

**UNITED STATES DEPARTMENT OF LABOR**

W. N. DOAK, SECRETARY

**WOMEN'S BUREAU**

MARY ANDERSON, Director

BULLETIN OF THE WOMEN'S BUREAU, NO. 83

**FLUCTUATION OF EMPLOYMENT  
IN THE RADIO INDUSTRY**

BY

CAROLINE MANNING



SERVANTS OF INDIA SOCIETY'S  
BRANCH LIBRARY  
BOMBAY

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LETTER OF TRANSMITTAL

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UNITED STATES DEPARTMENT OF LABOR,  
WOMEN'S BUREAU,  
Washington, December 10, 1930.

SIR: I have the honor to submit herewith a report on the fluctuation of employment in the radio industry in 1929 and such earlier years as could be studied from the employment records of manufacturing firms. The purpose of the survey was to discover whether the condition of severe depression in the industry at the close of 1929, that came to the attention of bureau investigators in connection with another study, was local or typical of the radio industry in general, and whether the year was representative or abnormal.

Employment records were obtained from 26 firms making receiving sets, from 15 making tubes, and from 10 making parts or accessories. It is estimated that the figures cover plants that produced 80 to 90 per cent of the sets and at least 90 per cent of the tubes made in 1929. The data on parts and accessories are less inclusive but are fairly representative.

The cooperation of employers, who courteously made available to the bureau the whole of their material showing employment fluctuation and in a number of cases gave assistance in the compiling and copying of such records, is gratefully acknowledged.

The study was made and the report has been written by Caroline Manning, industrial supervisor of the Women's Bureau.

Respectfully submitted.

MARY ANDERSON, *Director.*

HON. W. N DOAK,  
*Secretary of Labor.*

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**TUBES, PLANTS 24 TO 34.**

**PARTS AND ACCESSORIES, PLANTS 39 TO 41.<sup>2</sup>**

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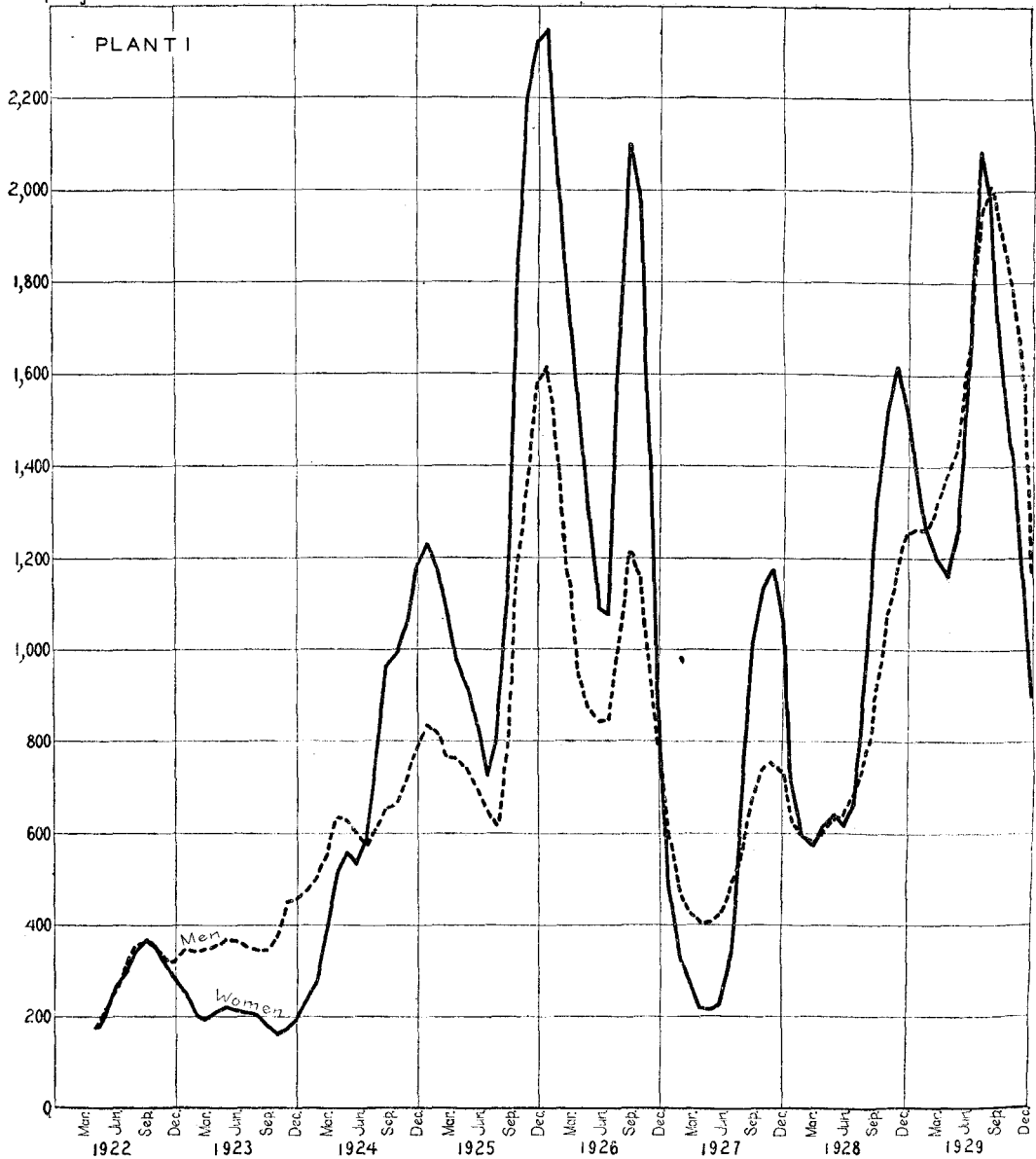
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<sup>1</sup> For special plants see pp. 8 to 13.

<sup>2</sup> For plants 35 to 38 see pp. 22 and 23.

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Numbers  
employed



## APPENDIX—TABLES AND CHARTS

### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

PLANT 1, 1922 to 1929.

Month	1922			1923			1924			1925		
	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en
January.....				598	347	251	709	474	235	2,063	832	1,231
February.....				544	342	202	778	502	276	1,993	819	1,174
March.....				542	346	196	938	558	380	1,841	763	1,078
April.....	336	176	160	565	355	210	1,150	633	517	1,740	763	977
May.....	422	215	207	596	371	225	1,190	630	580	1,656	741	915
June.....	523	258	265	579	363	216	1,136	600	536	1,530	696	834
July.....	613	316	297	565	356	209	1,159	575	584	1,372	645	727
August.....	696	354	342	549	345	204	1,422	617	805	1,414	619	795
September.....	731	364	367	522	343	179	1,617	654	963	1,888	773	1,115
October.....	712	356	356	534	371	163	1,666	670	996	3,025	1,180	1,845
November.....	637	324	313	629	455	174	1,784	724	1,060	3,593	1,395	2,198
December.....	605	321	284	652	459	193	1,962	785	1,177	3,896	1,579	2,317
Average.....	618	314	304	573	372	201	1,296	620	676	2,158	896	1,262
Maximum.....	731	364	367	652	459	251	1,962	785	1,177	3,896	1,579	2,317
Minimum.....	336	176	160	522	342	163	709	474	235	1,372	619	727
Per cent minimum is of maximum.....	46.0	48.4	43.6	80.1	74.5	64.9	36.1	60.4	20.0	35.2	39.2	31.4

Month	1926			1927			1928			1929		
	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en
January.....	3,949	1,607	2,342	1,076	591	485	1,346	629	717	2,653	1,266	1,387
February.....	3,425	1,407	2,018	804	474	330	1,196	598	598	2,521	1,261	1,260
March.....	2,924	1,159	1,765	694	423	271	1,153	581	572	2,507	1,313	1,194
April.....	2,492	958	1,534	625	406	219	1,222	603	619	2,549	1,389	1,160
May.....	2,181	876	1,305	621	407	214	1,272	629	643	2,700	1,444	1,256
June.....	1,931	842	1,089	648	426	222	1,255	637	618	3,278	1,667	1,611
July.....	1,924	848	1,076	824	492	332	1,354	688	666	4,033	1,951	2,082
August.....	2,684	1,018	1,666	1,167	559	608	1,740	774	966	4,005	2,011	1,994
September.....	3,305	1,207	2,098	1,662	662	1,000	2,247	929	1,318	3,582	1,917	1,665
October.....	3,161	1,167	1,994	1,869	737	1,132	2,611	1,060	1,531	3,226	1,799	1,427
November.....	2,402	964	1,438	1,923	754	1,169	2,799	1,181	1,618	2,796	1,587	1,209
December.....	1,709	797	912	1,798	737	1,061	2,777	1,251	1,526	2,063	1,172	891
Average.....	2,684	1,075	1,609	1,153	558	595	1,756	802	954	3,005	1,571	1,434
Maximum.....	3,949	1,607	2,342	1,923	754	1,169	2,799	1,251	1,618	4,033	2,011	2,062
Minimum.....	1,709	797	912	621	406	214	1,153	581	572	2,063	1,172	891
Per cent minimum is of maximum.....	43.3	49.6	38.9	32.3	53.8	18.3	41.2	46.4	35.4	51.2	58.3	42.8

<sup>1</sup> Based on less than a 12-month record.



# 38 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

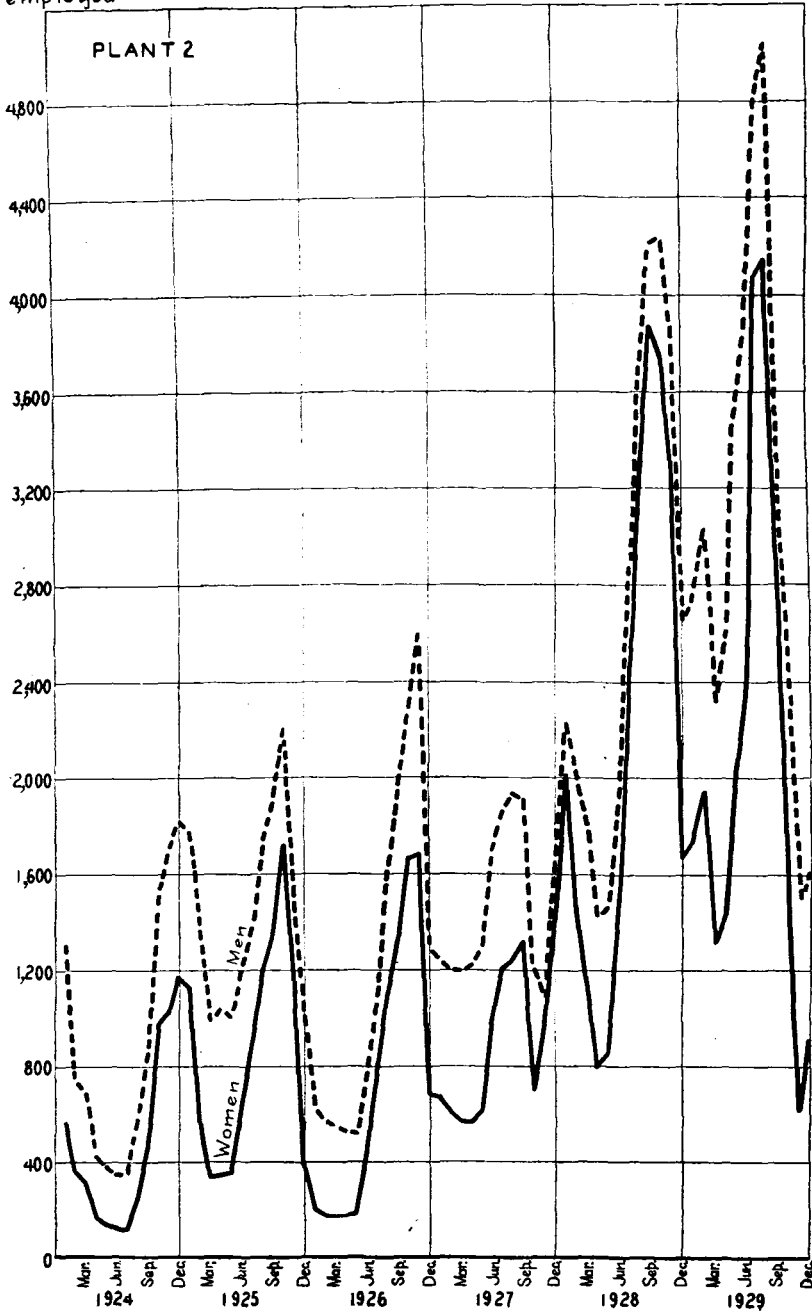
PLANT 2, 1924 to 1929.

Month	1924			1925			1926		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
January .....	1,868	1,301	567	2,903	1,776	1,127	845	643	202
February .....	1,112	758	354	1,954	1,372	582	754	576	178
March .....	1,006	693	313	1,328	993	335	730	554	176
April .....	693	437	166	1,387	1,042	345	709	535	174
May .....	532	386	146	1,354	1,002	352	703	526	177
June .....	475	350	125	1,876	1,232	644	1,244	795	449
July .....	471	351	120	2,288	1,381	907	1,949	1,129	820
August .....	846	581	265	2,944	1,746	1,198	2,719	1,606	1,113
September .....	1,326	863	463	3,252	1,896	1,356	3,323	1,964	1,359
October .....	2,492	1,520	972	3,929	2,201	1,728	3,940	2,270	1,670
November .....	2,744	1,720	1,024	2,563	1,448	1,115	4,276	2,590	1,686
December .....	3,002	1,824	1,178	1,420	1,024	396	1,991	1,308	683
Average .....	1,373	899	474	2,267	1,426	841	1,932	1,208	724
Maximum .....	3,002	1,824	1,178	3,929	2,201	1,728	4,276	2,590	1,686
Minimum .....	471	350	120	1,328	993	335	703	526	174
Per cent minimum is of maximum .....	15.7	19.2	10.2	33.8	45.1	19.4	16.4	20.3	10.3

Month	1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
January .....	1,918	1,243	675	4,236	2,231	2,005	4,491	2,745	1,746
February .....	1,809	1,202	607	3,443	1,981	1,462	4,994	3,037	1,957
March .....	1,768	1,198	570	2,935	1,766	1,169	3,637	2,319	1,318
April .....	1,787	1,220	567	2,221	1,425	796	4,048	2,603	1,445
May .....	1,912	1,296	616	2,325	1,470	855	5,538	3,491	2,047
June .....	2,703	1,704	999	3,454	1,934	1,520	6,215	3,839	2,376
July .....	3,075	1,862	1,213	5,349	2,876	2,473	8,884	4,809	4,075
August .....	3,185	1,937	1,248	6,999	3,707	3,292	9,198	5,046	4,152
September .....	3,236	1,911	1,325	8,078	4,206	3,872	5,707	3,219	2,488
October .....	1,934	1,234	700	7,972	4,239	3,733	3,614	2,281	1,333
November .....	2,093	1,094	999	7,103	3,860	3,243	2,109	1,496	613
December .....	2,956	1,533	1,423	4,319	2,654	1,665	2,524	1,614	910
Average .....	2,365	1,453	912	4,889	2,714	2,175	5,096	3,043	2,053
Maximum .....	3,236	1,937	1,423	8,078	4,239	3,872	9,198	5,046	4,152
Minimum .....	1,768	1,094	567	2,221	1,425	796	2,109	1,496	613
Per cent minimum is of maximum .....	54.6	56.5	39.8	27.5	33.6	20.6	22.9	29.6	14.8

Numbers  
employed



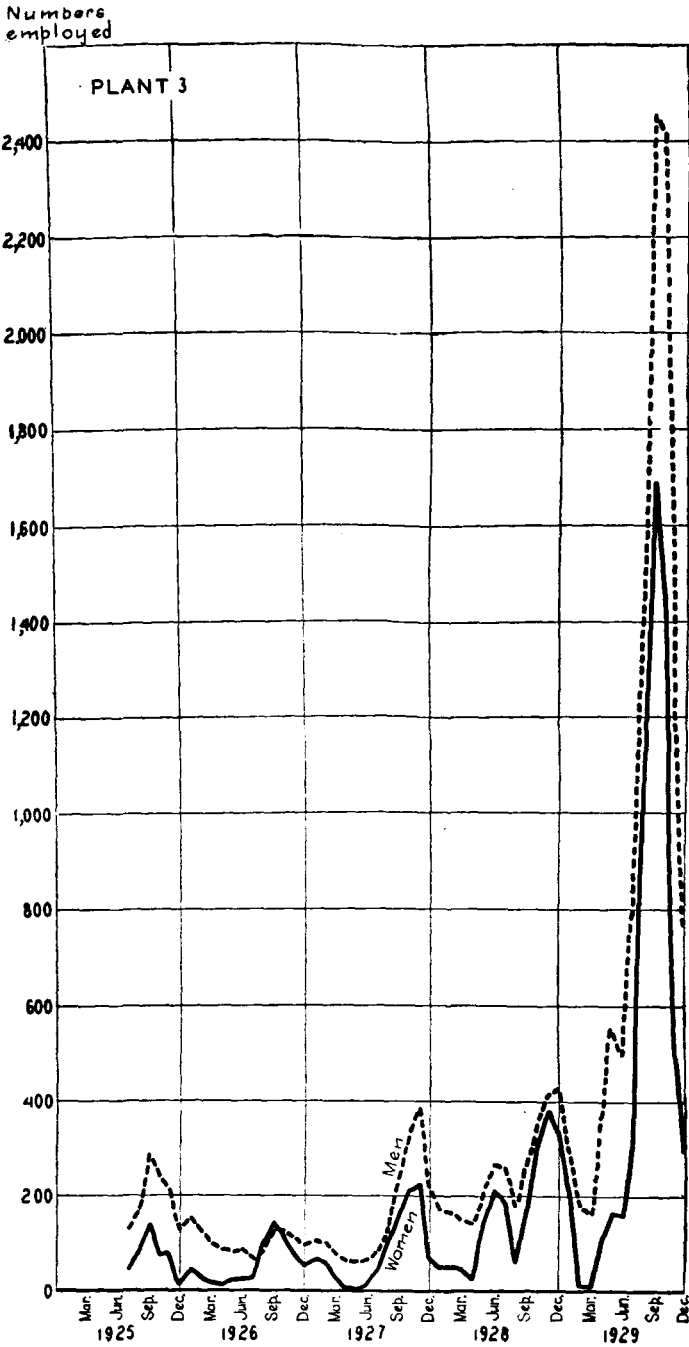
## 40 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

PLANT 3, 1925 to 1929.

Month	1925			1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January				199	155	44	169	105	64	225	174	51	515	308	207
February				154	126	28	165	103	62	220	168	52	192	181	11
March				113	100	13	108	81	27	201	151	50	177	168	9
April				101	90	11	69	64	5	167	144	23	482	370	112
May				105	85	20	69	64	5	351	205	146	724	559	165
June				109	87	22	82	69	13	481	268	213	659	499	160
July	174	130	44	97	70	27	136	88	48	444	260	184	1,076	770	306
August	257	173	84	187	86	101	244	133	111	242	179	632	409	1,449	960
September	430	289	141	271	127	144	385	224	161	431	268	165	4,139	2,452	1,687
October	319	242	77	242	129	113	538	324	214	653	346	307	3,861	2,413	1,448
November	297	217	80	194	113	81	615	385	230	790	412	378	1,690	1,187	503
December	150	134	16	156	99	57	296	221	75	764	429	335	1,065	769	296
Average	271	197	74	161	106	55	240	155	85	414	250	164	1,416	927	489
Maximum	430	289	141	271	155	144	615	385	230	790	429	378	4,139	2,452	1,687
Minimum	150	130	16	97	70	11	69	64	5	167	144	23	177	168	9
Per cent minimum is of maximum	34.9	45.0	11.3	35.8	45.2	7.6	11.2	16.6	2.2	21.1	33.6	6.1	4.3	6.9	0.5

<sup>1</sup> Based on less than a 12-month record.



## 42 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

PLANT 4, 1925 to 1929.

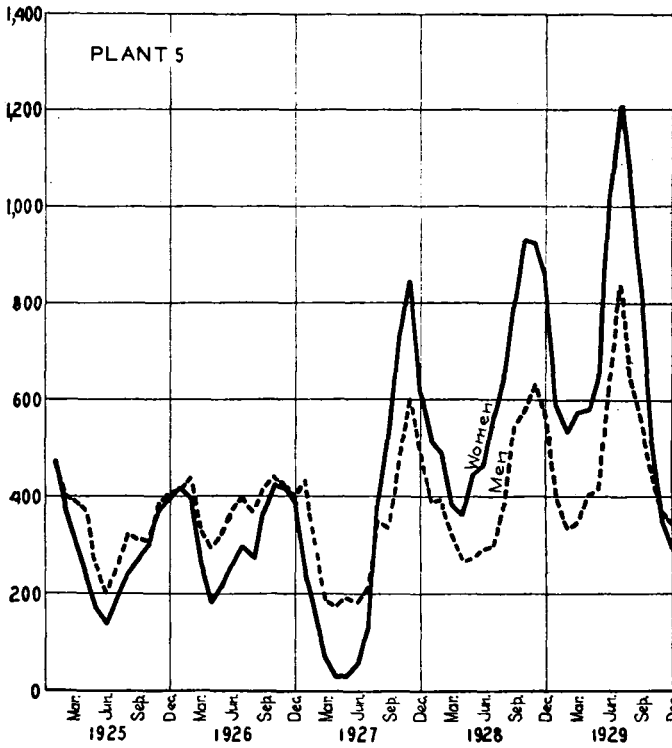
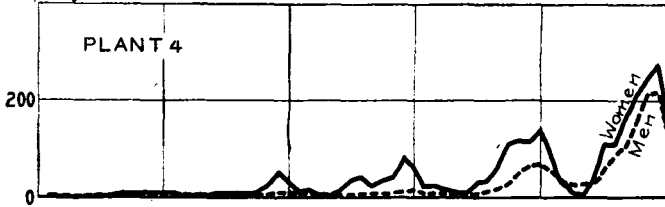
Month	1925			1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January	4	2	2	9	3	6	13	4	9	26	8	20	138	52	86
February	3	2	1	5	3	2	25	8	17	30	8	22	69	35	34
March	3	2	1	3	3	0	7	4	3	23	8	15	30	24	6
April	3	2	1	2	1	1	1	5	4	1	14	5	27	26	1
May	5	3	2	9	2	8	18	5	14	13	6	7	62	29	33
June	6	3	3	11	1	9	43	8	38	40	9	31	170	58	112
July	6	3	3	9	1	8	48	6	42	44	13	31	200	91	109
August	7	2	5	8	1	7	25	6	19	81	19	62	266	104	162
September	7	3	4	7	1	6	45	7	36	146	30	116	365	151	214
October	8	3	5	25	4	21	50	8	42	171	52	119	459	212	247
November	9	3	6	65	9	56	97	12	85	183	68	115	497	218	279
December	10	4	6	42	9	33	79	14	65	214	70	144	312	149	163
Average	6	3	3	17	3	14	38	7	31	82	25	57	217	96	121
Maximum	10	4	6	65	9	56	97	14	85	214	70	144	497	218	279
Minimum	3	2	1	2	1	0	5	4	1	13	5	7	27	24	1
Per cent minimum is of maximum	30.0	50.0	16.7	3.1	11.1	(1)	5.2	28.6	1.2	6.1	7.1	4.9	5.4	11.0	0.4

PLANT 5, 1925 to 1929.

January	943	470	473	831	414	417	673	432	241	904	391	513	989	401	588
February	766	401	365	839	440	399	464	302	162	890	396	494	870	336	534
March	708	394	314	606	337	269	254	187	67	712	329	383	918	347	571
April	607	374	233	474	292	182	204	177	27	635	270	365	981	401	580
May	427	257	170	537	324	213	223	193	30	718	271	447	1,066	416	650
June	339	200	139	622	367	255	237	184	53	760	293	467	1,659	633	1,026
July	442	254	188	692	398	294	344	212	132	864	297	567	2,043	835	1,208
August	564	323	241	646	370	276	738	351	387	1,028	379	649	1,677	652	1,025
September	595	316	279	786	417	369	873	336	537	1,347	544	803	1,395	566	829
October	613	313	300	863	441	422	1,207	476	731	1,515	578	937	971	455	516
November	763	386	377	847	429	418	1,445	600	845	1,561	634	927	728	373	355
December	805	407	398	783	396	387	1,105	491	614	1,437	572	865	641	347	294
Average	631	341	290	710	385	325	647	328	319	1,031	413	618	1,161	480	681
Maximum	943	470	473	863	441	422	1,445	600	845	1,561	634	937	2,043	835	1,208
Minimum	339	200	139	474	292	182	204	177	27	635	270	365	641	336	294
Per cent minimum is of maximum	35.9	42.6	29.4	54.9	66.2	43.1	14.1	29.5	3.2	40.7	42.6	39.0	31.4	40.2	24.3

<sup>1</sup> Minimum employment was zero.

Numbers employed



# 44 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

PLANT 6, 1926 to 1929.

Month	1926			1927			1928			1929		
	Total	Men	Wom-en	Total	Men	Wom-en	Total	Men	Wom-en	Total	Men	Wom-en
January.....	58	37	21	83	51	32	51	32	19	62	29	33
February.....	30	26	4	47	30	17	44	28	16	29	20	9
March.....	17	12	5	32	21	11	35	24	11	13	13	0
April.....	25	13	12	31	21	10	43	22	21	62	28	34
May.....	27	13	14	40	24	16	74	35	39	64	30	34
June.....	78	27	51	120	53	67	79	30	49	109	32	77
July.....	142	64	78	201	102	99	162	66	96	276	89	167
August.....	235	118	117	224	122	102	169	68	101	334	115	219
September.....	296	158	138	224	125	99	177	73	104	337	106	231
October.....	252	137	115	257	129	128	225	86	139	356	108	248
November.....	214	133	81	125	72	53	301	109	192	215	81	134
December.....	191	118	73	168	83	85	142	61	81	68	43	25
Average.....	130	71	59	132	71	61	124	52	72	161	58	103
Maximum.....	296	158	138	257	129	128	301	109	192	356	115	248
Minimum.....	17	12	4	31	21	10	35	22	11	13	13	0
Per cent minimum is of maximum.....	5.7	7.6	2.9	12.1	16.3	7.8	11.6	20.2	5.7	3.7	11.3	(1)

PLANT 7, 1926 to 1929.

January.....	16	15	1	65	50	15	79	74	5	147	97	50
February.....	36	19	17	93	64	29	105	95	10	146	102	44
March.....	25	15	10	99	68	31	115	100	15	161	107	54
April.....	30	18	12	102	80	22	110	97	13	173	125	48
May.....	31	19	12	59	54	5	122	106	16	207	148	59
June.....	35	21	14	104	76	28	293	176	117	573	404	169
July.....	41	24	17	150	106	44	375	231	144	889	675	214
August.....	45	26	19	230	165	65	396	236	160	818	625	193
September.....	84	37	47	275	190	85	340	212	128	532	373	159
October.....	107	64	43	408	297	111	322	206	114	450	362	88
November.....	203	107	96	434	339	95	284	181	103	248	200	48
December.....	109	61	48	111	99	12	200	145	55	122	109	13
Average.....	64	36	28	177	132	45	228	155	73	372	277	95
Maximum.....	203	107	96	434	339	111	396	236	160	889	675	214
Minimum.....	16	15	1	59	50	5	79	74	5	122	97	13
Per cent minimum is of maximum.....	7.9	14.0	1.0	13.6	14.7	4.5	19.9	31.4	3.1	13.7	14.4	6.1

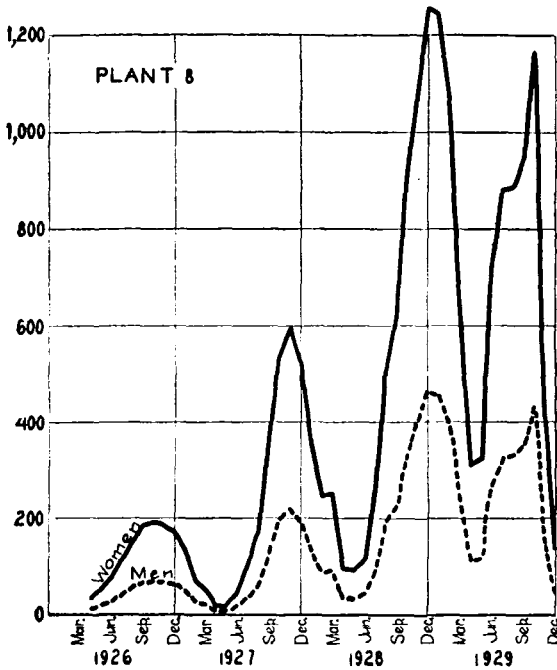
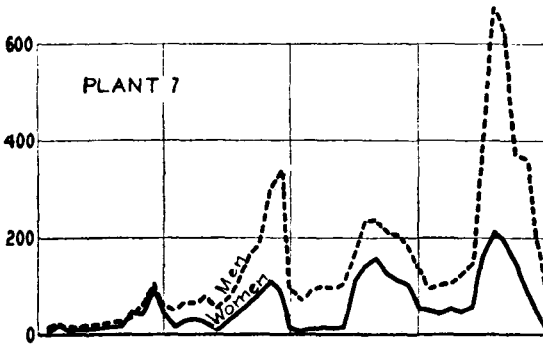
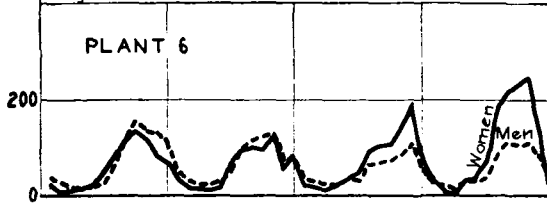
PLANT 8, 1926 to 1929.

January.....				190	51	139	484	131	353	1,705	460	1,245
February.....				100	27	73	336	91	245	1,458	394	1,064
March.....				71	19	52	343	93	250	883	238	645
April.....	47	13	34	25	7	18	132	36	96	428	115	312
May.....	74	20	54	25	7	18	128	35	93	442	119	323
June.....	106	29	77	60	17	43	164	44	120	978	264	714
July.....	158	43	115	134	36	98	354	96	258	1,208	326	882
August.....	211	57	154	238	64	174	691	187	594	1,223	330	893
September.....	255	69	186	502	136	366	846	228	618	1,304	352	952
October.....	260	70	190	732	198	534	1,234	333	901	1,596	431	1,165
November.....	257	70	187	817	221	596	1,490	402	1,088	566	153	413
December.....	241	65	176	731	197	534	1,718	464	1,254	187	49	138
Average.....	176	48	128	302	82	220	660	178	482	998	269	729
Maximum.....	260	70	190	817	221	596	1,718	464	1,254	1,705	460	1,245
Minimum.....	47	13	34	25	7	18	128	35	93	187	49	138
Per cent minimum is of maximum.....	18.1	18.6	17.9	3.1	3.2	3.0	7.5	7.5	7.4	11.0	10.7	11.1

<sup>1</sup> Minimum employment was zero.

<sup>2</sup> Based on less than a 12-month record.

Numbers  
employed





## 46 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

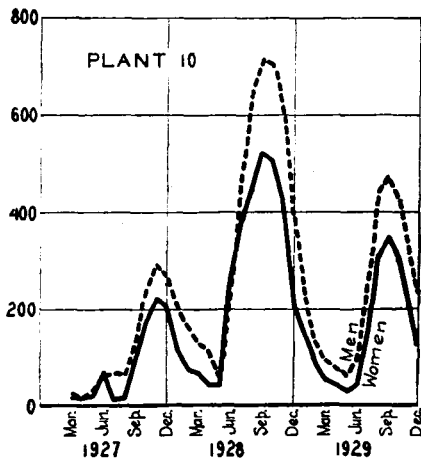
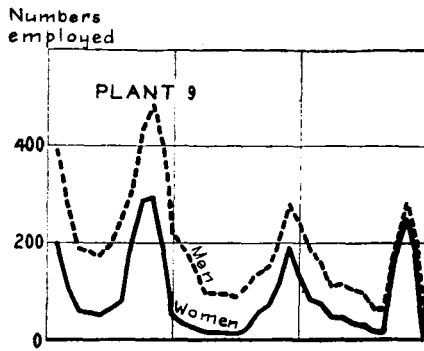
PLANT 9, 1927 to 1929.

Month	1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
January .....	591	391	200	221	190	31	266	185	81
February .....	377	276	101	173	151	22	227	161	76
March .....	245	187	58	115	100	15	160	115	45
April .....	239	183	56	111	97	14	159	117	42
May .....	227	175	52	105	94	11	141	105	36
June .....	260	197	63	100	90	10	127	97	30
July .....	331	250	81	136	112	24	87	68	19
August .....	521	319	202	198	139	59	85	67	18
September .....	727	438	289	224	154	70	364	194	170
October .....	780	486	294	324	211	113	534	283	251
November .....	586	396	190	471	281	190	389	203	186
December .....	276	223	53	380	244	136	27	25	2
Average .....	429	293	136	213	155	58	211	133	78
Maximum .....	780	486	294	471	281	190	534	283	251
Minimum .....	227	175	52	100	90	10	27	25	2
Per cent minimum is of maximum .....	29.1	36.0	17.7	21.2	32.0	5.3	5.1	8.8	0.8

PLANT 10, 1927 to 1929.

January .....				332	213	119	373	233	140
February .....				243	166	77	226	137	89
March .....	44	25	19	198	132	66	148	95	53
April .....	38	19	19	157	111	46	122	81	41
May .....	55	35	20	105	59	46	92	63	29
June .....	130	63	67	500	248	252	134	91	43
July .....	75	65	10	857	475	382	402	247	155
August .....	76	64	12	1,127	653	474	755	444	311
September .....	223	136	87	1,240	716	524	827	476	351
October .....	414	241	173	1,210	701	509	731	427	304
November .....	517	294	223	1,029	607	422	518	316	202
December .....	481	272	209	611	395	216	364	237	127
Average .....	221	130	91	632	372	260	398	241	157
Maximum .....	517	294	223	1,240	716	524	827	476	351
Minimum .....	38	19	10	105	59	46	92	63	29
Per cent minimum is of maximum .....	17.4	16.5	14.5	8.5	8.2	8.8	11.1	13.2	8.3

<sup>1</sup> Based on less than a 12-month record.

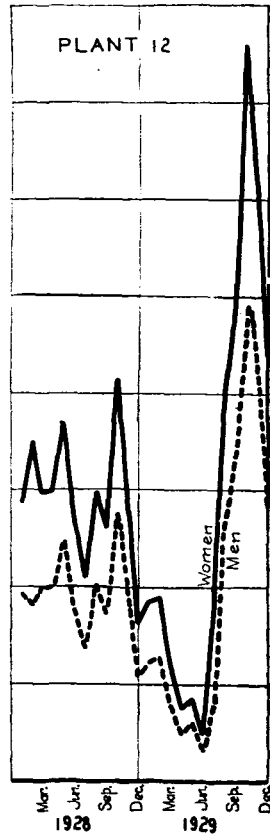
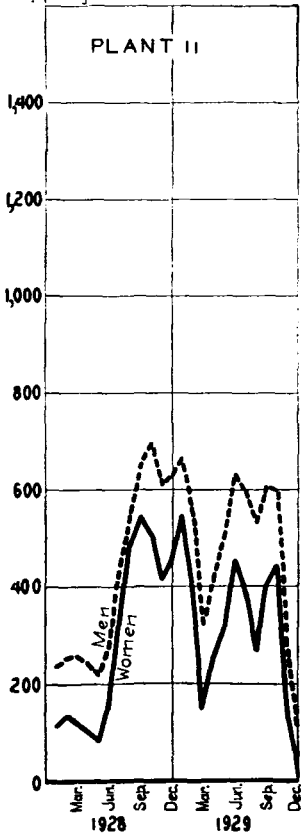


# 48 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

Month	PLANT 11, 1928 and 1929						PLANT 12, 1928 and 1929					
	1928			1929			1928			1929		
	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en
January .....	350	237	113	1,214	666	548	962	385	577	619	248	371
February .....	390	256	134	942	556	386	1,062	365	697	633	255	378
March .....	378	259	119	471	321	150	992	397	595	392	157	235
April .....	340	243	97	680	425	255	996	399	597	255	102	153
May .....	300	220	80	822	507	315	1,231	493	738	295	122	173
June .....	433	277	156	1,088	632	456	884	354	530	164	66	96
July .....	772	436	336	977	593	384	696	279	417	668	268	400
August .....	1,032	551	481	801	534	267	997	402	595	1,341	537	804
September .....	1,202	658	544	1,008	604	404	870	348	522	1,666	681	985
October .....	1,201	697	504	1,041	600	441	1,375	550	825	2,500	982	1,518
November .....	1,027	613	414	421	280	141	927	371	556	2,079	842	1,237
December .....	1,089	634	455	128	118	10	546	219	327	1,456	575	881
Average .....	711	424	287	816	495	321	961	380	581	1,006	403	603
Maximum .....	1,202	697	544	1,214	666	548	1,375	550	825	2,500	982	1,518
Minimum .....	300	220	80	128	118	10	546	219	327	164	66	98
Per cent minimum is of maximum .....	25.0	31.6	14.7	10.5	17.7	1.8	39.7	39.8	39.6	6.6	6.7	6.5

Numbers  
employed



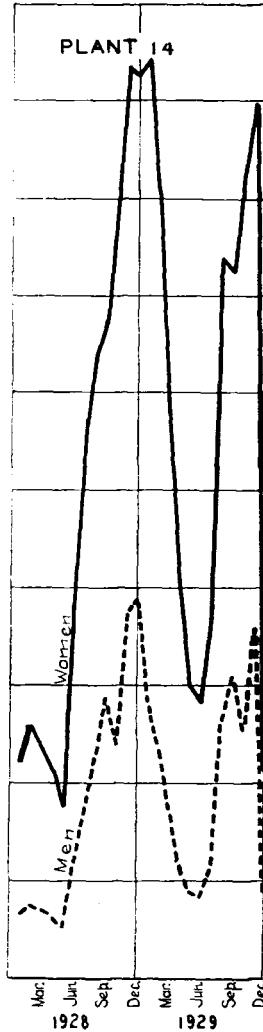
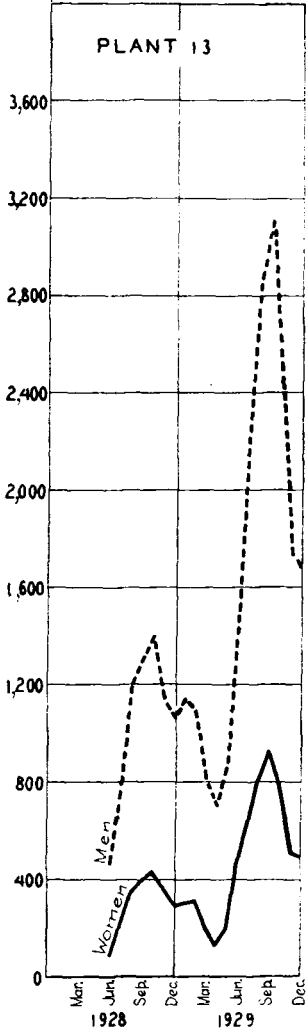
## 50 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

Month	PLANT 13, 1928 and 1929						PLANT 14, 1928 and 1929					
	1928			1929			1928			1929		
	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en	Total	Men	Wom- en
January.....				1,434	1,133	301	1,161	267	894	4,902	1,127	3,775
February.....				1,393	1,083	310	1,345	309	1,036	4,179	961	3,218
March.....				1,011	811	200	1,227	282	945	3,024	696	2,328
April.....				841	709	132	1,099	253	846	2,104	484	1,620
May.....				1,052	855	197	910	209	701	1,560	359	1,201
June.....	541	457	84	1,955	1,488	467	1,987	457	1,530	1,463	336	1,127
July.....	992	768	224	2,912	2,268	644	2,918	671	2,247	1,929	444	1,485
August.....	1,551	1,201	350	3,763	2,952	811	3,467	901	2,566	3,997	1,039	2,958
September.....	1,711	1,314	397	4,036	3,101	935	3,842	1,149	2,693	4,142	1,238	2,904
October.....	1,823	1,391	432	3,222	2,435	787	4,096	963	3,133	4,325	1,016	3,309
November.....	1,501	1,140	361	2,239	1,730	509	5,239	1,493	3,746	5,013	1,429	3,584
December.....	1,345	1,064	281	2,176	1,685	491	5,259	1,546	3,713	1,208	355	853
Average.....	1,374	1,064	310	2,194	1,707	487	2,713	709	2,004	3,154	790	2,364
Maximum.....	1,823	1,391	432	4,036	3,101	935	5,259	1,546	3,746	5,013	1,429	3,775
Minimum.....	541	457	84	841	709	132	910	209	701	1,208	336	853
Per cent minimum is of maximum.....	29.7	32.9	19.4	20.8	22.9	14.1	17.3	13.5	18.7	24.1	23.5	22.6

<sup>1</sup> Based on less than a 12-month record.

Numbers  
employed



## 52 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

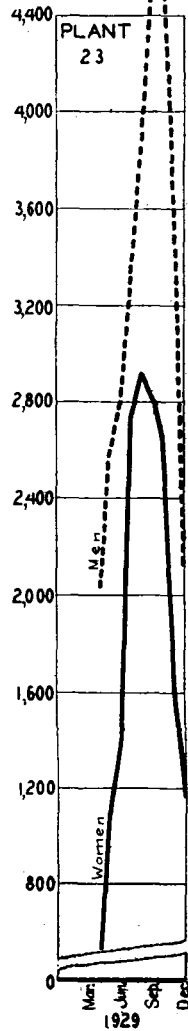
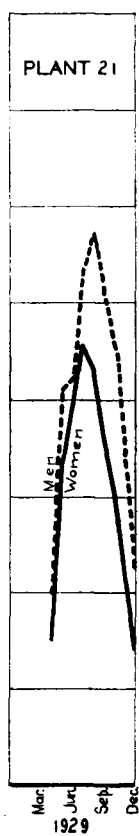
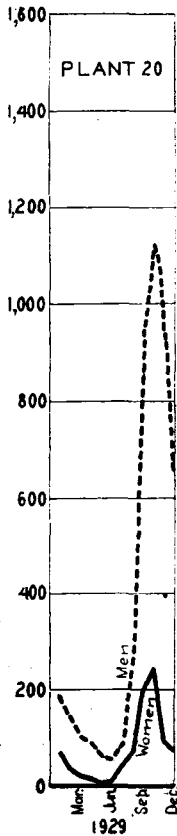
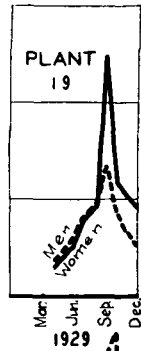
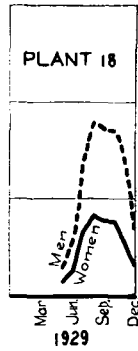
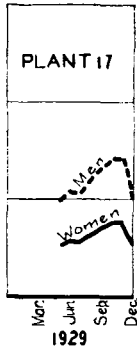
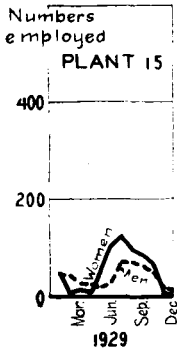
### FLUCTUATION IN EMPLOYMENT, RADIO RECEIVING SETS

PLANTS WITH 1929 FIGURES ONLY.

Month	PLANT 15			PLANT 16			PLANT 17			PLANT 18			PLANT 19		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January	87	43	44												
February	41	40	1												
March	36	23	13												
April	32	22	10										124	66	58
May	60	17	52	46	31	15	305	198	107	83	58	25	176	96	80
June	129	27	102	82	56	26	334	217	117	169	116	32	224	123	101
July	194	68	126	98	66	32	330	214	116	405	272	133	330	168	162
August	167	69	98	134	91	43	370	241	129	530	361	169	380	191	189
September	150	64	86	302	213	89	402	261	141	501	344	157	763	269	494
October	125	51	74	295	192	103	433	281	152	494	340	154	408	175	233
November	18	17	1	219	149	70	434	282	152	399	285	114	335	131	204
December	15	14	1	100	70	30	309	201	108	202	139	63	283	102	181
Average	89	38	51	158	107	51	365	237	128	353	243	110	336	147	189
Maximum	194	69	126	302	213	103	434	282	152	530	361	169	763	269	494
Minimum	15	14	1	46	31	15	305	198	107	83	58	25	124	66	58
Per cent minimum is of maximum	7.7	20.3	0.8	15.2	14.6	14.6	70.3	70.2	70.4	15.7	16.1	14.8	16.3	24.5	11.7

Month	PLANT 20			PLANT 21			PLANT 22			PLANT 23		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January	258	189	69									
February	174	144	30									
March	120	101	19									
April	102	88	14	698	398	300				2,544	2,020	524
May	66	64	2	1,490	817	673				3,715	2,580	1,135
June	64	57	7	1,624	843	781				4,204	2,802	1,402
July	128	85	43	1,985	1,066	919	114	94	20	6,065	3,360	2,725
August	324	254	70	2,007	1,141	866	419	284	135	6,919	4,000	2,919
September	1,142	945	197	1,747	1,018	729	1,205	775	430	7,356	4,554	2,802
October	1,366	1,123	243	1,501	905	596	2,122	1,355	767	7,305	4,641	2,664
November	1,040	946	94	1,105	682	423	1,335	864	471	5,061	3,464	1,597
December	730	656	74	738	454	284	254	179	75	3,298	2,133	1,165
Average	460	388	72	1,533	869	664	951	619	332	5,183	3,294	1,889
Maximum	1,366	1,123	243	2,007	1,141	919	2,122	1,355	767	7,356	4,641	2,919
Minimum	64	57	2	698	398	284	114	94	20	2,544	2,020	524
Per cent minimum is of maximum	4.7	5.1	0.8	34.8	34.9	30.9	5.4	6.9	2.6	34.6	43.5	18.0

<sup>1</sup> Based on less than a 12-month record.





# 54 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO TUBES

PLANT 24, 1921 to 1929.

Month	1921	1922	1923	1924			1925		
	Total <sup>1</sup>	Total <sup>1</sup>	Total <sup>1</sup>	Total	Men	Women	Total	Men	Women
January.....	(?)	53	77	285	29	256	270	27	243
February.....	(?)	71	80	287	26	261	272	24	248
March.....	50	113	137	288	29	259	273	27	246
April.....	50	(?)	176	284	26	258	256	23	233
May.....	(?)	(?)	188	270	24	246	246	22	224
June.....	46	(?)	194	233	21	212	233	21	212
July.....	45	238	189	211	21	190	236	24	212
August.....	(?)	138	187	205	18	187	187	17	170
September.....	42	144	199	224	18	206	248	20	228
October.....	42	115	229	247	20	227	283	23	260
November.....	40	(?)	238	261	23	238	333	30	303
December.....	49	73	261	278	28	250	335	34	301
Average.....			179	256	24	232	264	24	240
Maximum.....			261	288	29	261	335	34	303
Minimum.....			77	205	18	187	187	17	170
Per cent minimum is of maximum.....			29.5	71.2	62.1	71.6	55.8	50.0	56.1

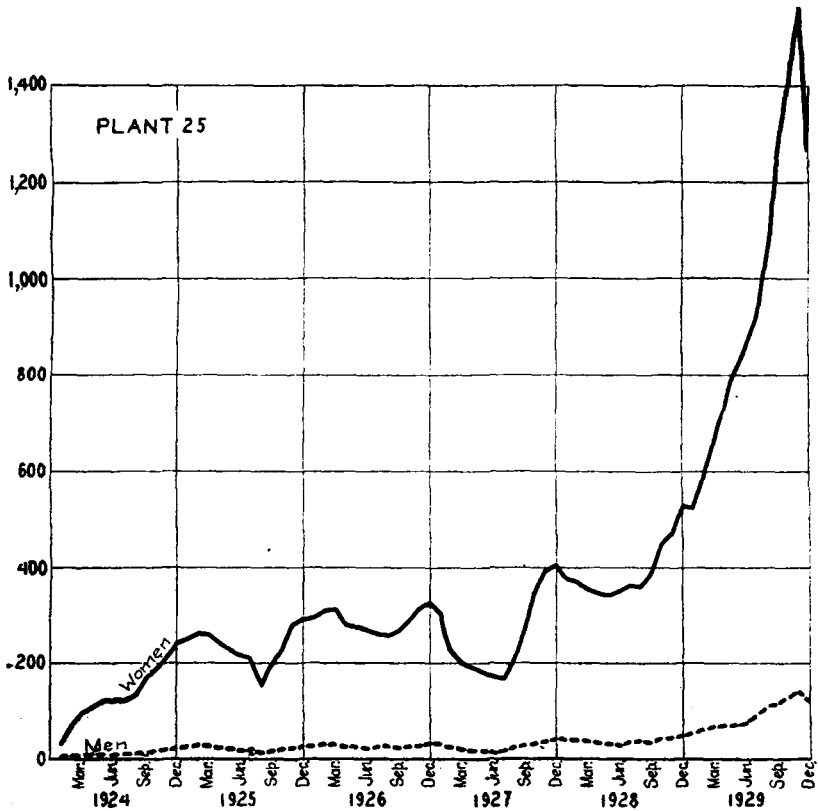
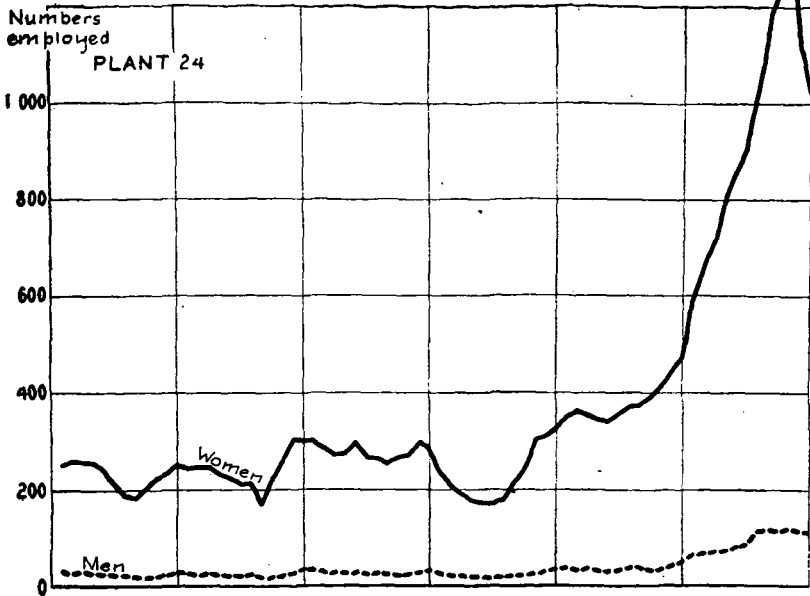
Month	1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January.....	335	34	301	264	26	238	393	39	354	658	66	592
February.....	314	28	286	229	21	208	400	36	364	735	66	669
March.....	302	30	272	213	21	192	391	39	352	787	75	712
April.....	300	27	273	196	18	178	374	34	340	890	79	811
May.....	327	29	298	191	17	174	373	34	339	943	83	860
June.....	294	26	268	190	17	173	393	35	358	1,000	85	915
July.....	295	30	265	201	20	181	414	41	373	1,154	115	1,039
August.....	281	25	256	237	21	216	408	37	371	1,299	118	1,181
September.....	292	23	269	263	21	242	425	34	391	1,356	115	1,241
October.....	297	24	273	335	27	308	447	36	411	1,451	122	1,329
November.....	329	30	299	347	31	316	489	44	445	1,235	116	1,119
December.....	324	32	292	366	37	329	525	53	472	1,137	111	1,026
Average.....	307	28	279	253	23	230	419	39	380	1,054	96	958
Maximum.....	335	34	301	366	37	329	525	53	472	1,451	122	1,329
Minimum.....	281	23	256	190	17	173	373	34	339	658	66	592
Per cent minimum is of maximum.....	83.9	67.6	85.0	51.9	45.9	52.6	71.0	64.2	71.8	45.3	54.1	44.5

PLANT 25, 1924 to 1929.

Month	1924			1925			1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January.....	33	3	30	277	25	252	329	30	299	335	31	304	415	38	377	578	53	525
February.....	80	8	72	292	27	265	343	32	311	251	24	227	409	38	371	647	61	586
March.....	110	10	100	288	27	261	348	32	316	220	20	200	391	36	355	731	68	663
April.....	123	11	112	265	24	241	306	27	279	212	19	193	381	34	347	805	72	733
May.....	135	11	124	248	21	227	301	26	275	200	17	183	376	32	344	881	75	806
June.....	135	11	124	235	19	216	292	24	268	189	15	174	383	31	352	933	76	857
July.....	136	13	123	226	21	205	291	27	264	186	17	169	400	37	363	1,010	93	917
August.....	154	15	139	169	16	153	286	27	259	226	21	205	399	38	361	1,187	113	1,074
September.....	191	16	175	215	18	197	293	25	268	299	26	273	421	36	385	1,388	119	1,269
October.....	213	18	195	252	21	231	316	26	290	365	32	353	490	41	449	1,533	127	1,406
November.....	237	20	217	310	26	284	346	29	317	435	37	398	516	43	473	1,706	143	1,563
December.....	266	23	243	321	28	293	360	31	329	443	38	405	578	50	528	1,389	120	1,269
Average.....	151	13	138	258	23	235	318	28	290	282	25	257	430	38	392	1,065	93	972
Maximum.....	266	23	243	321	28	293	360	32	329	443	38	405	578	50	528	1,706	143	1,563
Minimum.....	33	3	30	169	16	153	286	24	259	186	15	169	376	31	344	578	53	525
Per cent minimum is of maximum.....	12.4	13.0	12.3	52.6	57.1	52.2	79.4	75.0	78.7	42.0	39.5	54.1	76.5	62.0	65.2	33.9	37.1	33.6

<sup>1</sup> Data on sex not obtainable.

<sup>2</sup> Not obtainable.



# 56 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO TUBES

PLANT 26, 1924 to 1929.

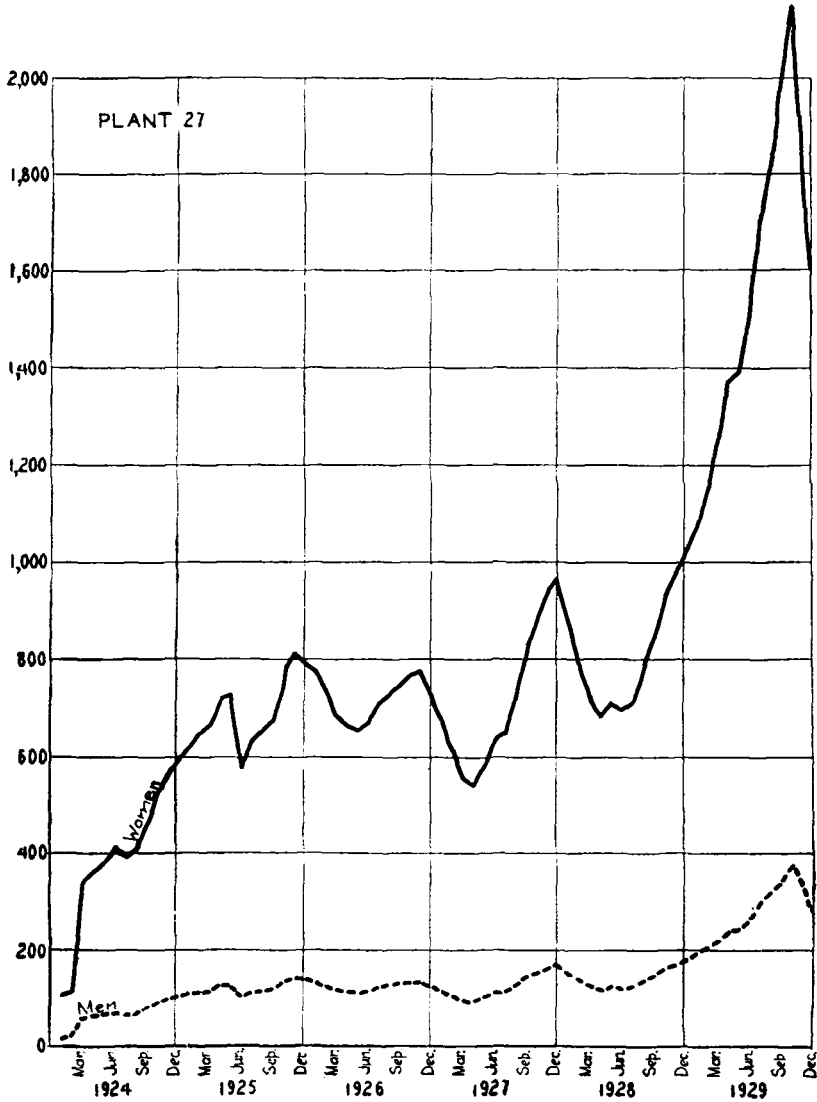
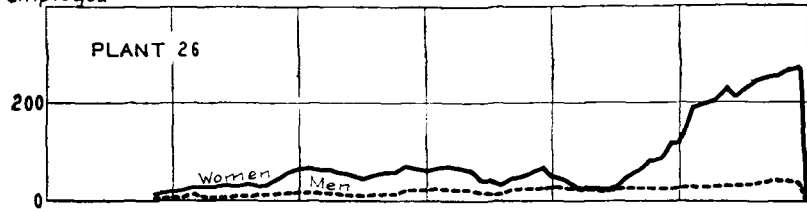
Month	1924			1925			1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January				31	9	22	88	19	69	89	22	67	67	22	45	223	29	194
February				40	13	27	86	19	67	93	21	72	47	21	26	228	29	199
March				37	9	28	82	18	64	87	21	66	47	21	26	233	30	203
April				37	9	28	75	15	60	82	21	61	46	21	25	265	31	234
May				43	9	34	63	12	51	61	18	43	45	20	25	242	31	211
June				45	11	34	59	11	48	61	18	43	49	21	28	264	33	231
July				45	11	34	68	15	53	55	17	38	76	25	51	282	36	246
August				45	13	32	76	16	60	73	23	50	89	25	64	295	41	254
September				47	13	34	78	16	62	77	23	54	108	24	84	298	43	255
October	14	2	12	60	14	46	93	22	71	85	23	62	115	24	91	311	41	270
November	18	4	14	77	16	61	89	22	67	94	24	70	146	24	122	317	40	277
December	20	4	16	86	19	67	85	22	63	73	24	49	147	25	122	0	0	0
Average				49	12	37	78	17	61	77	21	56	82	23	59	248	32	216
Maximum				86	19	67	93	22	71	94	24	72	147	25	122	317	43	277
Minimum				31	9	22	59	11	48	55	17	38	45	20	25	0	0	0
Per cent minimum is of maximum				36.0	47.4	32.8	63.4	50.0	67.6	58.5	70.8	52.8	30.6	80.0	20.5	(1)	(1)	(1)

PLANT 27, 1924 to 1929.

January	124	19	105	725	109	616	917	138	779	795	119	676	1,027	154	873	1,270	191	1,079
February	137	21	116	757	114	643	868	130	738	723	108	615	927	139	788	1,360	204	1,156
March	399	60	339	778	117	661	804	121	683	657	99	558	844	127	717	1,480	222	1,258
April	426	64	362	852	128	724	780	117	663	641	96	545	803	120	683	1,614	242	1,372
May	448	67	381	854	128	726	768	115	653	687	103	584	839	126	713	1,638	246	1,392
June	489	73	416	680	102	578	788	118	670	753	113	640	821	123	698	1,766	265	1,501
July	470	71	399	748	112	636	836	125	711	763	114	649	839	126	713	2,001	300	1,701
August	475	71	404	774	116	658	859	129	730	851	128	723	929	139	790	2,140	321	1,819
September	545	82	463	797	120	677	884	133	751	984	148	836	990	149	841	2,327	349	1,978
October	620	93	527	921	138	783	909	136	773	1,043	156	887	1,101	165	936	2,526	379	2,147
November	664	100	564	961	144	817	916	137	779	1,118	168	950	1,157	174	983	2,221	333	1,888
December	691	104	587	937	141	796	857	129	728	1,138	171	967	1,188	178	1,010	1,885	283	1,602
Average	457	69	388	815	122	693	849	127	722	846	127	719	955	143	812	1,852	278	1,574
Maximum	691	104	587	961	144	817	917	138	779	1,138	171	967	1,188	178	1,010	2,526	379	2,147
Minimum	124	19	105	680	102	578	768	115	653	641	96	545	803	120	683	1,270	191	1,079
Per cent minimum is of maximum	17.9	18.3	17.9	87.0	87.0	83.8	83.3	83.8	56.3	56.1	56.4	67.6	67.4	67.6	50.3	50.4	50.3	

<sup>1</sup> Minimum employment was zero.

Numbers employed



# 58 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO TUBES

PLANT 28, 1925 to 1929.

Month	1925			1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January	48	16	32	91	29	62	64	21	43	128	40	88	829	337	492
February	61	20	41	89	29	60	53	17	36	137	43	94	715	283	432
March	63	20	43	46	15	31	39	13	26	137	43	94	715	270	445
April	60	19	41	44	14	30	49	16	33	134	43	91	713	268	445
May	53	17	36	43	14	29	56	18	38	133	44	89	738	278	460
June	43	14	29	44	14	30	69	22	47	164	59	105	845	309	536
July	43	14	29	46	15	31	82	26	56	191	60	131	839	299	550
August	37	18	39	62	20	42	111	36	75	259	89	170	880	292	588
September	61	20	41	85	27	58	156	50	106	353	130	223	885	337	626
October	88	28	60	99	32	67	197	64	133	584	260	324	861	270	591
November	88	28	60	103	33	70	178	57	121	737	325	412	456	140	316
December	101	33	68	62	20	42	149	48	101	824	367	457	332	85	247
Average	64	21	43	68	22	46	100	32	68	315	125	190	734	257	477
Maximum	101	33	68	103	33	70	197	64	133	824	367	457	885	337	626
Minimum	43	14	29	43	14	29	39	13	26	128	40	88	332	85	247
Per cent minimum is of maximum	42.6	42.4	42.6	41.7	42.4	41.4	19.8	20.3	19.5	15.5	10.9	19.3	37.5	25.2	39.5

PLANT 29, 1925 to 1929.

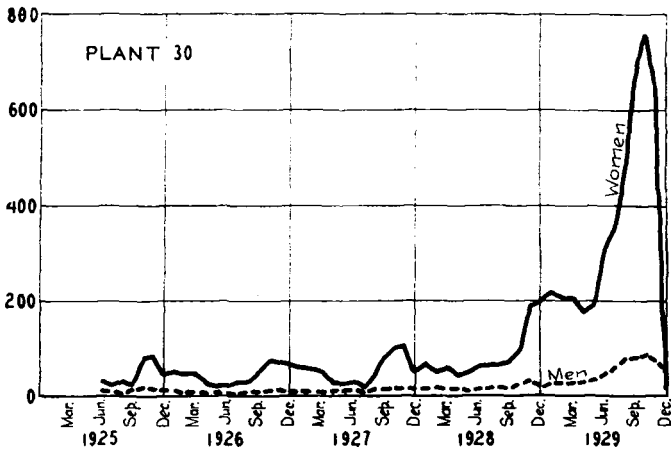
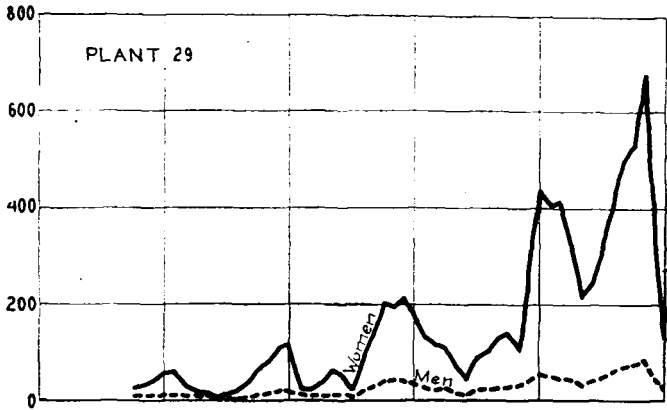
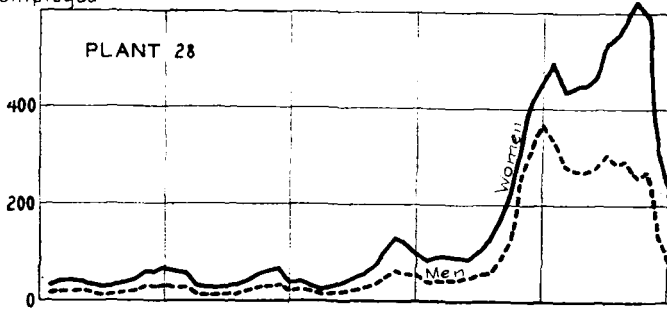
January				72	12	60	37	14	23	160	28	132	455	52	403
February				39	10	29	32	10	22	138	24	114	458	48	410
March				29	10	19	47	10	37	136	26	110	380	45	315
April				27	10	17	75	12	63	85	15	70	250	38	212
May				11	4	7	64	12	52	60	12	48	288	42	246
June				17	4	13	31	10	21	113	22	91	361	53	308
July				24	4	20	107	23	84	127	24	103	501	64	437
August				41	6	35	165	29	136	158	25	133	569	71	498
September	35	9	26	75	11	64	242	40	202	170	28	142	609	78	531
October	43	10	33	94	12	82	242	44	198	137	34	103	767	89	678
November	52	10	42	134	20	114	258	42	216	351	43	308	391	46	345
December	71	12	59	138	18	120	218	37	181	495	56	439	160	26	132
Average				58	10	48	127	24	103	178	28	149	431	55	376
Maximum				138	20	120	258	44	216	495	56	439	767	89	678
Minimum				11	4	7	31	10	21	60	12	48	160	26	132
Per cent minimum is of maximum				8.0	20.0	5.8	12.0	22.7	9.7	12.1	21.4	10.9	20.9	31.5	19.5

PLANT 30, 1925 to 1929.

January				63	12	51	70	10	60	83	15	68	242	25	217
February				58	8	50	67	8	59	66	16	50	230	24	206
March				58	8	50	64	9	55	78	15	63	232	27	205
April				33	7	26	40	9	31	61	15	46	209	30	179
May				30	8	22	39	10	29	65	14	51	227	35	192
June	41	10	31	28	6	22	41	10	31	77	15	62	356	48	308
July	31	9	22	33	4	29	23	8	15	80	16	64	412	62	350
August	39	9	30	43	10	33	56	12	44	80	16	64	534	80	454
September	39	15	24	62	10	52	94	12	82	91	15	78	741	81	660
October	101	19	82	89	12	77	119	16	103	124	24	100	845	86	759
November	102	17	85	89	13	76	119	15	104	223	33	190	728	74	654
December	59	14	45	83	9	74	68	15	53	219	19	200	62	47	15
Average	59	13	46	56	9	47	67	11	56	104	18	86	402	52	350
Maximum	102	19	85	89	13	77	119	16	104	223	33	200	845	86	759
Minimum	31	9	22	28	4	22	23	8	15	61	14	46	62	24	15
Per cent minimum is of maximum	130.4	147.4	125.9	31.5	30.8	28.6	19.3	50.0	14.4	27.4	42.4	23.0	7.3	27.9	2.0

<sup>1</sup> Based on less than a 12-month record.

Numbers  
employed



# 60 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

## FLUCTUATION IN EMPLOYMENT, RADIO TUBES

PLANT 31, 1926 to 1929.

Month	1926			1927			1928			1929		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
January.....				204	95	109	136	34	102	599	163	436
February.....				141	28	113	137	34	103	702	186	516
March.....				170	34	136	135	34	101	632	169	463
April.....	19	4	15	190	40	150	116	29	87	587	189	398
May.....	27	5	22	196	36	160	105	45	60	627	206	421
June.....	41	11	30	205	55	150	122	60	62	687	218	469
July.....	64	13	51	262	53	209	138	68	70	648	216	432
August.....	78	23	55	300	89	211	193	75	118	628	215	413
September.....	184	71	113	313	121	192	254	92	162	781	308	473
October.....	419	129	290	267	82	185	351	117	234	940	311	629
November.....	354	144	210	210	85	125	410	129	281	1,030	318	712
December.....	221	103	118	202	94	108	481	130	351	941	312	629
Average.....	156	56	100	222	68	154	215	71	144	733	234	499
Maximum.....	419	144	290	313	121	211	481	130	351	1,030	318	712
Minimum.....	19	4	15	141	28	108	105	29	60	587	163	398
Per cent minimum is of maximum.....	4.5	2.8	5.2	45.0	23.1	51.2	21.8	22.3	17.1	57.0	51.3	55.9

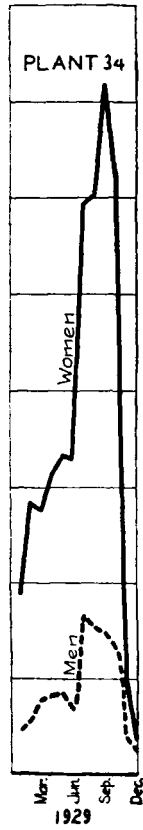
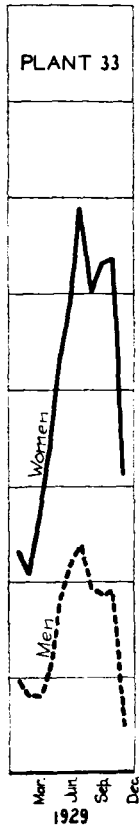
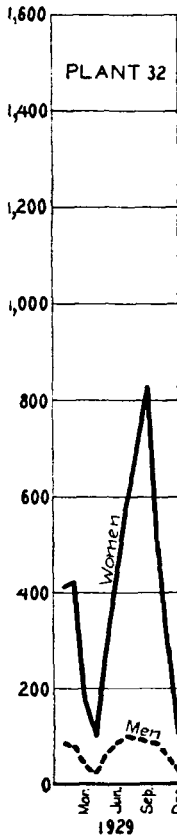
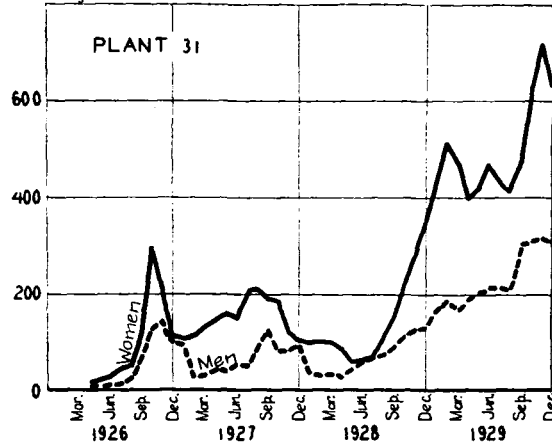
PLANTS WITH 1929 FIGURES ONLY.

Month	PLANT 32			PLANT 33			PLANT 34		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
January.....	499	87	412	662	196	466	470	95	375
February.....	505	83	422	586	167	419	684	115	569
March.....	220	44	176	697	166	531	714	158	556
April.....	128	26	102	905	227	678	791	164	627
May.....	317	63	254	1,245	368	877	840	171	669
June.....	492	87	405	1,418	440	978	801	140	661
July.....	680	102	578	1,656	479	1,177	1,521	331	1,190
August.....	799	98	701	1,390	389	1,001	1,517	307	1,210
September.....	922	92	830	1,440	378	1,062	1,736	298	1,438
October.....	580	85	495	1,458	381	1,077	1,515	263	1,252
November.....	331	55	276	723	100	623	274	86	188
December.....	131	26	105	0	0	0	128	52	76
Average.....	467	71	396	1,015	274	741	916	182	734
Maximum.....	922	102	830	1,656	479	1,177	1,736	331	1,438
Minimum.....	128	26	102	0	0	0	128	52	76
Per cent minimum is of maximum.....	13.9	25.5	12.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	15.7	5.3

<sup>1</sup> Based on less than a 12-month record.

<sup>1</sup> Minimum employment was zero.

Numbers  
employed





## 62 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

### FLUCTUATION IN EMPLOYMENT, RADIO PARTS AND ACCESSORIES<sup>1</sup>

PLANT 39, 1928 and 1929.

Month	1928			1929		
	Total	Men	Women	Total	Men	Women
January.....	78	66	12	182	176	6
February.....	58	46	12	93	88	5
March.....	66	54	12	98	95	3
April.....	87	75	12	79	77	2
May.....	79	67	12	161	122	39
June.....	131	105	26	262	173	89
July.....	165	134	31	478	258	220
August.....	274	240	34	477	266	211
September.....	395	348	47	489	283	206
October.....	427	367	60	513	278	235
November.....	446	389	57	489	283	206
December.....	399	358	41	126	104	22
Average.....	217	187	30	288	184	104
Maximum.....	446	389	60	513	283	235
Minimum.....	58	46	12	79	77	2
Per cent minimum is of maximum.....	13.0	11.8	20.0	15.4	27.2	0.9

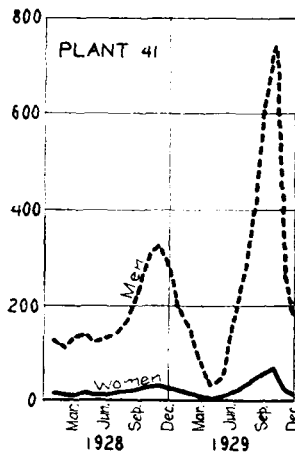
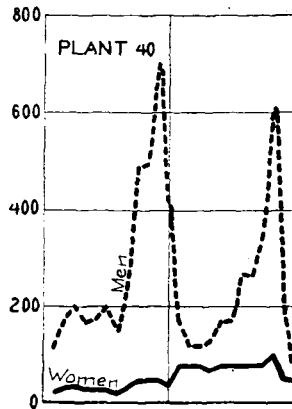
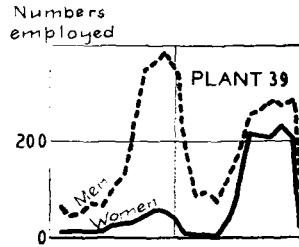
PLANT 40, 1928 and 1929.

January.....	133	113	20	250	170	80
February.....	200	170	30	200	120	80
March.....	235	200	35	200	120	80
April.....	201	171	30	200	130	70
May.....	200	175	25	250	170	80
June.....	228	200	28	250	170	80
July.....	170	150	20	346	266	80
August.....	268	238	30	342	262	80
September.....	538	488	50	436	356	80
October.....	544	494	50	708	608	100
November.....	750	700	50	250	200	50
December.....	460	420	40	136	88	48
Average.....	327	293	34	298	222	76
Maximum.....	750	700	50	708	608	100
Minimum.....	133	113	20	136	88	48
Per cent minimum is of maximum.....	17.7	16.1	40.0	19.2	14.5	48.0

PLANT 41, 1928 and 1929.

January.....	142	129	13	217	194	23
February.....	127	116	11	174	156	18
March.....	146	135	11	90	81	9
April.....	152	138	14	40	35	5
May.....	138	126	12	53	46	7
June.....	148	136	12	171	157	14
July.....	160	143	17	282	255	27
August.....	192	173	19	433	390	43
September.....	245	224	21	671	613	58
October.....	338	310	28	807	737	70
November.....	360	327	33	288	266	22
December.....	315	287	28	200	183	17
Average.....	205	187	18	285	259	26
Maximum.....	360	327	33	807	737	70
Minimum.....	127	116	11	40	35	5
Per cent minimum is of maximum.....	35.3	35.5	33.3	5.0	4.7	7.1

<sup>1</sup> For plants 35 to 38 see pp. 22 and 23.



## PUBLICATIONS OF THE WOMEN'S BUREAU

[Any of these bulletins still available will be sent free of charge upon request]

- \*No. 1. Proposed Employment of Women during the War in the Industries of Niagara Falls, N. Y. 16 pp. 1918.
- No. 2. Labor Laws for Women in Industry in Indiana. 29 pp. 1919.
- No. 3. Standards for the Employment of Women in Industry. 8 pp. Third ed., 1921.
- No. 4. Wages of Candy Makers in Philadelphia in 1919. 46 pp. 1919.
- \*No. 5. The Eight-Hour Day in Federal and State Legislation. 19 pp. 1919.
- No. 6. The Employment of Women in Hazardous Industries in the United States. 8 pp. 1921.
- No. 7. Night-Work Laws in the United States. (1919.) 4 pp. 1920.
- \*No. 8. Women in the Government Service. 37 pp. 1920.
- \*No. 9. Home Work in Bridgeport, Conn. 35 pp. 1920.
- \*No. 10. Hours and Conditions of Work for Women in Industry in Virginia. 32 pp. 1920.
- No. 11. Women Street-Car Conductors and Ticket Agents. 90 pp. 1921.
- \*No. 12. The New Position of Women in American Industry. 158 pp. 1920.
- No. 13. Industrial Opportunities and Training for Women and Girls. 48 pp. 1921.
- \*No. 14. A Physiological Basis for the Shorter Working Day for Women. 20 pp. 1921.
- No. 15. Some Effects of Legislation Limiting Hours of Work for Women. 26 pp. 1921.
- No. 16. (See Bulletin 63.)
- No. 17. Women's Wages in Kansas. 104 pp. 1921.
- No. 18. Health Problems of Women in Industry. 11 pp. 1921.
- No. 19. Iowa Women in Industry. 73 pp. 1922.
- \*No. 20. Negro Women in Industry. 65 pp. 1922.
- No. 21. Women in Rhode Island Industries. 73 pp. 1922.
- \*No. 22. Women in Georgia Industries. 89 pp. 1922.
- No. 23. The Family Status of Breadwinning Women. 43 pp. 1922.
- No. 24. Women in Maryland Industries. 96 pp. 1922.
- No. 25. Women in the Candy Industry in Chicago and St. Louis. 72 pp. 1923.
- No. 26. Women in Arkansas Industries. 86 pp. 1923.
- No. 27. The Occupational Progress of Women. 37 pp. 1922.
- No. 28. Women's Contributions in the Field of Invention. 51 pp. 1923.
- No. 29. Women in Kentucky Industries. 114 pp. 1923.
- No. 30. The Share of Wage-Earning Women in Family Support. 170 pp. 1923.
- No. 31. What Industry Means to Women Workers. 10 pp. 1923.
- No. 32. Women in South Carolina Industries. 128 pp. 1923.
- No. 33. Proceedings of the Women's Industrial Conference. 190 pp. 1923.
- No. 34. Women in Alabama Industries. 86 pp. 1924.
- No. 35. Women in Missouri Industries. 127 pp. 1924.
- No. 36. Radio Talks on Women in Industry. 34 pp. 1924.
- No. 37. Women in New Jersey Industries. 99 pp. 1924.
- No. 38. Married Women in Industry. 8 pp. 1924.
- No. 39. Domestic Workers and Their Employment Relations. 87 pp. 1924.
- No. 40. (See Bulletin 63.)
- No. 41. Family Status of Breadwinning Women in Four Selected Cities. 145 pp. 1925.
- No. 42. List of References on Minimum Wage for Women in the United States and Canada. 42 pp. 1925.
- No. 43. Standard and Scheduled Hours of Work for Women in Industry. 68 pp. 1925.
- No. 44. Women in Ohio Industries. 137 pp. 1925.
- No. 45. Home Environment and Employment Opportunities of Women in Coal-Mine Workers' Families. ~~41 pp. 1925.~~

## 66 FLUCTUATION OF EMPLOYMENT IN THE RADIO INDUSTRY

- No. 46. Facts About Working Women—A Graphic Presentation Based on Census Statistics. 64 pp. 1925.
- No. 47. Women in the Fruit-Growing and Canning Industries in the State of Washington. 223 pp. 1926.
- \*No. 48. Women in Oklahoma Industries. 118 pp. 1926.
- No. 49. Women Workers and Family Support. 10 pp. 1925.
- No. 50. Effects of Applied Research Upon the Employment Opportunities of American Women. 54 pp. 1926.
- No. 51. Women in Illinois Industries. 108 pp. 1926.
- No. 52. Lost Time and Labor Turnover in Cotton Mills. 203 pp. 1926.
- No. 53. The Status of Women in the Government Service in 1925. 103 pp. 1926.
- No. 54. Changing Jobs. 12 pp. 1926.
- No. 55. Women in Mississippi Industries. 89 pp. 1926.
- No. 56. Women in Tennessee Industries. 120 pp. 1927.
- No. 57. Women Workers and Industrial Poisons. 5 pp. 1926.
- No. 58. Women in Delaware Industries. 156 pp. 1927.
- No. 59. Short Talks About Working Women. 24 pp. 1927.
- No. 60. Industrial Accidents to Women in New Jersey, Ohio, and Wisconsin. 316 pp. 1927.
- No. 61. The Development of Minimum-Wage Laws in the United States, 1912 to 1927. 635 pp. 1928.
- No. 62. Women's Employment in Vegetable Canneries in Delaware. 47 pp. 1927.
- No. 63. State Laws Affecting Working Women. 51 pp. 1927. (Revision of Bulletins 16 and 40.)
- No. 64. The Employment of Women at Night. 86 pp. 1929.
- \*No. 65. The Effects of Labor Legislation on the Employment Opportunities of Women. 498 pp. 1928.
- No. 66. History of Labor Legislation for Women in Three States; Chronological Development of Labor Legislation for Women in the United States. 288 pp. 1929.
- No. 67. Women Workers in Flint, Mich. 80 pp. 1929.
- No. 68. Summary: The Effects of Labor Legislation on the Employment Opportunities of Women. (Reprint of Chapter 2 of bulletin 65.) 22 pp. 1928.
- No. 69. Causes of Absence for Men and for Women in Four Cotton Mills. 24 pp. 1929.
- No. 70. Negro Women in Industry in 15 States. 74 pp. 1929.
- No. 71. Selected References on the Health of Women in Industry. 8 pp. 1929.
- No. 72. Conditions of Work in Spin Rooms. 41 pp. 1929.
- No. 73. Variations in Employment Trends of Women and Men. 143 pp. 1930.
- No. 74. The Immigrant Woman and Her Job. 179 pp. 1930.
- No. 75. What the Wage-Earning Woman Contributes to Family Support. 20 pp. 1929.
- No. 76. Women in 5-and-10-Cent Stores and Limited-Price Chain Department Stores. 58 pp. 1930.
- No. 77. A Study of Two Groups of Denver Married Women Applying for Jobs. 10 pp. 1929.
- No. 78. A Survey of Laundries and Their Women Workers in 23 Cities. 166 pp. 1930.
- No. 79. Industrial Home Work. 18 pp. 1930.
- No. 80. Women in Florida Industries. 115 pp. 1930.
- No. 81. Industrial Accidents to Men and Women. 48 pp. 1930.
- No. 82. The Employment of Women in the Pineapple Canneries of Hawaii. 30 pp. 1930.
- No. 83. Fluctuation of Employment in the Radio Industry. 66 pp. 1931.
- No. 84. Fact Finding with the Women's Bureau. 37 pp. 1931.
- No. 85. Wages for Women in 13 States. (In press.)
- Annual Reports of the Director, 1919\*, 1920\*, 1921\*, 1922, 1923, 1924\*, 1925, 1926, 1927\*, 1928\*, 1929, 1930.

\* Supply exhausted.

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