



Overview of Birth Data (2008-2010)

All Births		Singletons	
Year	Births	Year	Births
2008	119827	2008	115551
2009	115849	2009	111602
2010	113331	2010	109131
Total	349007	Total	336284

Admission Status	No.	(%)
Not Born in Hospital	3338	1.0
Born in Hospital	332946	99.0
Non-Birthing Hospital	1639	0.5
Birthing Hospital	331294	99.5
Level I	66251	20.0
Level II	78741	23.8
Level III	186302	56.2

Certificate of Need Review (CON) Neonatal Intensive Care Services/Beds Meeting (4-21-2013) Prepared by S. Grady, MSU Geography; Source: Vital Statistics Birth Records.

Neonates weighting < 1,500 grams at birth and/or < 32 weeks gestation (Singeltons)

Admission Level 2 Hospitals <u>without</u> "Special Newborn Care Services"				Retention Level 2 Hospitals <u>without</u> "Special Newborn Care Services"			
VLBW-				VLBW-			
Hospital	VPREME	BIRTHS	RATE*	Hospital	VPREME	BIRTHS	RATE*
1	11	2697	4.08	1	8	2626	3.05
2	29	3172	9.14	2	17	3102	5.48
3	8	1697	4.71	3	6	1668	3.60
4	17	4387	3.88	4	5	4301	1.16
5	32	2908	11.00	5	32	2908	11.00
6	191	3884	49.18	6	182	3842	47.37
7	28	4707	5.95	7	15	4673	3.21
8	11	3444	3.19	8	8	3405	2.35
9	3	1454	2.06	9	3	1437	2.09
10	5	3076	1.63	10	4	3046	1.31
11	12	1142	10.51	11	3	1113	2.70
		347	32568			283	32121
Per 1,000 live births				Per 1,000 live births			

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Neonates weighting < 1,500 grams at birth and/or < 32 weeks gestation (Singeltons)

Admission Level 2 Hospitals <u>with</u> "Special Newborn Care Services"				Retention Level 2 Hospitals <u>with</u> "Special Newborn Care Services"			
VLBW-				VLBW-			
HOSPITAL	VPREME	BIRTHS	RATE*	HOSPITAL	VPREME	BIRTHS	RATE*
1	19	3162	6.01	1	13	3092	4.20
2	8	2025	3.95	2	3	2008	1.49
3	45	7412	6.07	3	28	7353	3.81
4	35	5253	6.66	4	19	5200	3.65
5	16	4046	3.95	5	9	4016	2.24
6	5	1942	2.57	6	5	1940	2.58
7	2	1069	1.87	7	1	1035	0.97
8	57	4343	13.12	8	57	4339	13.14
9	20	2801	7.14	9	16	2789	5.74
10	16	5158	3.10	10	9	5121	1.76
11	24	4941	4.86	11	9	4895	1.84
		247	42152			169	41788
Per 1,000 live births				Per 1,000 live births			

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Neonates weighting between 1,500 and 2,499 grams at birth and/or 32 to 36 weeks gestation (Singeltons)

Admission Level 2 Hospitals <u>without</u> "Special Newborn Care Services"				Retention Level 2 Hospitals <u>without</u> "Special Newborn Care Services"					
LBW-				LBW-					
HOSPITAL	PREME	BIRTHS	RATE*	HOSPITAL	PREME	BIRTHS	RATE*		
1	37	2686	13.78	1	26	2618	9.93		
2	68	3143	21.64	2	58	3085	18.80		
3	35	1689	20.72	3	29	1662	17.45		
4	91	4370	20.82	4	70	4296	16.29		
5	69	2876	23.99	5	69	2876	23.99		
6	79	3693	21.39	6	73	3660	19.95		
7	104	4679	22.23	7	98	4658	21.04		
8	67	3433	19.52	8	58	3397	17.07		
9	15	1451	10.34	9	11	1434	7.67		
10	40	3071	13.03	10	35	3042	11.51		
11	14	1130	12.39	11	13	1110	11.71		
		619	32221	19.21			540	31838	16.96
Per 1,000 live births				Per 1,000 live births					

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Neonates weighting between 1,500 and 2,499 grams at birth and/or 32 to 36 weeks gestation (Singeltons)

Admission Level 2 Hospitals <u>with</u> "Special Newborn Care Services"				Retention Level 2 Hospitals <u>with</u> "Special Newborn Care Services"					
LBW-				LBW-					
HOSPITAL	PREME	BIRTHS	RATE*	HOSPITAL	PREME	BIRTHS	RATE*		
1	48	3143	15.27	1	38	3079	12.34		
2	33	2017	16.36	2	31	2005	15.46		
3	163	7367	22.13	3	152	7325	20.75		
4	117	5218	22.42	4	105	5181	20.27		
5	97	4030	24.07	5	94	4007	23.46		
6	24	1937	12.39	6	24	1935	12.40		
7	19	1067	17.81	7	15	1034	14.51		
8	67	4286	15.63	8	67	4282	15.65		
9	78	2781	28.05	9	76	2773	27.41		
10	114	5142	22.17	10	104	5112	20.34		
11	90	4917	18.30	11	82	4886	16.78		
		850	41905	20.28			788	41619	18.93
Per 1,000 live births				Per 1,000 live births					

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Neonates weighting < 1,500 grams at birth and/or < 32 weeks gestation (Singeltons)

Admission All Level 2 Hospitals "Special Newborn Care Services"				Retention All Level 2 Hospitals "Special Newborn Care Services"			
VLBW-				VLBW-			
HOSPITAL	VPREME	BIRTHS	RATE*	HOSPITAL	VPREME	BIRTHS	RATE*
1	30	5859	5.12	1	21	5718	3.67
2	37	5197	7.12	2	20	5110	3.91
3	53	9109	5.82	3	34	9021	3.77
4	52	9640	5.39	4	24	9501	2.53
5	48	6954	6.90	5	41	6924	5.92
6	196	5826	33.64	6	187	5782	32.34
7	30	5776	5.19	7	16	5708	2.80
8	68	7787	8.73	8	65	7744	8.39
9	23	4255	5.41	9	19	4226	4.50
10	21	8234	2.55	10	13	8167	1.59
11	36	6083	5.92	11	12	6008	2.00
594 74720 7.95				452 73909 6.12			
Per 1,000 live births				Per 1,000 live births			

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Neonates weighting between 1,500 and 2,499 grams at birth and/or 32 to 36 weeks gestation (Singeltons)

Admission All Level 2 Hospitals "Special Newborn Care Services"				Retention All Level 2 Hospitals "Special Newborn Care Services"			
LBW-				LBW-			
HOSPITAL	PREME	BIRTHS	RATE*	HOSPITAL	PREME	BIRTHS	RATE*
1	85	5829	14.58	1	64	5697	11.23
2	101	5160	19.57	2	89	5090	17.49
3	198	9056	21.86	3	181	8987	20.14
4	208	9588	21.69	4	175	9477	18.47
5	166	6906	24.04	5	163	6883	23.68
6	103	5630	18.29	6	97	5595	17.34
7	123	5746	21.41	7	113	5692	19.85
8	134	7719	17.36	8	125	7679	16.28
9	93	4232	21.98	9	87	4207	20.68
10	154	8213	18.75	10	139	8154	17.05
11	104	6047	17.20	11	95	5996	15.84
1469 74126 19.82				1328 73457 18.08			
Per 1,000 live births				Per 1,000 live births			

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Conclusions

- 2008-2010 (n=331294) births in birthing hospitals
- Level II (23.8%) births in birthing hospitals
 - Level II w/ “Special Newborn Care Services” triage more VLBW-VPREME babies than Level II w/o (-31.6 vs. -18.4%) (n=74 vs. 68)
 - Level II w/o “Special Newborn Care Services” triage more LBW-PREME babies than Level II w/o (-12.7% vs. -7.3) (n= 79 vs. 62)

 - Level II -- **VLBW-VPRETERM** babies (n=452) 6.1% retained
 - Level II -- **LBW-PRETERM** babies (n=1328) 18.1% retained

 - Monitor the triage of **VLBW-VPRETERM** infants from Level II hospitals

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