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OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES,
1937-38.

No. 2. BRICKS, POTTERY AND EARTHENWARE.

PREPARED UNDER INSTRUCTIONS FROM
THE HONORABLE THE TREASURER.

BY

ROLAND WILSON, B.Com., D.Phil., Ph.D.,
COMMONWEALTH STATISTICIAN.

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P R E F A C E

1. Industries included in the Series: A complete list of the industries for which summaries in this series are being issued is given on the back of the cover page. They will be published as the material becomes available, and not necessarily in the order shown in the list. The following summaries have already been published: Nos. 6, 4, 3 and 1.
2. Classification of Factories: The classification of factories in Australia is based on the nature of the product. Where two or more distinct types of industrial activity are carried on in one establishment, factory proprietors are requested to furnish separate returns for each activity. In some instances, however, this is not practicable, and in such cases there is no alternative but to classify the factory according to its predominant activity. This difficulty is most acute in the Metal Trades industries (e.g. Engineering firms also producing Agricultural Implements, Stoves and Ovens, and/or Brass and Copper products); but it is also to be found in factories concerned with the treatment or manufacture of Skins, Leather, Clothing, Wood products and some other articles. In consequence, and to an extent which will vary with individual industries, the figures may include the subsidiary but extraneous activities of those establishments included in the industry, while they will exclude relevant activities which are subsidiary to the predominant activity of establishments classified to some other industry. This qualification is not important in the case of Bricks, Pottery and Earthenware, the industry with which this summary is concerned.
3. Basis of the Statistics: The scope of the factory statistics is fully explained in Part I of the annual Production Bulletin.

Briefly, a "factory" is taken to be an industrial establishment in which four or more hands are employed or in which power other than hand is used.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers, collectors, carters engaged solely on outward delivery, and retailing storemen. The figures do include, however, proprietors who work in their own business and "out-workers".

The value of output is the wholesale selling value at the factory of goods made or processed during the year, including by-products. In addition, it includes the value of other work done, such as repair work, assembling and making up for customers.

The value of production is the value of output minus the cost of raw materials, containers, power, fuel, light, lubricants, water, tools replaced, and repairs to plant.

ROLAND WILSON
Commonwealth Statistician

Canberra, A.C.T.
4th April, 1939.

BRICKS, TILES, POTTERY AND EARTHENWARE.

The industries covered by this Report include those engaged in the manufacture of Bricks, Firebricks, Tiles, Fireclay Goods, Stoneware, China, Earthenware, Porcelain and Terra Cotta. A summary of the principal statistics of these industries is given in the following Table:-

1. BRICKS, TILES, POTTERY AND EARTHENWARE - AUSTRALIA 1908 TO 1937-38.

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power, Fuel and Light Used	Value of Other Materials Used	Value of Production	Value of Output
	No.	No.	£'000	£'000	£'000	£'000	£'000
1908	426	(c)5,466	478	162	85	753	1,000
1913	467	(c)8,226	938	283	159	1,446	1,888
1920-21	375	(c)9,114	1,701	581	397	2,621	3,599
1928-29	367	(d)6,684	2,036	806	685	3,102	4,593
1929-30	356	7,341	1,669	661	575	2,450	3,686
1930-31	271	3,534	686	214	189	973	1,376
1931-32	233	2,815	462	147	143	663	952
1932-33	274	3,935	652	233	224	1,007	1,464
1933-34	316	5,512	880	339	304	1,339	1,983
1934-35	334	7,433	1,239	482	471	1,981	2,934
1935-36	345	8,512	1,510	568	578	2,453	3,599
1936-37	335	9,288	1,749	625	617	2,870	4,112
1937-38	360	10,209	2,045	725	717	3,348	4,790

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Average over period worked by factory. (d) For 1928-29 and succeeding years the employment figures have been calculated on the basis of a whole year.

In the following table particulars of the Industries are given for each State during the year 1937-38.

2. BRICKS, TILES, POTTERY AND EARTHENWARE - STATES, 1937-38.

Particulars	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	172	81	32	37	28	10	360
Number Employed(a)-							
Males ..	4,827	2,961	685	726	551	165	9,915
Females ..	48	205	31	2	6	2	294
Total ..	4,875	3,166	716	728	557	167	10,209
	£	£	£	£	£	£	£
Value of -							
Salaries and Wages Paid (b) ..	1,038,841	585,323	140,925	134,358	114,400	31,276	2,045,123
Fuel used ..	340,140	230,177	37,122	50,102	55,369	12,484	725,394
Materials etc. used ..	385,844	216,593	23,585	33,719	42,818	14,271	716,830
Production ..	1,790,759	934,428	185,726	189,478	196,305	51,146	3,347,842
Output ..	2,516,743	1,381,198	246,433	273,299	294,492	77,901	4,790,066
Land and Buildings ..	1,029,698	564,158	86,998	116,143	87,285	16,570	1,900,852
Plant and Machinery ..	1,253,806	566,624	135,025	138,044	136,726	27,243	2,257,466
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines Ordinarily in use ..	16,723	13,774	3,145	2,723	2,671	599	39,635

(a) Includes Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors.

/ Particulars

Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years indicated.

3. AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE - AUSTRALIA, 1908 TO 1937-38.

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged(b)	Value of Production per Person Engaged(b)	Ratio per cent of Salaries and Wages to Value of Production
	£	£	£	%
1908	94	183	138	63.48
1913	119	229	176	64.86
1920-21	192	395	288	64.89
1928-29	240	529	357	65.61
1929-30	233	502	334	66.11
1930-31	201	389	275	70.50
1931-32	171	338	235	69.66
1932-33	172	372	256	64.71
1933-34	165	360	243	65.72
1934-35	171	395	266	62.55
1935-36	182	423	288	61.59
1936-37	193	443	309	60.94
1937-38	205	469	328	61.09

(a) Excludes Working Proprietors and amounts drawn by them. (b) Including Working Proprietors.

Particulars of the articles produced in Bricks, Tiles, Pottery and Earthenware factories during 1937-38 are shown in the following table. The quantities and values shown here are those furnished by the establishments included in this Summary only. The figures do not include similar articles produced in establishments not classified in the industrial group "Bricks, Tiles, Pottery and Earthenware".

4. ARTICLES PRODUCED - AUSTRALIA 1937-38.

Articles Produced	Unit of Quantity	Quantity	Value £
Bricks ..	1,000	688,518	2,268,562
Firebricks and Blocks..	1,000	29,888	499,232
Tiles - Roofing ..	1,000	36,278	479,631
Flooring and wall, Glazed and Un-glazed ..	sq.yds.	165,469	115,721
Stoneware Pipes and Fittings ..	-	(a)	775,269
Terra Cotta Ware for building purposes ..	-	(a)	89,432
Terra Cotta Ware Other than for building purposes ..	-	(a)	24,395
Porcelain Insulators and Electrical Fittings ..	-	(a)	148,048
Other Porcelain Ware ..	-	(a)	12,426
Other Chinaware ..	-	(a)	1,062
Sanitary Earthenware and Enamelled Fireclay for building purposes including sanitary wall fittings ..	-	(a)	181,534
Domestic Earthenware and Stoneware ..	-	(a)	94,791
Other Earthenware, Stoneware and Enamelled Fireclay ..	-	(a)	41,516
Other Articles Produced ..	-	(a)	58,427
Total Value of Output:		Value Only	4,790,066

(a) Not collected.

The quantities and values of Bricks produced in Australia are given in the next table for the years indicated.

5. PRODUCTION OF BRICKS - AUSTRALIA 1908 TO 1937-38.

Year	Quantity 1,000	Value £	Average Value per 1,000 £ s. d.	Year	Quantity 1,000	Value £	Average Value per 1,000 £ s. d.
1908	417,524	760,251	1.16. 5	1932-33	184,896	571,050	3. 1. 9
1913	706,639	1,481,110	2. 1.11	1933-34	358,165	925,295	2.12. 3
1920-21	684,891	2,169,599	3. 3. 4	1934-35	528,945	1,421,746	2.13. 9
1929-30	571,041	2,063,443	3.12. 3	1935-36	623,379	1,755,081	2.16. 4
1930-31	119,320	396,195	3. 6. 5	1936-37	636,815	1,986,731	3. 2. 5
1931-32	83,224	255,549	3. 1. 5	1937-38	688,518	2,268,562	3. 5.11

The number employed shown in Table 2 has been adjusted to represent the average employment over the whole year in those cases where short time was worked. In the following table, the factories have been classified according to the average number employed during the actual period worked.

6. FACTORIES: CLASSIFIED ACCORDING TO HANDS EMPLOYED - AUSTRALIA. 1908 TO 1936-37.

Number of Persons Employed in each Factory	1908		1913		1920-21		1928-29		1936-37(a)	
	Number of Fac- tories	Number Em- ployed	Number of Fac- tories	Number Em- ployed	Number of Fac- tories	Number Em- ployed	Number of Fac- tories	Number Em- ployed	Number of Fac- tories	Number Em- ployed
Under 4	97	242	119	283	61	144	62	129	36	84
4	86	344	57	228	27	108	31	124	20	80
5 to 10	119	781	122	852	86	613	70	502	80	555
11 to 20	50	865	54	792	47	652	57	868	55	821
21 to 50	46	1,446	81	2,774	113	3,723	102	3,313	95	3,198
51 to 100	12	826	23	1,581	28	1,791	38	2,609	37	2,625
Over 100	6	962	11	1,715	13	2,083	7	1,583	12	2,093
TOTAL:	426	5,466	467	8,226	375	9,114	367	9,128	335	9,456
Average Number Employed per factory	13		18		24		25		28	

(a) 1937-38 Not yet available.

Further details of employment in the industrial group "Bricks, Tiles Pottery and Earthenware" are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment.

7. MALES EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION - AUSTRALIA. 1908 TO 1937-38.

Grade of Occupation	1908 (b)	1913 (b)	1920-21 (b)	1928-29 (c)	1937-38 (c)
Working Proprietor ..	368	374	257	212	242
Managers and Overseers ..	171	231	283	324	297
Clerical Staff ..	124	215	228	257	257
Engine Drivers and Firemen ..	177	237	226	132	92
Workers, Skilled and Unskilled..	4,198	6,746	7,678	7,400	8,940
Other (Carters and Messengers) ..	327	310	252	130	87
Total Males:	5,365	8,113	8,924	8,455	9,915
Total Females (a):	101	113	190	229	294
TOTAL ALL PERSONS:	5,466	8,226	9,114	8,684	10,209

(a) Mainly Clerical Staff. (b) Average over period of operation. (c) Average over whole year.

The next table shows the actual number of persons employed (excluding Working Proprietors) on the pay-day nearest to the 15th of each month for the years 1936-37 and 1937-38.

/ 8. Persons

8. PERSONS EMPLOYED ON PAY DAY NEAREST TO THE 15TH OF EACH MONTH.
AUSTRALIA, 1936-37 AND 1937-38 (WORKING PROPRIETORS EXCLUDED).

Month	1936-37			1937-38		
	Males	Females	Total	Males	Females	Total
	No.	No.	No.	No.	No.	No.
July ..	8,326	258	8,584	9,055	280	9,335
August ..	8,449	255	8,704	9,321	292	9,613
September ..	8,746	257	9,003	9,517	288	9,805
October ..	8,892	254	9,146	9,652	292	9,944
November ..	8,959	262	9,221	9,735	287	10,022
December ..	8,936	266	9,202	9,566	284	9,850
January ..	8,854	259	9,113	9,647	286	9,933
February ..	8,950	268	9,218	9,820	285	10,105
March ..	8,969	271	9,240	9,880	286	10,166
April ..	8,859	264	9,123	9,967	292	10,259
May ..	8,872	267	9,139	9,825	292	10,117
June ..	8,913	264	9,177	9,798	293	10,091
Average	8,810	262	9,072	9,649	288	9,937

A classification of the number of employees according to age on or about the 15th June, 1938 is shown in the next table.

9. CLASSIFICATION OF EMPLOYEES ACCORDING TO AGE, JUNE, 1938.

Sex	Under 16 years	16 and under 21 years	Adults	Total
	No.	No.	No.	No.
Males ..	398	1,742	7,658	9,798
Per Cent of Total	4%	18%	78%	100%
Females ..	22	120	151	293
Per Cent of Total	7%	41%	52%	100%
Persons ..	420	1,862	7,809	10,091
Per Cent of Total	4%	19%	77%	100%

Statistics of the power equipment of the factories included in this group are given in the next table. The details given include the rated horse power of engines ordinarily in use for the years 1936-37 and 1937-38 together with those in reserve or idle in the latter year.

10. POWER EMPLOYED TO DRIVE MACHINERY - AUSTRALIA.

Class of Engine	Rated H.P. of Engines		
	Ordinarily in use		In Reserve or Idle
	1936-37	1937-38	1937-38
Steam - Reciprocating ..	4,999	5,152	1,024
Turbine ..	40	115	-
Internal Combustion -			
Gas ..	1,705	1,881	38
Petrol or Other Light Oils ..	324	222	12
Heavy Oils ..	1,272	1,647	394
Water ..	76	-	-
Total Prime Movers:	8,416	9,017	1,468
Motors driven by electricity -			
Purchased ..	27,589	30,618	3,627
Own Generation ..	6	-	3
Total Electricity:	27,595	30,618	3,630
TOTAL POWER USED (a):	36,005	39,635	5,098

(a) Without duplication.

Details of the quantities and values of power, fuel and light used in Bricks, Tiles, Pottery and Earthenware factories are shown in the following table.

11. POWER, FUEL AND LIGHT ETC. USED - AUSTRALIA, 1937-38.

Particulars	Unit of Quantity	Quantity	Value £
Coal - Black ..	Ton	392,634	471,561
Brown ..	"	11,486	14,519
Coke ..	"	2,572	4,009
Wood ..	"	138,081	85,251
Fuel Oil ..	Gallon	340,278	9,468
Electricity ..	(a)		102,873
Gas ..	(a)		821
Other (Charcoal etc.) ..	(a)		1,376
Water used ..	(a)		11,779
Lubricating Oil ..	(a)		23,737
TOTAL:		Value only	725,394

(a) Value only available.

Particulars of the book values of premises and plant used for factory purposes as at the 30th June for each of the five years ended 1938 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 1937-38 are also shown. It should be noted that the amounts expended in Additions and Replacements refer to expenditure incurred by existing factories and do not include the costs of erecting and equipping new factories; these latter items, however, are included with the book values shown at 30th June. The amounts shown for Depreciation are those returned by factories. Changes in the number of factories operating and other factors affect comparison from year to year.

12. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY - AUSTRALIA 1937-38.

Particulars	Land and Buildings £	Plant and Machinery £
Additions and Replacements made during year(a)	89,463	145,308
Depreciation allowed during year (a)	33,910	105,963
Book Value (a) as at 30th June -		
1938 ..	1,900,852	2,257,468
1937 ..	1,874,375	2,114,382
1936 ..	1,971,562	2,141,465
1935 ..	1,861,714	2,008,553
1934 ..	1,712,412	1,855,936

(a) See Note above.

The values of imports and exports of a number of items included in the group "Bricks, Tiles, Pottery and Earthenware" are given in the following tables:-

13. IMPORTS OF SPECIFIED ITEMS OF EARTHENWARE, CHINAWARE, TILES, ETC.
AUSTRALIA.

Item	1908 £A	1913 £A	1920-21 £A	1928-29 £A	1936-37 £A	1937-38 £A
Crockery and Other Household Ware of China, Porcelain or Parian Ware	138,993	173,245	424,716	407,733	228,684	510,812
of Earthenware, Brownware or Stoneware ..	181,280	281,401	534,205	333,748	410,562	229,729
Tiles -				(19,425	4,318	10,199
Flooring and Mosaic) ..				(180,842	194,571	208,724
Glazed, Wall and Hearth) ..	34,895	78,240	121,552	(1,074	188	317
Roofing and All Other) ..				(45,601	61,717	337
Fire Bricks, Other of all kinds	10,183	26,072	15,615	45,151	619	
Glazed Bricks and Lumps ..						
Sanitary and Lavatory Articles including Kitchen Sinks and Laundry Troughs -					(10,604	9,595
of Glazed or Enamelled Fireclay of Earthenware or Other				(44,308	(	
Materials, n.e.s.)					(40,523	53,280
Electrical Ware of Earthenware and Porcelain Ware including Insulators ..	174,205	257,540	534,205	(47,028	34,504	37,335
All other China ware, Parian Ware, Porcelain Ware, Earthenware, Brownware and Stoneware ..				(16,426	15,058	19,501

14. EXPORTS OF SPECIFIED ITEMS OF EARTHENWARE, CHINAWARE, TILES ETC. -
AUSTRALIA.

Item	1908 £A	1913 £A	1920-21 £A	1928-29 £A	1936-37 £A	1937-38 £A
Bricks - Fire and Glazed and Firelumps ..	(a) 338	(a) 857	(a) 1,650	2,789	5,005	4,178
China, Parian and Porcelain Ware	1,050	2,194	5,170	3,869	2,155	2,066
Earthenware, Brownware, and Stoneware including Fireclay manufactures ..	(b) 9,854	(b) 7,483	(b) 57,325	40,766	43,842	63,749
Tiles ..	1,166	2,267	9,284	2,872	3,250	8,513

(a) Excluding Firelumps.

(b) Including Firelumps.

The following table shows the weekly minimum rates of wage and hours of labour in operation at 30th June, 1938 as prescribed by State Industrial Tribunals. Where no rate is shown it indicates that the particular occupation is

not specifically provided for in the award or determination.

15. BRICKS, POTTERY AND EARTHENWARE.

Minimum Weekly Rate of Wage and Hours of Labour as at 30th June, 1938

Occupation	New South Wales		Victoria		Queensland		South Australia		Western Australia		Tasmania	
	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage
Brick Trade, Fire-Bricks & Texture Bricks -												
Burners ..	44	109/-	44	86/6	44	89/-	44	83/-	48	91/6	44	90/9
Crusher Attendants ..	44	94/-	44	80/6 & 83/-	44	83/6	44	86/-	..	..	44	88/-
Machine Drivers	44	100/9	44	80/6	44	83/6	44	86/-	44	78/- & 81/-	44	88/-
Drawers & Setters	44	109/-	44	86/-	44	81/8	44	91/-	44	86/-	44	93/6 & 96/-
Facemen ..	..	..	44	85/6 & 87/6	44	83/6	44	85/- & 90/-	44	78/-	44	88/-
Clayholemen..	44	107/9	44	85/6	44	83/6	44	85/-	44	78/- & 84/-	44	88/-
Pressers ..	..	..	44	82/-	44	81/8	44	80/-	44	86/-	44	81/-
Other Bricks												
Burners ..	44	109/-	44	86/6	44	89/-	44	83/-	48	91/6	44	90/9
Machine Drivers	44	100/9	44	83/6	44	83/6	44	86/-	44	78/- & 81/-	44	88/-
Dry pan attendants ..	44	94/- & 109/-	44	83/6 & 87/6	44	83/6	44	86/-	..	..	44	88/-
Crusher Attendants ..	44	94/-	44	82/- & 87/6	44	83/6	44	86/-	..	..	44	88/-
Drawers & Setters	44	109/-	44	88/6 & 91/-	44	81/8	44	91/-	44	86/-	44	93/6 & 96/-
Facemen ..	44	110/10	44	86/6 & 91/6	44	83/6	44	85/- & 90/-	44	78/-	44	88/-
Clayholemen..	44	107/9	44	85/6	44	83/6	44	85/-	44	78/- & 84/-	44	88/-
Hand moulders	44	109/-	44	86/-	44	85/4	44	92/-	44	86/-	44	88/-
Loftmen ..	44	87/-	44	81/6	44	81/8	44	80/-	..	..	44	88/-
Yardmen ..	44	87/-	44	80/6	44	81/8	44	80/-	44	81/-	..	..
Apprentices -												
1st year ..	..	..	44	17/9	..	..	..	..	..	..	..	..
2nd year ..	..	..	44	23/6	..	..	..	..	..	..	..	..
3rd year ..	..	..	44	27/9	..	..	..	..	..	..	..	..
Improvers -												
14 years ..	..	..	44	25/9	..	..	44	20/6	..	..	..	..
15 years ..	..	..	44	26/9	..	..	44	23/6	..	..	..	..
16 years ..	..	..	44	28/3	..	..	44	30/3	..	..	44	Under 17, 30/4
17 years ..	..	..	44	31/6	..	..	44	37/-	..	..	44	17-19 36/-
18 years ..	..	..	44	38/6	..	..	44	44/-	..	..	44	19-20 48/-
19 years ..	..	..	44	50/6	..	..	44	53/9	..	..	44	20-21 Adult Rates
20 years ..	..	..	44	54/-	..	..	44	58/6	..	..	..	..
Juniors ..	44	58/5	..	..	44	63/6	..	..	44	36/8 to 64/2		

/ Pottery

15. BRICKS, POTTERY AND EARTHENWARE.
(CONTINUED).

Occupation	New South Wales		Victoria		Queens-land		South Australia		Western Australia		Tasmania	
	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage	Hrs.	Weekly Wage
Pottery & Earthenware -												
Burners, Head	44	94/-	44	86/6	44	95/-	..	..	..	..	44	81/-
Burners, Other	44	88/- & 90/6	44	82/6	44	89/-	44	83/-	44	84/6	44	75/-
Pressers ..	44	89/- to 105/-	44	80/6 to 82/6	44	81/8	44	80/-	..	..	44	81/-
Dippers ..	44	94/- & 96/-	44	81/6	44	81/8	..	..	..	..	..	..
Throwers ..	44	105/- & 108/-	44	78/6 to 81/6	44	89/- & 100/-	..	..	..	..	44	84/-
Casters ..	44	88/- to 99/-	44	81/6	44	100/-	..	..	..	..	44	84/-
Setters ..	44	89/-	44	84/6	44	81/8	44	91/-	44	76/6 & 84/6	44	79/6
Drawers ..	44	89/-	44	80/6	44	81/8	44	91/-	44	76/6 & 84/6	..	..
Sagger makers	44	89/- & 90/6	44	80/6	44	81/8	..	..	..	..	..	..
Junction Stickers ..	44	94/6	44	82/6	44	91/8	..	..	44	76/6	44	78/-
Pipe machine men ..	44	96/6	44	80/6	44	83/6	..	..	..	..	..	..
Fanmen ..	44	96/6	44	80/6	44	81/8	44	86/-	..	..	..	..
Females ..	44	42/6 to 50/-	44	42/-	..	..	..	..	..	..	..	..
Apprentices or Improvers -												
Under 15 years	..	..	44	18/-	..	..	..	..	..	..	..	..
15 years ..	44	25/- & 28/7	44	21/3	44	27/3	..	..	..	..	44	15/-
16 years ..	44	28/10 & 32/4	44	24/-	44	33/3	..	..	..	..	44	25/-
17 years ..	44	41/5 & 43/5	44	26/6	44	39/3	..	..	..	..	44	30/-
18 years ..	44	48/9 & 55/6	44	38/9	44	47/6	..	..	..	..	44	35/-
19 years ..	44	55/5 & 63/8	44	45/3	44	57/6	..	..	..	..	44	42/-
20 years ..	44	57/7 & 71/6	44	55/9	44	67/6	..	..	..	..	44	Adult Rates