

# APPENDIX.

Recent information and returns which have come to hand since the various sections of this book were sent to press, are given hereunder.

## SECTION IV.

### POPULATION.

#### § 4. Elements of Growth of Population.

3. **Net Immigration, p. 114.**—The following table gives particulars of net immigration for the year 1916:—

NET IMMIGRATION,<sup>1</sup> 1916.

Particulars.	States.						Territories.		C'wth.
	N.S.W.	Victoria.	Q'land.	S. Aust.	W.A.	Tas.	North-ern.	Federal	
Arrivals ...	389,643	289,997	130,528	83,561	19,322	41,361	1,389	...	63,405
Departures ...	433,413	328,035	151,134	95,917	34,010	46,047	1,137	...	197,297
Excess of ar- rivals over departures	<sup>2</sup> -43,770	-38,038	-20,606	-12,356	-14,688	-4686	252	<sup>3</sup> 339	-133,892

NOTE.—The sign — denotes excess of departures over arrivals.

1. Figures for States and Territories represent Interstate, Interterritorial and Oversea migration; those for Commonwealth represent Oversea migration only. 2. Including Federal Territory. 3. Included with New South Wales migration.

5. **Total Increase, p. 113.**—The following table gives particulars of the total increase in population for each State and Territory and for the Commonwealth during the year 1916:—

TOTAL INCREASE OF POPULATION, 1916.

Particulars.	States.						Territories.		C'wth.
	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	North-ern.	Federal	
Excess of births over deaths ...	32,234	17,746	11,398	6,780	5,478	3,586	-48	55	77,229
Excess of arrivals over departures	-44,109	-38,038	20,606	-12,356	-14,688	-4,686	252	339	-133,892
Total increase	-11,875	-20,292	-9,208	-5,576	-9,210	-1,100	204	1394	-56,663

NOTE. — signifies excess of departures over arrivals.

<sup>1</sup> Including Jervis Bay population 282, transferred from New South Wales.

### § 8. Enumerations and Estimates.

5. **Estimates of Population, pp. 128 to 131.**—The following table shows the estimated population of each State and the Commonwealth on the 31st December, 1916; and on 30th June, 1917:—

#### ESTIMATED POPULATION ON 31st DECEMBER, 1916.

Particulars:	States.						Territories.		C'with.
	N.S.W.	Vic.	Q'land.	S. Aust.	W.A.	Tas.	North-ern.	Federal	
Males ...	923,603	666,036	344,557	201,998	159,998	99,839	3,839	1,194	2,401,064
Females ...	934,941	732,848	324,910	230,711	148,808	100,086	928	1,029	2,474,261
Total ...	1,858,544	1,398,884	669,467	432,709	308,806	199,925	4,767	2,223	4,875,325

#### ON 30TH JUNE, 1917.

Males ...	922,279	666,440	349,686	198,981	158,336	98,561	4,066	1,559	2,399,908
Females ...	946,121	736,210	331,616	230,909	150,194	98,776	977	1,183	2,495,986
Total ...	1,868,400	1,402,650	681,302	429,890	308,530	197,337	5,043	2,742	4,895,894

### § 10. Principal Results of Census of 1911.

#### Census Results, p. 133.

10. **Average Number of Children of Married Males.**—For the solution of certain sociological questions, it is necessary to know how many children, under a given age, are referable to married males of given ages. These are set out in the table given hereunder, which is to be interpreted in the following manner:—*On the average*, married males of 25 years of age last birthday will have 0.812 children under 7 years of age (*i.e.*, 1000 married males of age 25 will have 812 children), and they would not have more than 0.814 children under 8 or any greater age. Or again; on the average, married males of 35 would have 2.217 children under 12, or 2.320 under 14, and not more than 2.348 under 18 or any greater age.

It will be noticed that the age, where the figures become constant for any higher age limit, is 17 plus the greatest age of any of the children, except when the greatest age of the latter is 4, in which case it is 16 plus the greatest age.

**AVERAGE NUMBER OF CHILDREN UNDER THE SEVERAL AGES, 1 to 21, INCLUSIVE,  
(Based upon Results obtained in connexion**

Ages of Married Males. Years.	AVERAGE NUMBER (PER MARRIED MALE)										
	Under 1	Under 2	Under 3	Under 4	Under 5	Under 6	Under 7	Under 8	Under 9	Under 10	Under 11
	17	.039*	.039	.039	.039	.039	.039	.039	.039	.039	.039
18	.060	.070*	.070	.070	.070	.070	.070	.070	.070	.070	.070
19	.128	.152	.156*	.156	.156	.156	.156	.156	.156	.156	.156
20	.188	.235	.243	.245*	.245	.245	.245	.245	.245	.245	.245
21	.205	.296	.319	.324*	.324	.324	.324	.324	.324	.324	.324
22	.256	.363	.413	.425	.428*	.428	.428	.428	.428	.428	.428
23	.262	.417	.485	.518	.525	.526*	.526	.526	.526	.526	.526
24	.286	.473	.588	.639	.662	.668	.669*	.669	.669	.669	.669
25	.292	.510	.658	.749	.789	.808	.812	.814*	.814	.814	.814
26	.293	.525	.704	.826	.901	.935	.950	.954	.955*	.955	.955
27	.293	.531	.730	.883	.988	1.053	1.082	1.095	1.098	1.099*	1.099
28	.293†	.536	.748	.925	1.061	1.154	1.212	1.237	1.249	1.252	1.253*
29	.293	.550	.776	.972	1.135	1.261	1.347	1.401	1.424	1.435	1.438
30	.292	.556†	.791†	1.002	1.184	1.335	1.452	1.532	1.582	1.604	1.614
31	.280	.542	.785	1.005†	1.201†	1.372	1.513	1.623	1.698	1.744	1.765
32	.254	.506	.752	.980	1.187	1.372†	1.532	1.666	1.770	1.841	1.885
33	.236	.467	.706	.940	1.158	1.355	1.533†	1.685	1.813	1.911	1.979
34	.225	.442	.664	.894	1.120	1.331	1.521	1.692†	1.840	1.963	2.059
35	.217	.426	.637	.854	1.078	1.299	1.505	1.691	1.858†	2.003	2.123
36	.209	.411	.615	.821	1.033	1.253	1.469	1.671	1.853	2.017†	2.159
37	.201	.397	.596	.796	.998	1.206	1.423	1.635	1.834	2.014	2.175†
38	.195	.384	.577	.772	.969	1.168	1.374	1.587	1.797	1.993	2.171
39	.189	.373	.559	.749	.941	1.136	1.334	1.537	1.748	1.956	2.150
40	.182	.361	.542	.726	.914	1.105	1.298	1.494	1.695	1.904	2.110
41	.171	.343	.519	.698	.880	1.066	1.254	1.446	1.640	1.839	2.047
42	.150	.311	.481	.655	.832	1.012	1.196	1.383	1.573	1.765	1.963
43	.128	.269	.428	.596	.768	.943	1.122	1.304	1.490	1.678	1.868
44	.115	.236	.375	.532	.697	.868	1.041	1.218	1.399	1.582	1.769
45	.102	.211	.330	.467	.622	.787	.955	1.127	1.302	1.481	1.664
46	.091	.188	.295	.413	.549	.703	.866	1.033	1.204	1.378	1.556
47	.080	.166	.262	.368	.485	.621	.774	.937	1.103	1.273	1.447
48	.070	.146	.231	.326	.432	.549	.684	.837	.999	1.165	1.335
49	.080	.127	.202	.288	.383	.489	.606	.741	.894	1.056	1.223
50	.051	.109	.175	.250	.336	.431	.538	.654	.789	.942	1.104
51	.043	.092	.149	.215	.290	.375	.470	.575	.692	.827	.980
52	.035	.076	.125	.181	.247	.322	.406	.501	.606	.722	.857
53	.029	.062	.103	.151	.208	.273	.348	.432	.527	.632	.748
54	.023	.050	.084	.124	.173	.229	.295	.370	.454	.549	.655
55	.018	.039	.067	.100	.141	.189	.246	.312	.387	.472	.567
56	.015	.032	.053	.080	.114	.155	.203	.260	.325	.401	.486
57	.013	.027	.044	.065	.093	.126	.167	.216	.273	.339	.414
58	.011	.023	.037	.054	.076	.104	.137	.178	.227	.285	.351
59	.009	.020	.032	.046	.063	.085	.113	.147	.188	.237	.295
60	.008	.017	.028	.040	.054	.071	.093	.121	.156	.197	.247
61	.007	.014	.024	.034	.047	.061	.079	.101	.129	.164	.206
62	.006	.013	.020	.029	.040	.053	.067	.085	.108	.136	.171
63	.005	.011	.018	.025	.034	.045	.058	.073	.091	.113	.142
64	.004	.009	.015	.022	.029	.039	.050	.063	.078	.096	.119
65	.004	.008	.013	.019	.025	.033	.043	.054	.067	.082	.100
66	.003	.007	.011	.016	.022	.029	.037	.046	.057	.070	.085
67	.003	.006	.010	.014	.019	.025	.032	.040	.049	.061	.074
68	.002	.005	.008	.012	.016	.021	.028	.035	.043	.052	.064
69	.002	.005	.007	.011	.014	.019	.024	.030	.037	.045	.055
70	.002	.004	.006	.009	.012	.016	.021	.026	.033	.040	.048
71	.002	.003	.006	.008	.011	.014	.018	.023	.028	.035	.042
72	.001	.003	.005	.007	.009	.012	.016	.020	.025	.030	.037
73	.001	.002	.004	.006	.008	.011	.014	.017	.021	.026	.032
74	.001	.002	.003	.005	.007	.009	.012	.015	.018	.023	.028
75	.001	.002	.003	.004	.006	.008	.010	.013	.016	.020	.024
76	.001	.002	.002	.004	.005	.007	.009	.011	.014	.017	.021
77	.001	.001	.002	.003	.004	.006	.007	.010	.012	.015	.018
78	.001	.001	.002	.003	.004	.005	.006	.008	.010	.013	.016
79	.001	.001	.002	.003	.003	.004	.006	.007	.009	.011	.013
80	.001	.001	.002	.003	.003	.004	.005	.006	.008	.010	.012
81	.001	.001	.002	.002	.003	.004	.005	.006	.007	.009	.011
82	.001	.001	.002	.002	.003	.004	.005	.006	.007	.008	.010
83	.001	.001	.002	.002	.003	.004	.004	.005	.006	.007	.009
84	.001	.001	.002	.002	.003	.004	.004	.005	.006	.007	.008
85	.001	.001	.002	.002	.003	.004	.004	.005	.006	.007	.008
86	.001	.001	.002	.002	.003	.003	.004	.004	.005	.007	.008
87	.001	.001	.002	.002	.003	.003	.004	.004	.005	.006	.007
88	.001	.001	.002	.002	.003	.003	.004	.004	.005	.006	.007
89	..	..	..	..	..	.002	.003	.004	.005	.006	.007
90	..	..	..	..	..	..	..	..	..	..	..
91	..	..	..	..	..	..	..	..	..	..	..
92	..	..	..	..	..	..	..	..	..	..	..

\* The values following horizontally are merely repetitions of the values marked with asterisks.

PER MARRIED MALE OF EACH AGE FROM 17 to 92, LAST BIRTHDAY INCLUSIVE.  
with the Australian Census of 1911.)

OF CHILDREN WHOSE AGES ARE IN YEARS											Ages of Married Males. Years.	
Under 11	Under 12	Under 13	Under 14	Under 15	Under 16	Under 17	Under 18	Under 19	Under 20	Under 21		
.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	..	17
.070	.070	.070	.070	.070	.070	.070	.070	.070	.070	.070	..	18
.156	.156	.156	.156	.156	.156	.156	.156	.156	.156	.156	..	19
.245	.245	.245	.245	.245	.245	.245	.245	.245	.245	.245	..	20
.324	.324	.324	.324	.324	.324	.324	.324	.324	.324	.324	..	21
.428	.428	.428	.428	.428	.428	.428	.428	.428	.428	.428	..	22
.526	.526	.526	.526	.526	.526	.526	.526	.526	.526	.526	..	23
.669	.669	.669	.669	.669	.669	.669	.669	.669	.669	.669	..	24
.814	.814	.814	.814	.814	.814	.814	.814	.814	.814	.814	..	25
.955	.955	.955	.955	.955	.955	.955	.955	.955	.955	.955	..	26
1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	..	27
1.253*	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	..	28
1.438	1.439*	1.439	1.439	1.439	1.439	1.439	1.439	1.439	1.439	1.439	..	29
1.614	1.617	1.618*	1.618	1.618	1.618	1.618	1.618	1.618	1.618	1.618	..	30
1.765	1.774	1.776	1.777*	1.777	1.777	1.777	1.777	1.777	1.777	1.777	..	31
1.885	1.904	1.913	1.915	1.916*	1.916	1.916	1.916	1.916	1.916	1.916	..	32
1.979	2.021	2.040	2.048	2.050	2.051*	2.051	2.051	2.051	2.051	2.051	..	33
2.059	2.124	2.165	2.183	2.191	2.193	2.194*	2.194	2.194	2.194	2.194	..	34
2.123	2.217	2.281	2.320	2.338	2.346	2.347	2.348*	2.348	2.348	2.348	..	35
2.159	2.277	2.368	2.431	2.470	2.487	2.495	2.497	2.498*	2.498	2.498	..	36
2.175†	2.315	2.431	2.521	2.583	2.621	2.638	2.646	2.647	2.648*	2.648	..	37
2.171	2.330†	2.468	2.583	2.672	2.732	2.770	2.787	2.795	2.796	2.797*	..	38
2.150	2.326	2.483†	2.620	2.733	2.821	2.881	2.919	2.935	2.943	2.945	..	39
2.110	2.303	2.477	2.633†	2.768	2.881	2.968	3.028	3.065	3.081	3.088	..	40
2.047	2.251	2.441	2.614	2.769†	2.903†	3.014	3.100	3.160	3.196	3.212	..	41
1.963	2.169	2.372	2.561	2.732	2.885	3.018†	3.128†	3.214	3.272	3.308	..	42
1.868	2.064	2.288	2.469	2.656	2.826	2.977	3.109	3.218†	3.303†	3.361	..	43
1.769	1.958	2.152	2.354	2.563	2.738	2.906	3.056	3.186	3.295	3.378†	..	44
1.664	1.848	2.036	2.228	2.429	2.626	2.809	2.975	3.124	3.253	3.360	..	45
1.556	1.737	1.921	2.107	2.293	2.497	2.693	2.875	3.040	3.188	3.315	..	46
1.447	1.624	1.804	1.987	2.172	2.363	2.561	2.755	2.937	3.101	3.248	..	47
1.335	1.508	1.685	1.865	2.047	2.232	2.422	2.619	2.813	2.994	3.157	..	48
1.223	1.398	1.566	1.743	1.923	2.106	2.291	2.481	2.678	2.872	3.053	..	49
1.104	1.271	1.441	1.615	1.792	1.972	2.155	2.339	2.529	2.727	2.920	..	50
.980	1.142	1.308	1.478	1.651	1.828	2.008	2.190	2.374	2.563	2.760	..	51
.857	1.009	1.171	1.337	1.506	1.679	1.855	2.033	2.215	2.398	2.586	..	52
.748	.883	1.035	1.197	1.362	1.531	1.704	1.879	2.058	2.239	2.422	..	53
.655	.771	.907	1.059	1.221	1.388	1.557	1.730	1.906	2.085	2.266	..	54
.567	.672	.789	.925	1.078	1.240	1.407	1.576	1.749	1.926	2.105	..	55
.486	.581	.686	.804	.939	1.092	1.255	1.421	1.591	1.763	1.938	..	56
.414	.500	.595	.702	.819	.955	1.109	1.272	1.439	1.609	1.783	..	57
.351	.427	.513	.610	.717	.835	.972	1.127	1.291	1.459	1.630	..	58
.295	.362	.438	.525	.622	.729	.848	.986	1.141	1.306	1.474	..	59
.247	.305	.373	.450	.538	.636	.744	.864	1.003	1.160	1.326	..	60
.206	.257	.316	.384	.463	.551	.650	.760	.882	1.022	1.181	..	61
.171	.214	.285	.325	.394	.473	.563	.663	.774	.897	1.039	..	62
.142	.178	.221	.273	.333	.403	.483	.573	.674	.786	.910	..	63
.119	.145	.184	.227	.280	.341	.411	.492	.583	.685	.798	..	64
.100	.123	.152	.189	.233	.285	.346	.418	.499	.590	.693	..	65
.085	.104	.127	.157	.183	.228	.291	.353	.424	.506	.598	..	66
.074	.089	.108	.132	.162	.199	.244	.297	.360	.432	.515	..	67
.064	.077	.093	.112	.136	.167	.204	.250	.305	.368	.442	..	68
.055	.067	.081	.097	.116	.141	.172	.210	.257	.312	.377	..	69
.048	.058	.071	.085	.101	.121	.146	.178	.217	.265	.321	..	70
.042	.051	.061	.074	.088	.105	.125	.151	.183	.224	.272	..	71
.037	.044	.053	.064	.077	.091	.108	.129	.155	.189	.230	..	72
.032	.038	.046	.055	.066	.079	.094	.111	.132	.159	.193	..	73
.028	.033	.040	.048	.057	.068	.082	.097	.115	.136	.164	..	74
.024	.029	.035	.042	.051	.060	.072	.085	.101	.120	.142	..	75
.021	.026	.031	.037	.045	.053	.063	.075	.089	.105	.124	..	76
.018	.022	.027	.032	.039	.046	.055	.065	.078	.092	.109	..	77
.016	.019	.023	.028	.034	.040	.048	.057	.067	.080	.094	..	78
.013	.016	.020	.024	.029	.035	.041	.049	.058	.069	.081	..	79
.012	.015	.018	.022	.026	.031	.037	.044	.053	.062	.073	..	80
.011	.013	.016	.019	.023	.028	.033	.039	.046	.055	.065	..	81
.010	.012	.014	.017	.021	.025	.029	.034	.041	.048	.057	..	82
.009	.010	.013	.015	.018	.022	.026	.031	.036	.043	.051	..	83
.008	.010	.012	.014	.017	.020	.024	.028	.033	.039	.046	..	84
.008	.009	.011	.013	.015	.018	.022	.026	.030	.035	.041	..	85
.008	.009	.010	.012	.014	.017	.020	.023	.028	.032	.038	..	86
.007	.009	.010	.011	.013	.015	.018	.021	.024	.028	.033	..	87
.007	.009	.010	.011	.013	.014	.016	.019	.022	.025	.029	..	88
.007	.008	.009	.010	.012	.013	.015	.017	.020	.023	.026	..	89
..	..	.009	.010	.012	.013	.014	.016	.018	.021	.023	..	90
..	..	..	..	..	..	.013	.015	.017	.019	.021	..	91
..	..	..	..	..	..	..	..	.017	..	.019	..	92

† These are the maximum values on the vertical lines.

## SECTION V. VITAL STATISTICS.

### § 1. Births.

1. **Male and Female Births, p. 158.**—The total number of male and female births registered, and the birth rates per 1000 of the population in each State and Territory and in the Commonwealth, during the year 1916, were as follows:—

#### BIRTHS AND BIRTH RATES, 1916.

Particulars.	States.						Territories.		C'with.
	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	North-ern.	Federal	
Males ...	26,615	17,623	9,673	6,200	4,439	2,873	44	38	67,505
Females ...	25,465	16,612	9,239	5,657	4,124	2,769	30	25	63,921
Total ...	52,080	34,235	18,912	11,857	8,563	5,642	74	63	131,426
Birth rates ...	27.89	24.29	27.91	27.39	27.21	28.47	15.26	24.11	26.78

### § 2. Marriages.

1. **Marriages, p. 175.**—The following statement shows the number of marriages registered in each State and Territory and in the Commonwealth, and the marriage rates per 1000 of the mean population, during the year 1916:—

#### MARRIAGES AND MARRIAGE RATES, 1916.

Particulars.	States.						Territories.		C'with.
	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	North-ern.	Federal	
No. of marriages	16,316	11,342	5,208	3,602	2,365	1,433	19	4	40,289
Marriage rates <sup>1</sup>	8.74	8.05	7.69	8.32	7.51	7.23	3.92	1.53	8.21

1. Number of marriages, not persons married, per 1000 of mean population.

### § 3. Deaths.

1. **Male and Female Deaths, p. 182.**—The number of deaths registered in each State and Territory and in the Commonwealth during 1916, and the death rates per 1000 of the mean population, are shown in the following table:—

#### MALE AND FEMALE DEATHS AND DEATH RATES, 1916.

Particulars.	States.						Territories.		C'with.
	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	North-ern.	Federal	
Male ...	11,500	8,901	4,653	2,721	1,981	1,148	108	6	31,018
Female ...	8,346	7,588	2,861	2,356	1,104	908	14	2	23,179
Total ...	19,846	16,489	7,514	5,077	3,085	2,056	122	8	54,197
Death rates...	10.63	11.70	11.09	11.73	9.80	10.38	25.16	3.06	11.04

7. **Infantile Death Rate, p. 184.**—The total number of births, of deaths of children under one year of age, and the average rate of infantile mortality for the ten years 1907 to 1916 are shown in the following table for each of the fifty-nine districts for which the vital statistics of the Commonwealth have been tabulated during that period. To afford a better idea of the geographical position of the districts, the name of a town situated in a fairly central part of each district has been added. The figures for the Federal Territory and for Lord Howe Island are included for the sake of completeness, but are too small to be used in comparison with others.

**INFANTILE MORTALITY FOR THE TEN YEARS 1907 to 1916.**

States and Territories.	Districts.	Towns.	Total Births, 1907-16.	Total Deaths of Children under one year, 1907-16.	Average Infantile Mortality per 1000 Births, 1907-16.
New South Wales	Metropolitan	Sydney	185,021	14,296	77.27
	North Coast	Grafton	39,704	2,187	55.08
	Lower Hunter	Newcastle	49,867	3,753	75.26
	Cumberland	Parramatta	20,806	1,465	70.41
	South Coast	Nowra	20,845	1,353	64.91
	Northern Tableland	Armidale	29,515	1,949.	66.03
	Central Tableland	Bathurst	35,164	2,678	76.16
	Southern Tableland	Goulburn	26,690	1,767	66.20
	North-Western Slope	Moree	12,043	895	74.32
	Central-Western Slope	Dubbo	17,459	1,326	75.95
	South-Western Slope	Temora	18,500	1,179	63.73
	Riverina	Hay	10,135	619	61.08
	Plains East of Darling	Cobar	5,819	351	94.69
Trans-Darling Plains	Broken Hill	12,545	1,373	109.45	
Lord Howe Island	—	—	18	3	166.67
Victoria	Metropolitan	Melbourne	154,718	13,170	85.12
	Central	Geelong	31,484	2,116	67.21
	North-Central	Kyneton	17,723	1,098	61.95
	Western	Hamilton	39,256	2,830	72.09
	Wimmera	Horsham	15,363	884	57.54
	Mallee	Ultima	8,337	496	59.49
	Northern	Rochester	37,740	2,571	68.12
	North-Eastern	Beechworth	13,565	805	59.34
	Gippsland	Sale	17,515	947	54.07
	Queensland	Metropolitan	Brisbane	45,326	3,694
Moreton		Ipswich	22,976	1,270	55.28
Wide Bay		Maryborough	22,704	1,236	54.44
Port Curtis		Rockhampton	14,921	1,149	77.01
Edgumbe		Townsville	17,900	1,093	61.06
Rockingham		Cairns	8,813	545	61.84
York Peninsula		Cooktown	1,364	91	65.75
Carpentaria		Croydon	3,053	255	83.52
Central-Western		Winton	821	72	87.70
South-Western		Charleville	2,365	241	101.90
Central		Blackall	5,230	350	66.92
Maranoa		Roma	3,942	267	67.73
Downs		Toowoomba	26,066	1,644	63.07
South Australia	Metropolitan	Adelaide	53,826	4,106	76.28
	Central	Gawler	24,406	1,291	52.90
	Lower North	Redruth	17,692	1,369	77.38
	Upper North	Port Augusta	5,835	315	53.98
	North-Eastern	Mount Gambier	6,191	315	50.88
	Western	Port Lincoln	3,940	180	45.69
Western Australia	Metropolitan	Perth	35,626	2,961	83.11
	Northern Agricultural	Geraldton	11,529	778	67.48
	South-Western	Katanning	18,152	944	52.01
	Eastern Goldfields	Kalgoorlie	14,266	1,249	87.55
	Northern Goldfields	Pilbara	2,965	273	92.07
	North-Western	Roebourne	420	26	61.90
	Northern	Broome	378	34	89.95
Tasmania	Hobart	Hobart	12,278	1,115	90.81
	Launceston	Launceston	8,074	754	93.40
	North-Eastern	Scottsdale	6,949	473	68.07
	North-Western	Stanley	14,023	884	63.04
	Midland	Zeehan	7,693	562	73.05
	South-Eastern	Sorell	5,805	356	61.33
Northern Territory	—	Franklin	1,850	124	67.03
	—	Darwin	437	41	93.82
Federal Territory (1911-16)	—	Canberra	278	8	28.78

## SECTION VII. PASTORAL PRODUCTION.

### § 1. Initiation and Growth of Pastoral Industry.

3. **Increase in Numbers, p. 290.**—The following table shews the estimated number of horses, cattle, sheep, and pigs in the Commonwealth at the latest dates available. The totals shew a satisfactory upward tendency as compared with the previous year's figures:—

#### PRELIMINARY FIGURES—LIVE STOCK.

States and Territories.	Date.	Horses.	Cattle.	Sheep.	Pigs.
New South Wales ...	31/12/16	*718,232	†2,361,152	33,713,901†	*280,869
Victoria ...	31/3/17	514,403	1,175,098	12,576,587	254,436
Queensland ...	31/12/16	697,517	4,765,657	15,524,293	129,733
South Australia...	31/3/17	275,000	212,000	3,800,000	70,000
Western Australia...	31/12/16	169,478	865,497	5,501,046	90,650
Tasmania ...	1/3/17	42,620	179,360	1,702,579	53,033
Northern Territory	31/12/16	21,674	420,362	47,520	500
Federal Territory	30/6/16	1,310	‡	‡	289
Commonwealth	...	2,440,234	9,979,126	72,865,926	879,510

\* As at 30th June, 1916. † Including Federal Territory. ‡ Included with New South Wales.

### § 5. Wool.

10. **The Wool Market, p. 309.**—Purchase of balance of 1916-17 wool clip by Imperial Government.

The purchase by the Imperial Government of the balance of the Australian wool clip, season 1916-17, was brought about as a result of war conditions.

Owing to the demand for wool for the manufacture of clothing for British military requirements and those of the Allies, it was decided to acquire the Australian clip at the flat rate of 15½d. per pound greasy—an increase of 55 per cent. on the prices ruling in the pre-war season.

The control of the scheme was placed in the hands of a body called the Central Wool Committee, assisted by a committee in each State.

These committees consist of representatives of the wool growers, wool sellers, wool buyers, manufacturers and scourers or fellmongers.

In addition the Central Wool Committee has a Government nominee, who acts as chairman.

The broad policy laid down was that existing trade conditions were not to be disturbed; this meant that the carrying out of the details of the scheme was left to the trade itself.

The wool was prepared, catalogued and shewn in the usual way, but instead of being sold by public auction, it was valued by duly appointed Government Wool Appraisers, according to a table of limits prepared by a body of experts acting as an Advisory Board to the Central Wool Committee.

On appraisal the wool became the property of the Imperial Government, and is being shipped as freight space is available, it being prescribed that allotment of freight should be on the basis of the quantity of wool appraised in each State.

The Central Wool Committee, at the request of the Imperial Government, undertook to scour and re-class as much wool as would keep the local industries going to their full capacity. The work is still proceeding.

*Financial.*—Payment of 90 per cent. of the appraised price was made to wool brokers for distribution to the growers within fourteen (14) days from the final date of each series of appraisements, with funds received from the Imperial Government, the

balance of 10 per cent. being withheld for possible adjustments. This retention money was placed out at interest, which, being added to the amount for final distribution, means that the growers will not suffer any loss.

The average appraised price per pound having worked out less than the purchase price of 15½d. per pound, the retention money, amounting to £2,313,461, was paid over on the 14th August, 1917, and a further sum is to be made available. A dividend—the first—of 10 per cent. will probably be paid about the end of October. This represents slightly more than the payment in full of the flat rate of 15½d. per pound. A small final dividend will follow as soon as circumstances will permit.

*Quantity and Value of Wool Appraised.*—The quantity of wool appraised under the Imperial Government's purchase of a portion of the clip for the season 1916-17 amounted to 323,748,376 lbs. greasy, and 34,310,645 lbs. scoured, or equivalent to 392,369,666 lbs. wool as in the grease. The actual quantities finally distributed between the British Government and Commonwealth manufacturers are set out in the table hereunder. The average appraised price per pound of wool in the grease was 14.72d., the average for scoured wool was 22.86d. per pound, and the average of all wool—greasy, and scoured calculated as greasy—appraised under the scheme was 14.15d. per pound. The difference of this average and the 15½d. basis being equal to 9.5 per cent. on the average appraised price, there is every probability of the total dividends approximating 10 per cent. of appraised prices. The quantities of wool shipped and the distribution thereof, also wool stored for shipment, are not available for publication.

The figures given in the following table are not final, as slight adjustments will eventually be necessary, though the result cannot be materially affected:—

**PARTICULARS OF PURCHASE OF BALANCE OF 1916-17 AUSTRALIAN WOOL CLIP.**

Purchased by		Quantity of Wool Appraised.				Values.	
		Bales.	Butts.	Bags.	lbs.	Appraised.	Based on Flat Rate.
						£	£
British Government*	Greasy Scoured	940,872	8,171	110,274	309,789,055	18,985,169	20,007,210
		141,247	153	823	33,188,552	3,170,381	4,286,854
	Total	1,082,119	8,324	111,097	342,977,607	22,155,550	†24,294,064
Woolen Manufacturers ...	Greasy Scoured	24,077	511	9,139	8,316,016	406,519	445,281
		3,845	34	71	945,909	71,708	78,546
	Total	27,922	545	9,210	9,261,925	£ 478,227	523,827
Wool Top Manufacturers ...	Greasy Scoured	17,427	...	...	5,643,305	473,635	518,797
		820	...	...	176,184	27,197	29,790
	Total	18,247	...	...	5,819,489	500,832	†548,587
Total Purchased ...	Greasy Scoured	982,376	8,682	119,413	323,748,376	19,865,323	20,908,749
		145,912	187	894	34,310,645	3,269,286	4,431,792
	Total	1,128,288	8,869	120,307	358,059,021	23,134,609	25,340,541
Grand total in terms of Greasy	...	...	...	...	...	...	‡ 25,340,541

\* Actually purchased by British Government after meeting requirements of Commonwealth manufacturers. † After crediting £25,937 to the British Government for slightly higher grade wools selected by the Commonwealth manufacturers. ‡ On the assumption that two pounds of greasy are required to produce one pound of scoured, this total is made up by:—British Government, 376,166,159 lbs.; woolen manufacturers, 10,207,834 lbs., and wool top manufacturers, 5,995,673 lbs. of wool as in the grease. § Paid for by woolen manufacturers at appraised value. ¶ Paid for at the flat rate basis of 15½d. per pound greasy, tops to be sold at prices fixed by Army Contracts' Wool Committee, London, a certain percentage of profits to be returned to the Commonwealth Government by wool tops manufacturers. †† At flat rate of 15½d. per pound.

The 1917-18 Clip having been purchased by the Imperial Government on the same terms as those for the 1916-17 season, the carrying out of the scheme will be on similar lines as those found so satisfactory, on the whole, for appraisement, etc., of the previous season's clip; a few modifications, however, may be found necessary in order to remove slight inconsistencies.



## SECTION VIII. AGRICULTURAL PRODUCTION.

### § 4. Wheat.

1. Progress of Wheat Growing, p. 325.—The following table shews the area under wheat and the yields in each State and the Commonwealth for the season 1916-17 :—

#### AREA UNDER WHEAT, AND YIELDS, 1916-17.

Particulars.	N.S.W. <sup>1</sup>	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	C'wealth. <sup>2</sup>
Area ... .. Acres	3,521,331	3,125,692	227,778	2,765,383	1,567,607	27,789	11,235,580
Yield ... .. Bush.	36,743,500	51,162,438	2,463,141	43,830,972	16,103,220	348,330	150,651,601
Average yield per acre ..	10.43	16.37	10.82	15.85	10.27	12.53	13.41

1. Including Federal Territory. Queensland.

2. Preliminary figures, with exception of Victoria and Queensland.

## SECTION XII. MINES AND MINING.

### § 1. The Mineral Wealth of Australia.

3. Value of Production during 1916.—The following table shews the value of the production of the principal minerals and of all minerals, where details are available, for each State and for the Commonwealth during the year 1916 :—

#### COMMONWEALTH MINERAL PRODUCTION IN 1916.

Minerals.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	C'wealth.
	£	£	£	£	£	£	£	£
Gold ... ..	459,370	1,090,194	913,951	33,000	4,506,532	67,072	2,554	7,074,673
Silver and lead ... ..	3,284,991	1,239	50,588	5,173	34,291	153,796	*	3,530,078
Copper ... ..	586,127	...	2,265,422	822,527	64,833	886,454	*	4,625,363
Tin ... ..	306,497	12,955	181,401	...	49,101	350,852	*	900,806
Coal ... ..	3,336,419	216,875	389,348	...	147,823	27,736	*	4,118,201
All minerals ...	10,515,856	1,403,770	4,021,007	1,212,874	4,893,417	1,521,050	*	23,567,974

\* Not yet available.

### § 12. Oil Shale and Mineral Oils.

3. Shale Oil Bounties, p. 451.—The "Shale Oil Bounty Act 1917" provides for the payment of bounty on crude shale oil in accordance with the schedule hereunder :—

Description of Goods.	Period dating from 1st Sept., 1917, during or in respect of which bounty may be paid.	Rate of Bounty payable in each year to each producer of goods produced by him at each separate deposit as prescribed.	Maximum Amount which may be paid in any one year.	Date of Expiry of Bounty.
Crude Shale Oil, as prescribed, produced in Australia from Mined Kerose Shale.	Four years.	On each gallon up to 3,500,000 gallons, 2½d. On each gallon exceeding 3,500,000 and not exceeding 5,000,000 gallons, 2d. On each gallon exceeding 5,000,000 gallons and not exceeding 8,000,000 gallons, 1½d. On each additional gallon, 1½d.	£67,500.	31st August, 1921.

## SECTION XV.

## COMMERCE.

## § 10. Customs Tariff, 1914.

**Page 578.**—On pages 578-591 of this issue, a comparison is given between the Tariff of 1908-11 and the proposed Tariff of 1914, as confirmed by the Customs Tariff Validation Act of 1917. Since the matter referred to was printed, further tariff amendments have been made as follows:—By increasing the duty on spirits and spirituous liquors from 17s. to 20s. per proof gallon; by removing the duties of 1s. 6d. per cental from wheat, and 2s. 6d. per cental from wheaten flour; by removing the duty of 10 per cent. (General Tariff) from hessians and brattice cloth, jute piece goods, bookbinders' cloth, bunting, and from bags, sacks, packs, and bales for bran, chaff, compressed fodder, potatoes, onions, ore, coal, and wool; also sugar mats, and sugar, corn, and flour sacks; and by reducing by  $\frac{3}{4}$ d. per lineal foot the duty on exposed or developed films (cinematograph) representing Australian or dramatic subjects.

The general effect of these changes, as applied to the imports for 1913, which were taken as the basis for comparisons, is to raise the equivalent *ad valorem* rate on all imports of merchandise from 21.50 per cent. to 21.87 per cent., and to raise the rate on all *dutiable* merchandise from 31.65 per cent. to 33.63 per cent. Excluding drink and tobacco, however, the average rate on all other merchandise is reduced from 14.65 per cent. to 13.75 per cent., and on all other *dutiable* merchandise from 23.23 per cent. to 22.52 per cent. The removal of duties from hessian piece goods and from bags and sacks has increased the proportion of free goods from 32.08 per cent. to 34.84 per cent.

As the imports of jute goods from India represented 27.54 per cent. of all imports from British Possessions during 1913, the removal of the 10 per cent. duty from these goods has materially altered the tariff incidence on imports into the Commonwealth from other British Dominions and Dependencies. The proportion of *dutiable* goods in relation to the total imports from these countries is reduced from 67.12 per cent. to 39.53 per cent., and the average *ad valorem* rate on all imports of merchandise is lowered from 15.89 per cent. to 13.74 per cent. These matters will be fully dealt with in the next issue of the Official Year Book.

## SECTION XVII.

## ROADS AND RAILWAYS.

## § 2. Railways.

## (B) Federal Railways.

**4. Port Augusta-Kalgoorlie Line, p. 627.**—On the 17th October, 1917, the junction of the Eastern and Western sections was effected at Ooldea, South Australia, thus rendering it possible to run a train through from Port Augusta to Kalgoorlie, or *vice versa*. On the 22nd October, the first through train left Port Augusta with an official party for the West. It is proposed to run three through trains a week from each end of the line, and the distance of 1053 miles will be covered in about 35 hours.

The effect of the opening of this line largely increases the distance over which a journey by continuous rail is possible. On page 620 *ante*, this is stated as being 3294 miles, viz., from Longreach, in Queensland, to Oodnadatta, in South Australia. It will now be possible to make a journey from Longreach, in Queensland, to Meekatharra, in Western Australia, a distance of about 4757 miles.

## SECTION XIX. COMMONWEALTH FINANCE.

### § 1. General.

7. **Accounts of Commonwealth Government, p. 723.**—(i.) On the 8th August, Sir John Forrest, Commonwealth Treasurer, delivered his Budget speech bringing forward the statement of accounts for the year 1916-17, and the estimates for the year 1917-18. A summary of these important statements is appended, but in studying them it must be distinctly remembered that the figures for 1916-17 are not yet final, and are subject to slight revision, whilst the figures for 1917-18 are estimates, and may in some instances prove to be wide of the mark. This is particularly possible in the case of the estimates of the probable yield of those taxes which are being levied for the first time.

Setting aside loan expenditure, and deducting Commonwealth payments to States from both sides of the account, the revenue and expenditure appear as follows:—

	1916-17 (Actual). £	1917-18 (Estimated). £
Expenditure ... ..	28,662,577	30,967,582
Net Revenue ... ..	27,764,754	28,040,050
Deficiency ... ..	897,823	2,927,532

The deficiency for the two years is thus seen to be £3,825,355, and it has been met by appropriating the £3,000,000 set aside in 1915-16, and transferring £825,355 from unexpended London balances. This is, however, only a temporary expedient, and the balance between current revenue and current expenditure can only be maintained permanently by a reduction of the latter, or by increased taxation, an alternative which will confront the Commonwealth Treasurer at an early date.

(ii.) *Revenue.* Details of the net revenue are given in the table which follows. They are arranged in such a way as to give due prominence to the several items composing Commonwealth taxation, which is becoming so important a factor in Public Finance.

#### FEDERAL CONSOLIDATED REVENUE.

Heading.	1916-17 (Actual). £	1917-18 (Estimate). £
<b>Taxation—</b>		
Customs and Excise ... ..	15,806,441	13,630,000
Land Tax ... ..	2,121,847	2,110,000
Income Tax ... ..	5,622,026	5,915,000
Special Income Tax of 10 per cent ... ..	...	500,000
Probate and Succession Duties ... ..	1,062,013	900,000
Entertainments Tax ... ..	110,686	225,000
War Time Profits Tax, 1915-16 and 1916-17 ... ..	...	1,000,000
<b>Total Taxation</b> ... ..	24,523,013	24,280,000
Post Office ... ..	5,488,765	5,670,000
Other Revenue ... ..	4,023,395	4,406,300
<b>Total Revenue</b> ... ..	34,035,173	34,356,300
<b>Less paid to States</b> ... ..	6,270,419	6,316,250
<b>Net Revenue</b> ... ..	27,764,754	28,040,050*

\* Exclusive of transfer from London balances.

It will be noticed that the increase in direct taxation is offset by a serious diminution of nearly two millions in customs and excise duties. This is a consequence of the restriction upon imports imposed by a scarcity of tonnage.

(iii.) *Expenditure from Consolidated Revenue.* The expenditure for 1916-17, as compared with the estimate for 1917-18, is given in the following table. It is arranged in rather an unusual way so as to shew in some detail the war expenditure from revenue.

## EXPENDITURE FROM FEDERAL CONSOLIDATED REVENUE.

Heads of Expenditure.	1916-17 (Actual).	1917-18 (Estimated).
1. Ordinary—		
Interest—	£ 357,635	£ 392,640
Sinking Fund	36,554	36,555
Invalid and Old Age Pensions	9,452,849	3,830,000
Maternity Allowance	663,035	666,000
Defence, Military	1,542,973	1,629,162
Navy	1,470,399	1,573,080
Post Office	5,362,558	5,557,612
New Works	3,928,444	1,257,617
Fleet Construction	373,036	
Remission of Duties		200,000
Other Expenditure	2,663,556	2,308,065
Total	19,779,469	17,455,731
2. Interest (States)*	106,000	402,500
3. Repayment of advance from Notes Fund in 1914-15	371,118	...
4. War—		
Interest on War loans	4,820,926	7,689,940
Sinking Fund do	1,167,127	771,260
Detained Enemy vessels	674,565	1,000,000
War Pensions (in administration)	1,185,907	2,637,168
Repatriation	...	1,000,000
Other	558,445	10,983
Total Debt	8,406,970	13,109,351
Total Expenditure from consolidated revenue	28,662,577	30,967,582

\* Interest on loans issued on behalf of States, the amounts received from which are included in miscellaneous revenue above.

The only feature calling for remark is the large reduction in the amount to be spent on "New Works" in 1917-18. This is due to the reversion to the practice, prevailing before 1916-17, of charging a substantial amount under this heading to loans.

(iv.) *War Expenditure.* The total war expenditure from consolidated revenue, and from loan, since the outbreak of the war is summarised in the following table:—

## WAR EXPENDITURE FROM REVENUE AND LOAN.

Year.	From Revenue.	From Loan.	Total.
1914-15	540,217	14,471,118	15,011,335
1915-16	3,778,378	37,423,568	41,201,946
1916-17	8,406,970	53,099,841	61,506,811
1917-18 (estimated)	13,109,351	84,051,230	97,160,581

The war expenditure includes £2,052,477 in 1916-17 for the Federal Government's purchase of steamships, and £2,850,000 in 1917-18 for the construction of silos for the purpose of wheat storage.

(v.) *Public Debt.* The Public Debt of the Commonwealth at the 30th June, 1917, amounted to £169,177,767, detailed as follows:—

**FEDERAL PUBLIC DEBT, 30th JUNE, 1917.**

Heading.	£
War loans in Australia due 1925 ... ..	79,454,720
War Savings Certificates ... ..	736,000
War loan from Imperial Government ... ..	47,774,269
Loans raised in London for States ... ..	7,500,000
Inscribed Stock, 3½% ... ..	4,580,000
Treasury Bills, 4% ... ..	4,437,543
Balance of loans taken over from South Australia ... ..	4,531,519
Transferred properties ... ..	10,789,739
Accrued deferred pay ... ..	9,373,977
Total Debt ... ..	169,177,767