

## 5. AREA HEALTH SERVICES

Information on the health of Aboriginal and Torres Strait Islander mothers, and mothers born in non-English speaking countries is shown in Chapters 6 and 7 respectively.

### Confinements

The largest numbers of confinements in 2004 were among mothers resident in the Sydney South West (18,720, 22.2 per cent), followed by Sydney West (15,834, 18.8 per cent) and South Eastern Sydney & Illawarra (14,121, 16.8 per cent) Areas (Table 22).

### Maternal age

The proportion of women giving birth at less than 20 years of age varied from 1.7 per cent in the Northern Sydney & Central Coast Area to 8.5 per cent in the Greater Western Area, while the proportion of mothers giving birth at 35 years of age or more ranged from 14.0 per cent in the Greater Western Area to 28.4 per cent in the Northern Sydney & Central Coast Area (Table 22).

### Maternal country of birth

Seventy-nine per cent of women who gave birth in NSW in 2004 were born in English speaking countries, 11.0 per cent were born in Asian countries, and 4.6 per cent were born in the Middle East or Africa (Table 23).

The highest proportions of mothers born in non-English speaking countries were in the Sydney South West and Sydney West Areas. In Sydney South West, the majority of mothers born in non-English speaking countries were born in South East Asia, and the Middle East and Africa. In Sydney West, the most common maternal countries of birth were in the Middle East and Africa, and in South East and Southern Asia.

### Maternal Aboriginality

In 2004, 2.7 per cent of mothers were reported to be Aboriginal or Torres Strait Islander (Table 24). The proportion of Aboriginal or Torres Strait Islander mothers varied from 0.7 per cent in the Northern Sydney & Central Coast Area to 13.3 per cent in the Greater Western Area.

TABLE 22

MATERNAL AGE BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Maternal age (years)																TOTAL	
	12-19		20-24		25-29		30-34		35-39		40-44		45+		Not stated		No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%				
Sydney South West	593	3.2	2748	14.7	5377	28.7	6317	33.7	3006	16.1	644	3.4	32	0.2	3	0.0	18720	100.0
South Eastern Sydney & Illawarra	351	2.5	1370	9.7	3647	25.8	5424	38.4	2750	19.5	554	3.9	24	0.2	1	0.0	14121	100.0
Sydney West	667	4.2	2520	15.9	4862	30.7	5173	32.7	2167	13.7	426	2.7	17	0.1	2	0.0	15834	100.0
Northern Sydney & Central Coast	220	1.7	974	7.5	2705	20.8	5431	41.7	3043	23.4	624	4.8	34	0.3	1	0.0	13032	100.0
Hunter & New England	607	6.3	1823	18.8	2868	29.7	2879	29.8	1247	12.9	236	2.4	12	0.1	0	0.0	9672	100.0
North Coast	343	7.3	952	20.3	1257	26.8	1385	29.5	604	12.9	139	3.0	9	0.2	1	0.0	4690	100.0
Greater Southern	255	6.6	791	20.6	1148	29.9	1061	27.6	469	12.2	99	2.6	6	0.2	9	0.2	3838	100.0
Greater Western	322	8.5	811	21.4	1060	28.0	1062	28.1	441	11.7	80	2.1	7	0.2	1	0.0	3784	100.0
Other-Not stated	29	4.9	106	17.8	189	31.7	174	29.1	81	13.6	17	2.8	1	0.2	0	0.0	597	100.0
TOTAL	3387	4.0	12095	14.3	23113	27.4	28906	34.3	13808	16.4	2819	3.3	142	0.2	18	0.0	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

TABLE 23

MATERNAL COUNTRY OF BIRTH BY HEALTH AREA OF RESIDENCE, NSW 2004<sup>#</sup>

Health Area	Country of birth group																				TOTAL	
	English speaking		Central & South America		Melanesia, Southern Micronesia & Polynesia				Western & Northern Europe		Eastern Europe, Russia, Central Asian & Baltic States		Middle East & Africa		South East Asia		North East Asia		Southern Asia			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		No.
Sydney South West	11445	61.3	265	1.4	683	3.7	393	2.1	115	0.6	122	0.7	1873	10.0	2398	12.8	839	4.5	535	2.9	18668	100.0
South Eastern Sydney & Illawarra	11328	80.6	146	1.0	140	1.0	258	1.8	157	1.1	171	1.2	441	3.1	573	4.1	638	4.5	205	1.5	14057	100.0
Sydney West	11211	70.9	122	0.8	513	3.2	146	0.9	88	0.6	90	0.6	1239	7.8	875	5.5	665	4.2	863	5.5	15812	100.0
Northern Sydney & Central Coast	10882	83.6	90	0.7	113	0.9	89	0.7	191	1.5	102	0.8	221	1.7	420	3.2	658	5.1	254	2.0	13020	100.0
Hunter & New England	9355	96.8	17	0.2	55	0.6	17	0.2	32	0.3	16	0.2	60	0.6	67	0.7	34	0.4	14	0.1	9667	100.0
North Coast	4479	95.6	16	0.3	29	0.6	6	0.1	42	0.9	5	0.1	13	0.3	58	1.2	19	0.4	16	0.3	4683	100.0
Greater Southern	3681	96.1	5	0.1	34	0.9	11	0.3	13	0.3	4	0.1	17	0.4	22	0.6	12	0.3	32	0.8	3831	100.0
Greater Western	3701	97.9	4	0.1	13	0.3	4	0.1	7	0.2	5	0.1	9	0.2	22	0.6	9	0.2	7	0.2	3781	100.0
Other-Not stated	539	91.5	10	1.7	4	0.7	2	0.3	4	0.7	3	0.5	3	0.5	10	1.7	10	1.7	4	0.7	589	100.0
TOTAL	66621	79.2	675	0.8	1584	1.9	926	1.1	649	0.8	518	0.6	3876	4.6	4445	5.3	2884	3.4	1930	2.3	84108	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

<sup>#</sup> Excludes 180 mothers for which country of birth was not stated. Maternal countries of birth and country of birth groups are shown in Appendix 3.

TABLE 24

## MATERNAL ABORIGINALITY BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Aboriginal Torres Strait Islander		Aboriginality Non-Aboriginal Torres Strait Islander		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
	Sydney South West	164	0.9	18553	99.1	3	0.0	18720
South Eastern Sydney & Illawarra	221	1.6	13889	98.4	11	0.1	14121	100.0
Sydney West	238	1.5	15595	98.5	1	0.0	15834	100.0
Northern Sydney & Central Coast	93	0.7	12936	99.3	3	0.0	13032	100.0
Hunter & New England	508	5.3	9163	94.7	1	0.0	9672	100.0
North Coast	390	8.3	4295	91.6	5	0.1	4690	100.0
Greater Southern	173	4.5	3658	95.3	7	0.2	3838	100.0
Greater Western	505	13.3	3279	86.7	0	0.0	3784	100.0
Other-Not stated	16	2.7	580	97.2	1	0.2	597	100.0
TOTAL	2308	2.7	81948	97.2	32	0.0	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

## Duration of pregnancy at first antenatal visit

In 2004, 87.5 per cent of mothers commenced antenatal care prior to 20 weeks gestation. This percentage varied from 82.6 per cent in the Sydney West Area to 95.1 per cent in the Northern Sydney and Central Coast Area (Table 25).

**TABLE 25**

### DURATION OF PREGNANCY AT FIRST ANTENATAL CHECK BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Duration of pregnancy at first antenatal visit						TOTAL	
	0-19		20-plus		Not stated		No.	%
	No.	%	No.	%	No.	%	No.	%
Sydney South West	15528	82.9	3094	16.5	98	0.5	18720	100.0
South Eastern Sydney & Illawarra	12871	91.1	1183	8.4	67	0.5	14121	100.0
Sydney West	13077	82.6	2677	16.9	80	0.5	15834	100.0
Northern Sydney & Central Coast	12391	95.1	618	4.7	23	0.2	13032	100.0
Hunter & New England	8334	86.2	1196	12.4	142	1.5	9672	100.0
North Coast	4232	90.2	394	8.4	64	1.4	4690	100.0
Greater Southern	3439	89.6	359	9.4	40	1.0	3838	100.0
Greater Western	3377	89.2	354	9.4	53	1.4	3784	100.0
Other-Not stated	526	88.1	59	9.9	12	2.0	597	100.0
TOTAL	73775	87.5	9934	11.8	579	0.7	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

## Smoking in pregnancy

In 2004, 14.2 per cent of mothers reported smoking in the second half of pregnancy (Table 26). The lowest reported rate was among mothers resident in the Northern Sydney & Central Coast Area (7.7 per cent) and the highest rate among residents of the Greater Western Area (29.0 per cent).

**TABLE 26**

### NUMBER OF CIGARETTES SMOKED IN THE SECOND HALF OF PREGNANCY BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	None		Cigarettes smoked in the second half of pregnancy				Not stated		TOTAL			
	No.	%	1-10 per day	More than ten per day	Smoked-amount not stated	Not stated	No.	%	No.	%		
	No.	%	No.	%	No.	%	No.	%	No.	%		
Sydney South West	16849	90.0	1015	5.4	810	4.3	46	0.2	0	0.0	18720	100.0
South Eastern Sydney & Illawarra	12734	90.2	891	6.3	445	3.2	49	0.3	2	0.0	14121	100.0
Sydney West	13598	85.9	1173	7.4	1016	6.4	47	0.3	0	0.0	15834	100.0
Northern Sydney & Central Coast	12022	92.2	579	4.4	408	3.1	22	0.2	1	0.0	13032	100.0
Hunter & New England	7522	77.8	1051	10.9	1051	10.9	47	0.5	1	0.0	9672	100.0
North Coast	3536	75.4	584	12.5	515	11.0	51	1.1	4	0.1	4690	100.0
Greater Southern	2894	75.4	467	12.2	466	12.1	9	0.2	2	0.1	3838	100.0
Greater Western	2681	70.9	475	12.6	598	15.8	25	0.7	5	0.1	3784	100.0
Other-Not stated	457	76.5	68	11.4	69	11.6	1	0.2	2	0.3	597	100.0
TOTAL	72293	85.8	6303	7.5	5378	6.4	297	0.4	17	0.0	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

## Place of birth

Ninety-six per cent of mothers chose to deliver in a hospital delivery suite in 2004, compared to 3.7 per cent who planned a birth centre birth and 0.1 per cent who planned a home birth (Table 27). Planned birth centre births were most commonly reported in the Sydney West, Sydney South West, and South Eastern Sydney & Illawarra Areas.

## Labour

In 2004, the onset of labour was spontaneous in 60.3 per cent of confinements (Table 28). Labour was induced in 24.4 per cent of confinements and no labour (elective caesarean section) was reported in 15.3 per cent. The rate of spontaneous onset of labour was highest among residents of the North Coast Area (63.4 per cent). The highest rate of induction of labour was among residents of the Hunter & New England Area (26.2 per cent).

**TABLE 27**

### PLACE OF BIRTH BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Hospital		Birth centre		Planned birth centre-hospital admission		Place of birth Planned home birth		Planned home birth-hospital admission		Born before arrival		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
	Sydney South West	17839	95.3	573	3.1	211	1.1	12	0.1	1	0.0	84	0.4	18720
South Eastern Sydney & Illawarra	13271	94.0	440	3.1	343	2.4	17	0.1	2	0.0	48	0.3	14121	100.0
Sydney West	14972	94.6	359	2.3	430	2.7	5	0.0	0	0.0	68	0.4	15834	100.0
Northern Sydney & Central Coast	12692	97.4	193	1.5	81	0.6	18	0.1	4	0.0	44	0.3	13032	100.0
Hunter & New England	9134	94.4	433	4.5	56	0.6	2	0.0	2	0.0	45	0.5	9672	100.0
North Coast	4640	98.9	2	0.0	2	0.0	19	0.4	10	0.2	17	0.4	4690	100.0
Greater Southern	3815	99.4	1	0.0	1	0.0	9	0.2	0	0.0	12	0.3	3838	100.0
Greater Western	3756	99.3	2	0.1	1	0.0	2	0.1	1	0.0	22	0.6	3784	100.0
Other-Not stated	582	97.5	0	0.0	1	0.2	9	1.5	1	0.2	4	0.7	597	100.0
TOTAL	80701	95.7	2003	2.4	1126	1.3	93	0.1	21	0.0	344	0.4	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

**TABLE 28**

### ONSET AND AUGMENTATION OF LABOUR BY HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics prostaglandins		No labour		Onset of labour Induced-oxytocics prostaglandins		Induced-ARM only		Induced-ARM+oxytocics prostaglandins		Induced-other <sup>#</sup>		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
	Sydney South West	8689	46.4	1020	5.4	1999	10.7	2560	13.7	1947	10.4	252	1.3	2161	11.5	92	0.5	0	0.0	18720
South Eastern Sydney & Illawarra	5989	42.4	1003	7.1	1316	9.3	2395	17.0	1112	7.9	185	1.3	2040	14.4	80	0.6	1	0.0	14121	100.0
Sydney West	7144	45.1	1103	7.0	1392	8.8	2225	14.1	1038	6.6	179	1.1	2695	17.0	58	0.4	0	0.0	15834	100.0
Northern Sydney & Central Coast	5225	40.1	828	6.4	1314	10.1	2533	19.4	871	6.7	144	1.1	2094	16.1	23	0.2	0	0.0	13032	100.0
Hunter & New England	4416	45.7	723	7.5	579	6.0	1418	14.7	788	8.1	232	2.4	1481	15.3	35	0.4	0	0.0	9672	100.0
North Coast	2041	43.5	541	11.5	391	8.3	678	14.5	373	8.0	77	1.6	580	12.4	9	0.2	0	0.0	4690	100.0
Greater Southern	1737	45.3	365	9.5	262	6.8	524	13.7	531	13.8	89	2.3	316	8.2	14	0.4	0	0.0	3838	100.0
Greater Western	1627	43.0	448	11.8	272	7.2	530	14.0	336	8.9	97	2.6	466	12.3	8	0.2	0	0.0	3784	100.0
Other-Not stated	269	45.1	59	9.9	55	9.2	67	11.2	53	8.9	12	2.0	79	13.2	3	0.5	0	0.0	597	100.0
TOTAL	37137	44.1	6090	7.2	7580	9.0	12930	15.3	7049	8.4	1267	1.5	11912	14.1	322	0.4	1	0.0	84288	100.0

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

# This category includes other forms of induction such as Foley's catheter.

## Delivery

Sixty-two per cent of confinements were by normal vaginal birth, 10.3 per cent were instrumental and 27.2 per cent were by caesarean section (Table 29). The highest rate of normal vaginal birth was among residents of the Greater Western Area (67.8 per cent), while the highest rates of instrumental delivery were among residents of

South Eastern Sydney and Illawarra (12.9 per cent). The caesarean section rate varied from 24.1 per cent among mothers resident in the Sydney South West Area to 32.7 per cent in the Northern Sydney & Central Coast Area.

**TABLE 29**

**TYPE OF DELIVERY BY HEALTH AREA OF RESIDENCE, NSW 2004**

Health Area	Normal vaginal birth		Forceps		Type of delivery				Elective caesarean section		Emergency caesarean section <sup>#</sup>		Not stated		TOTAL	
	No.	%	No.	%	Vacuum extraction		Vaginal breech		No.	%	No.	%	No.	%	No.	%
					No.	%	No.	%								
Sydney South West	12190	65.1	422	2.3	1514	8.1	77	0.4	2560	13.7	1957	10.5	0	0.0	18720	100.0
South Eastern Sydney & Illawarra	8017	56.8	544	3.9	1280	9.1	46	0.3	2395	17.0	1836	13.0	3	0.0	14121	100.0
Sydney West	10058	63.5	744	4.7	757	4.8	66	0.4	2225	14.1	1984	12.5	0	0.0	15834	100.0
Northern Sydney & Central Coast	7215	55.4	399	3.1	1120	8.6	41	0.3	2533	19.4	1722	13.2	2	0.0	13032	100.0
Hunter & New England	6322	65.4	250	2.6	600	6.2	55	0.6	1418	14.7	1027	10.6	0	0.0	9672	100.0
North Coast	3128	66.7	133	2.8	196	4.2	24	0.5	678	14A.5	531	11.3	0	0.0	4690	100.0
Greater Southern	2441	63.6	169	4.4	253	6.6	14	0.4	524	13.7	435	11.3	2	0.1	3838	100.0
Greater Western	2565	67.8	88	2.3	154	4.1	22	0.6	530	14A.0	425	11.2	0	0.0	3784	100.0
Other–Not stated	430	72.0	13	2.2	28	4.7	2	0.3	67	11.2	57	9.5	0	0.0	597	100.0
<b>TOTAL</b>	<b>52366</b>	<b>62.1</b>	<b>2762</b>	<b>3.3</b>	<b>5902</b>	<b>7.0</b>	<b>347</b>	<b>0.4</b>	<b>12930</b>	<b>15.3</b>	<b>9974</b>	<b>11.8</b>	<b>7</b>	<b>0.0</b>	<b>84288</b>	<b>100.0</b>

Source: NSW Midwives Data Collection (HOIST). Centre for Epidemiology and Research, NSW Department of Health.  
<sup>#</sup> Emergency caesarean section includes caesarean section where the onset of labour was not stated.

## Birth weight

In 2004, 6.4 per cent of births were low birth weight (less than 2,500 grams). These comprised 0.7 per cent of birth weight less than 1,000 grams, 0.7 per cent in the 1,000 to 1,499 gram range, and 5.0 per cent in the 1,500 to 2,499 gram range (Table 30). Rates of low birth weight ranged from 5.3 per cent in Greater Southern Area to 7.6 per cent in the Hunter and New England Area.

**TABLE 30**

**BIRTHS BY BIRTH WEIGHT AND HEALTH AREA OF RESIDENCE, NSW 2004**

Health Area	Birth weight (grams)																TOTAL							
	Less than 500		500–999		1000–1499		1500–1999		2000–2499		2500–2999		3000–3499		3500–3999			4000–4499		4500+		Not stated	No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		No.	%	No.	%			
Sydney South West	62	0.3	95	0.5	139	0.7	219	1.2	752	4.0	3022	15.9	7075	37.3	5540	29.2	1768	9.3	294	1.5	12	0.1	18978	100.0
South Eastern Sydney & Illawarra	33	0.2	68	0.5	84	0.6	152	1.1	495	3.4	2180	15.2	5100	35.5	4522	31.5	1451	10.1	275	1.9	13	0.1	14373	100.0
Sydney West	43	0.3	78	0.5	94	0.6	208	1.3	605	3.8	2500	15.5	5789	36.0	4886	30.4	1593	9.9	283	1.8	5	0.0	16084	100.0
Northern Sydney & Central Coast	19	0.1	58	0.4	86	0.6	168	1.3	428	3.2	1679	12.6	4695	35.4	4336	32.7	1557	11.7	250	1.9	2	0.0	13278	100.0
Hunter & New England	28	0.3	55	0.6	86	0.9	138	1.4	435	4.4	1474	15.0	3226	32.9	3077	31.3	1090	11.1	198	2.0	9	0.1	9816	100.0
North Coast	11	0.2	14	0.3	25	0.5	67	1.4	196	4.1	740	15.6	1560	32.8	1506	31.7	542	11.4	94	2.0	2	0.0	4757	100.0
Greater Southern	7	0.2	5	0.1	17	0.4	35	0.9	143	3.7	533	13.7	1300	33.5	1294	33.3	449	11.6	95	2.4	5	0.1	3883	100.0
Greater Western	11	0.3	20	0.5	23	0.6	66	1.7	156	4.1	572	14.9	1279	33.2	1227	31.9	403	10.5	89	2.3	1	0.0	3847	100.0
Other–Not stated	0	0.0	2	0.3	4	0.7	6	1.0	21	3.4	97	15.9	214	35.1	182	29.8	78	12.8	6	1.0	0	0.0	610	100.0
<b>TOTAL</b>	<b>214</b>	<b>0.2</b>	<b>395</b>	<b>0.5</b>	<b>558</b>	<b>0.7</b>	<b>1059</b>	<b>1.2</b>	<b>3231</b>	<b>3.8</b>	<b>12797</b>	<b>14.9</b>	<b>30238</b>	<b>35.3</b>	<b>26570</b>	<b>31.0</b>	<b>8931</b>	<b>10.4</b>	<b>1584</b>	<b>1.8</b>	<b>49</b>	<b>0.1</b>	<b>85626</b>	<b>100.0</b>

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

## Gestational age

The majority of births (90.6 per cent) were at term, and 2.1 per cent were post-term (42-plus weeks). The 7.3 per cent of preterm births comprised 0.7 per cent born at less than 28 weeks, 0.8 per cent at 28–31 weeks, and 5.8 per

cent at 32–36 weeks. The highest rate of preterm birth was in the Hunter and New England Area (8.8 per cent), while the lowest was 6.0 per cent in the Greater Southern Area (Table 31).

**TABLE 31**

### BIRTHS BY GESTATIONAL AGE AND HEALTH AREA OF RESIDENCE, NSW 2004

Health Area	Less than 28		28–31		32–36		Gestational age (weeks) 37–41		42+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney South West	156	0.8	157	0.8	1080	5.7	17135	90.3	449	2.4	1	0.0	18978	100.0
South Eastern Sydney & Illawarra	96	0.7	100	0.7	794	5.5	13079	91.0	303	2.1	1	0.0	14373	100.0
Sydney West	118	0.7	124	0.8	894	5.6	14661	91.2	287	1.8	0	0.0	16084	100.0
Northern Sydney & Central Coast	77	0.6	103	0.8	792	6.0	12024	90.6	282	2.1	0	0.0	13278	100.0
Hunter & New England	81	0.8	95	1.0	685	7.0	8689	88.5	266	2.7	0	0.0	9816	100.0
North Coast	27	0.6	29	0.6	290	6.1	4354	91.5	57	1.2	0	0.0	4757	100.0
Greater Southern	21	0.5	19	0.5	193	5.0	3583	92.3	65	1.7	2	0.1	3883	100.0
Greater Western	27	0.7	35	0.9	214	5.6	3526	91.7	45	1.2	0	0.0	3847	100.0
Other–Not stated	2	0.3	5	0.8	33	5.4	563	92.3	7	1.1	0	0.0	610	100.0
<b>TOTAL</b>	<b>605</b>	<b>0.7</b>	<b>667</b>	<b>0.8</b>	<b>4975</b>	<b>5.8</b>	<b>77614</b>	<b>90.6</b>	<b>1761</b>	<b>2.1</b>	<b>4</b>	<b>0.0</b>	<b>85626</b>	<b>100.0</b>

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

## Perinatal outcomes

The perinatal mortality rate in 2004 was 9.0 per 1,000 births. This includes all births and deaths of babies of at least 400 grams birth weight or at least 20 weeks gestation (Table 32). The rate varied from 6.7 per 1,000 in the Greater Southern and Northern Sydney and Central Coast Areas to 13.0 per 1,000 in the Greater Western Area.

**TABLE 32**

### PERINATAL MORTALITY BY HEALTH AREA OF RESIDENCE, NSW 2004<sup>#</sup>

Health Area	Liveborn surviving		Stillborn		Perinatal outcome Neonatal death		Not stated		Total births		Perinatal mortality rate/1,000 births
	No.	%	No.	%	No.	%	No.	%	No.	%	
Sydney South West	18764	98.9	146	0.8	68	0.4	0	0.0	18978	100.0	11.3
South Eastern Sydney & Illawarra	14266	99.3	77	0.5	30	0.2	0	0.0	14373	100.0	7.4
Sydney West	15941	99.1	101	0.6	41	0.3	1	0.0	16084	100.0	8.8
Northern Sydney & Central Coast	13188	99.3	67	0.5	22	0.2	1	0.0	13278	100.0	6.7
Hunter & New England	9711	98.9	74	0.8	31	0.3	0	0.0	9816	100.0	10.7
North Coast	4718	99.2	29	0.6	9	0.2	1	0.0	4757	100.0	8.0
Greater Southern	3857	99.3	22	0.6	4	0.1	0	0.0	3883	100.0	6.7
Greater Western	3796	98.7	44	1.1	6	0.2	1	0.0	3847	100.0	13.0
Other–Not stated	608	99.7	1	0.2	1	0.2	0	0.0	610	100.0	3.3
<b>TOTAL</b>	<b>84849</b>	<b>99.1</b>	<b>561</b>	<b>0.7</b>	<b>212</b>	<b>0.2</b>	<b>4</b>	<b>0.0</b>	<b>85626</b>	<b>100.0</b>	<b>9.0</b>

Source: NSW Midwives Data Collection (HOIST), Centre for Epidemiology and Research, NSW Department of Health.

<sup>#</sup> Perinatal deaths include deaths reported to the MDC only. As the MDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the MDC.

## Livebirths by statistical local areas

**TABLE 33**

**LIVEBIRTHS BY HEALTH AREA AND STATISTICAL LOCAL AREA OF RESIDENCE, NSW 2004**

Health Area and Statistical Local Area	No.	%	Health Area and Statistical Local Area	No.	%
<b>Sydney South West</b>			<b>Hunter and New England</b>		
Ashfield	493	2.6	Armidale Dumaresq: City	225	2.3
Bankstown	2638	14.0	Armidale Dumaresq: Balance	72	0.7
Burwood	316	1.7	Barraba	21	0.2
Camden	810	4.3	Bingara	19	0.2
Campbelltown	2109	11.2	Cessnock	620	6.4
Canterbury	2154	11.4	Dungog	83	0.9
Concord	395	2.1	Glen Innes	79	0.8
Drummoyne	495	2.6	Gloucester	38	0.4
Fairfield	2616	13.9	Greater Taree	493	5.1
Leichhardt	998	5.3	Great Lakes	335	3.4
Liverpool	2830	15.0	Gunnedah	124	1.3
Marrickville	1063	5.6	Guyra	59	0.6
South Sydney (SSW)	437	2.3	Inverell: Pt A	62	0.6
Strathfield	295	1.6	Inverell: Pt B	134	1.4
Sydney (SSW)	89	0.5	Lake Macquarie	2092	21.5
Wingecarribee	457	2.4	Maitland	840	8.6
Wollondilly	637	3.4	Manilla	37	0.4
<b>TOTAL</b>	<b>18832</b>	<b>100.0</b>	Merriwa	28	0.3
<b>South Eastern Sydney &amp; Illawarra</b>			Moree Plains	203	2.1
Botany	482	3.4	Murrurundi	34	0.3
Hurstville	977	6.8	Muswellbrook	243	2.5
Kiama	181	1.3	Narrabri	160	1.6
Kogarah	682	4.8	Newcastle: Inner	32	0.3
Randwick	1515	10.6	Newcastle: Remainder	1687	17.3
Rockdale	1299	9.1	Nundle	15	0.2
Shellharbour	840	5.9	Parry: Pt A	50	0.5
Shoalhaven: Pt A	399	2.8	Parry: Pt B	129	1.3
Shoalhaven: Pt B	567	4.0	Port Stephens	626	6.4
South Sydney (SESAHS)	501	3.5	Quirindi	68	0.7
Sutherland Shire: East	1270	8.9	Scone	142	1.5
Sutherland Shire: West	1462	10.2	Severn	33	0.3
Sydney (Inner)	96	0.7	Singleton	316	3.2
Sydney (SESI)	109	0.8	Tamworth	491	5.0
Waverley	890	6.2	Tenterfield	26	0.3
Wollongong	2338	16.4	Uralla	61	0.6
Woollahra	687	4.8	Walcha	37	0.4
Other	1	0.0	Yallaroi	28	0.3
<b>TOTAL</b>	<b>14296</b>	<b>100.0</b>	<b>TOTAL</b>	<b>9742</b>	<b>100.0</b>
<b>Sydney West</b>			<b>North Coast</b>		
Auburn	1113	7.0	Ballina	383	8.1
Baulkham Hills	1984	12.4	Bellingen	109	2.3
Blacktown: North	1548	9.7	Byron	283	6.0
Blacktown: South-East	1380	8.6	Coff's Harbour: Pt A	506	10.7
Blacktown: South-West	1651	10.3	Coff's Harbour: Pt B	137	2.9
Blue Mountains	872	5.5	Copmanhurst	39	0.8
Greater Lithgow	221	1.4	Grafton	196	4.1
Hawkesbury	902	5.6	Hastings: Pt A	412	8.7
Holroyd	1438	9.0	Hastings: Pt B	298	6.3
Parramatta	2209	13.8	Kempsey	381	8.1
Penrith	2664	16.7	Kyogle	71	1.5
<b>TOTAL</b>	<b>15982</b>	<b>100.0</b>	Lismore: Pt A	362	7.7
<b>Northern Sydney &amp; Central Coast</b>			Lismore: Pt B	155	3.3
Gosford	1920	14.5	Maclean	153	3.2
Hornsby	1778	13.5	Nambucca	177	3.7
Hunter's Hill	147	1.1	Pristine Waters: Nymboida	71	1.5
Ku-ring-gai	857	6.5	Pristine Waters: Ulmarra	65	1.4
Lane Cove	383	2.9	Richmond River: Casino	124	2.6
Manly	551	4.2	Richmond River: Balance	113	2.4
Mosman	378	2.9	Tweed: Pt A	402	8.5
North Sydney	780	5.9	Tweed: Pt B	290	6.1
Pittwater	715	5.4	<b>TOTAL</b>	<b>4727</b>	<b>100.0</b>
Ryde	1215	9.2			
Warringah	1830	13.9			
Willoughby	888	6.7			
Wyong	1768	13.4			
<b>TOTAL</b>	<b>13210</b>	<b>100.0</b>			

**TABLE 33 (continued)**
**LIVEBIRTHS BY HEALTH AREA AND STATISTICAL LOCAL AREA OF RESIDENCE, NSW 2004**

Health Area and Statistical Local Area	No.	%	Health Area and Statistical Local Area	No.	%
<b>Greater Southern</b>			<b>Greater Western</b>		
Albury	13	0.3	Bathurst	372	9.8
Bega Valley	261	6.8	Blayney: Pt A	75	2.0
Berrigan	26	0.7	Blayney: Pt B	16	0.4
Bland	86	2.2	Bogan	56	1.5
Bombala	31	0.8	Bourke	53	1.4
Boorowa	18	0.5	Brewarrina	33	0.9
Carrathool	66	1.7	Broken Hill	223	5.9
Conargo	5	0.1	Cabonne: Pt A	16	0.4
Coolamon	33	0.9	Cabonne: Pt B	10	0.3
Cooma-Monaro	106	2.7	Cabonne: Pt C	100	2.6
Cootamundra	97	2.5	Central Darling	23	0.6
Crookwell	25	0.6	Cobar	82	2.2
Culcairn	22	0.6	Coolah	44	1.2
Deniliquin	87	2.3	Coonabarabran	78	2.1
Eurobodalla	317	8.2	Coonamble	65	1.7
Goulburn	209	5.4	Cowra	149	3.9
Griffith	379	9.8	Dubbo: Pt A	542	14.3
Gundagai	50	1.3	Dubbo: Pt B	77	2.0
Gunning	10	0.3	Evans: Pt A	13	0.3
Harden	43	1.1	Evans: Pt B	32	0.8
Hay	42	1.1	Forbes	103	2.7
Holbrook	9	0.2	Gilgandra	49	1.3
Jerilderie	13	0.3	Lachlan	97	2.6
Junee	63	1.6	Mudgee	197	5.2
Leeton	186	4.8	Narromine	113	3.0
Lockhart	30	0.8	Oberon	105	2.8
Mulwaree	79	2.0	Orange	552	14.5
Murray	7	0.2	Parkes	192	5.0
Murrumbidgee	27	0.7	Rylstone	32	0.8
Narrandera	77	2.0	Walgett	113	3.0
Queanbeyan	179	4.6	Warren	39	1.0
Snowy River	75	1.9	Weddin	33	0.9
Tallaganda	6	0.2	Wellington	103	2.7
Temora	65	1.7	Wentworth	6	0.2
Tumbarumba	26	0.7	Unincorporated Far West	8	0.2
Tumut	137	3.5	Other	1	0.0
Urana	8	0.2	TOTAL	3802	100.0
Wagga Wagga: Pt A	675	17.5	<b>Other-Not stated</b>	609	100.0
Wagga Wagga: Pt B	87	2.3			
Windouran	10	0.3	<b>TOTAL NSW</b>	85061	100.0
Yarrowlumla: Part A	36	0.9			
Yass	5	0.1			
Young	128	3.3			
Other	7	0.2			
TOTAL	3861	100.0			

Source: NSW Midwives Data Collection (HOIST). Centre for Epidemiology and Research, NSW Department of Health.