the United States,or between ships not licensed by the United States and other countries. (Messages subject to INTERNATIONAL regulations)	
(D) TRAFFIC NOT ORIGINATING,TERMINATING,OR RELAYED IN THE UNITED STATES--TRAFFIC OF UNITED STATES LICENSEES IN HAWAIIAN OR PUERTO RICAN SERVICE--(Traffic involving the United States will be reported by the carriers operating in the United States)	
Within Hawaii or Puerto Rico--Originating only--(Messages subject to DOMESTIC regulations)	
Hawaii or Puerto Rico with Other Countries including Outlying United States Territories and Possessions but excluding the United States. Messages originating,terminating messages received,and messages relayed in Hawaii or Puerto Rico between other countries:	
Messages subject to DOMESTIC regulations	
Messages subject to INTERNATIONAL regulations	
Hawaii or Puerto Rico with Ships--Messages originating,terminating messages received,and messages relayed in Hawaii or Puerto Rico between ships not licensed by the United States or between ships not licensed by the United States and other countries. (Messages subject to INTERNATIONAL regulations)	

**Including outlying United States Territories and Possessions but excluding Alaska, Hawaii and Puerto Rico.

INSTRUCTIONS FOR PREPARING REPORT

Please read these instructions carefully before beginning the preparation of your report. Each inquiry on the schedule should be answered. If not applicable, write "None." Financial statistics should be reported in whole dollars, omitting cents.

The report should cover operations for the calendar year January 1, 1937, to December 31, 1937. Please prepare and send the report promptly. If the report for your radiotelegraph system cannot be prepared at your office, please return the schedule immediately to the Bureau of the Census and give the name and address of the office, or person, to whom it should be sent. If the company to which this communication is addressed went out of business or was consolidated with another company prior to 1937, please make a statement to that effect on the schedule and return it to this Bureau. In case of transfer of ownership, give the name and address of the successor and the date of transfer. If operations were begun or discontinued during the year 1937, a report covering the period of such operations is required, with the first and last day of operation during 1937 specified in the certificate.

Inquiry 4. Estimated Number of Commercial Radiotelegraph Messages During 1937.

Section (A) of this inquiry is applicable only to radiotelegraph stations located in the CONTINENTAL UNITED STATES; section (B) to ship stations; section (C) to radiotelegraph stations located in Alaska; and section (D) to radiotelegraph stations in Hawaii and Puerto Rico.

Commercial messages include messages sent at the commercial rate, government rate, contract rate, and free. Do not report service messages.

For the purposes of this inquiry, the following definitions and instructions are given:

"United States" means the several States and District of Columbia.

"Adjacent countries" refers to Mexico, Canada, Alaska, Newfoundland, Miquelon Island, and other points with which messages are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

"Domestic" refers to messages: (a) Between points within the United States; (b) between points in the United States and points in "adjacent countries"; (c) between points in "adjacent countries", which messages are relayed in the United States; and (d) any other messages that are accepted and transmitted in accordance with the respondent's rules and regulations governing DOMESTIC transmission.

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Report all messages originating at the offices operated by the respondent and transmitted by the respondent to destination. Messages between points in the United States handled jointly with other carriers should be reported only by, and classified according to the class of service rendered by, the carrier in whose office the message originates. Messages between points in the United States and points outside the United States handled jointly with other carriers should be reported by, and classified according to the class of service rendered by, the carrier who first receives the inbound message in the United States, or who actually transmits the outbound message from the United States. In the traffic between points both lying outside the United States and adjacent countries, which traffic is relayed in the United States, the message should be reported by, and classified according to the class of service rendered by, the carrier who first receives the inbound message in the United States and also reported by, and classified according to the class of service rendered by, the carrier who actually transmits the message outbound from the United States.

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