

1998 KANSAS ADEQUACY OF PRENATAL CARE UTILIZATION (APNCU) INDEX

I. Month prenatal care began (Adequacy of Initiation of Prenatal Care)

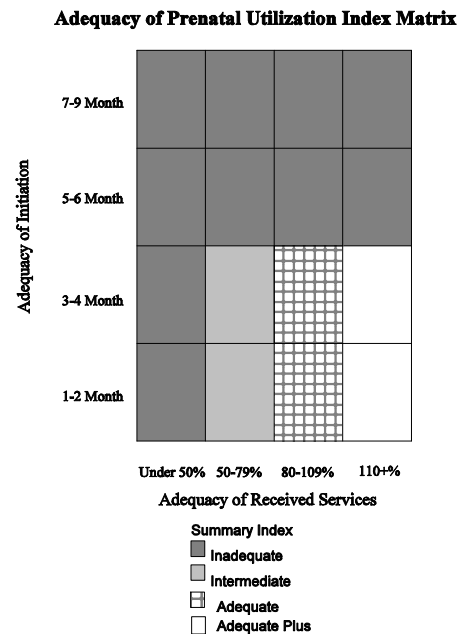
- Adequate Plus: 1st or 2nd month
- Adequate: 3rd or 4th month
- Intermediate: 5th or 6th month
- Inadequate: 7th month or later, or no prenatal care

II. Proportion of the number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG) received from the time prenatal care began until delivery (Adequacy of Received Services)

- Adequate Plus: 110% or more
- Adequate: 80% - 109%
- Intermediate: 50% - 79%
- Inadequate: less than 50%

III. Summary Adequacy of Prenatal Care Utilization Index

- Adequate Plus: Prenatal care begun by the 4th month and 110% or more of recommended visits received
- Adequate: Prenatal care begun by the 4th month and 80% - 109% of recommended visits received
- Intermediate: Prenatal care begun by the 4th month and 50% - 79% of recommended visits received
- Inadequate: Prenatal care begun after the 4th month or less than 50% of recommended visits received



NOTE: The APNCU Index requires the use of the following data elements reported on the live birth certificate: number of prenatal care visits, month prenatal care began, and gestational length of pregnancy.

APNCU Reference: Kotelchuck M. An evaluation of the Kessner Adequacy of Prenatal Care Index and a proposed Adequacy of Prenatal Care Utilization Index. *American Journal of Public Health*, 1994;84:1414-1420.

Source: Children & Families Section, Bureau for Children, Youth, and Families, Kansas Department of Health & Environment, 785-296-1306

Office of Health Care Information, Center for Health & Environmental Statistics, Kansas Department of Health & Environment, 785-296-5644

This product can be found on the Worldwide Web at: <http://www.kdhe.state.ks.us/hci/>

Adequacy of Prenatal Utilization Index Kansas Residents*, 1998

Adequacy of Initiation	7-9 Month	340	153	259	322
	5-6 Month	91	330	679	834
	3-4 Month	195	1,275	5,439	2,477
	1-2 Month	220	2,648	16,536	6,195
		Under 50%	50-79%	80-109%	110+%
		Adequacy of Received Services			

Summary Index

- Inadequate
- Intermediate
- Adequate
- Adequate Plus

*Includes only the 37,993 Kansas resident live births for which number of prenatal visits and month care began were reported on the the birth certificate.

**Adequacy of Prenatal Care Utilization(APNCU) Index
By County of Residence
Kansas, 1998**

County of Residence	Live Births*	APNCU Category								Not Stated
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
TOTAL.....	37,993	8,672	22.8	21,975	57.9	3,923	10.3	3,423	9.0	379
ALLEN.....	153	49	32.0	78	51.0	15	9.8	11	7.2	-
ANDERSON.....	115	24	20.9	69	60.0	7	6.1	15	13.0	-
ATCHISON.....	225	56	24.9	124	55.1	22	9.8	23	10.2	2
BARBER.....	51	11	21.6	29	56.8	8	15.7	3	5.9	-
BARTON.....	378	85	22.5	210	55.6	36	9.5	47	12.4	4
BOURBON.....	188	83	44.2	69	36.7	22	11.7	14	7.4	-
BROWN.....	130	52	40.0	65	50.0	3	2.3	10	7.7	7
BUTLER.....	780	121	15.5	536	68.7	71	9.1	52	6.7	10
CHASE.....	53	13	24.5	22	41.5	11	20.8	7	13.2	1
CHAUTAUQUA.....	40	6	15.0	21	52.5	5	12.5	8	20.0	1
CHEROKEE.....	273	51	18.7	167	61.2	22	8.0	33	12.1	3
CHEYENNE.....	30	5	16.7	17	56.7	7	23.3	1	3.3	2
CLARK.....	21	5	23.8	12	57.1	3	14.3	1	4.8	1
CLAY.....	104	31	29.8	52	50.0	13	12.5	8	7.7	-
CLOUD.....	108	23	21.3	64	59.3	13	12.0	8	7.4	-
COFFEY.....	88	23	26.2	50	56.8	12	13.6	3	3.4	-
COMANCHE.....	26	4	15.4	15	57.7	6	23.1	1	3.8	-
COWLEY.....	417	127	30.5	217	52.0	50	12.0	23	5.5	1
CRAWFORD.....	550	180	32.8	279	50.7	43	7.8	48	8.7	4
DECATUR.....	30	11	36.7	17	56.7	1	3.3	1	3.3	1
DICKINSON.....	206	59	28.7	116	56.3	18	8.7	13	6.3	3
DONIPHAN.....	115	26	22.6	71	61.7	10	8.7	8	7.0	1
DOUGLAS.....	1,164	329	28.3	584	50.2	132	11.3	119	10.2	3
EDWARDS.....	50	9	18.0	30	60.0	6	12.0	5	10.0	-
ELK.....	29	9	31.0	12	41.4	5	17.3	3	10.3	-
ELLIS.....	310	107	34.5	158	51.0	32	10.3	13	4.2	1
ELLSWORTH.....	60	12	20.0	40	66.7	6	10.0	2	3.3	-
FINNEY.....	876	171	19.5	305	34.8	153	17.5	247	28.2	38
FORD.....	655	124	18.9	243	37.1	130	19.9	158	24.1	1
FRANKLIN.....	353	94	26.6	198	56.1	23	6.5	38	10.8	3
GEARY.....	632	137	21.7	307	48.6	90	14.2	98	15.5	3
GOVE.....	37	7	18.9	20	54.1	8	21.6	2	5.4	-
GRAHAM.....	26	6	23.1	15	57.7	3	11.5	2	7.7	-
GRANT.....	156	32	20.5	76	48.7	28	18.0	20	12.8	9
GRAY.....	108	20	18.5	51	47.2	19	17.6	18	16.7	2
GREELEY.....	23	7	30.4	11	47.8	2	8.7	3	13.1	-
GREENWOOD.....	79	12	15.2	45	57.0	12	15.2	10	12.7	4
HAMILTON.....	37	11	29.7	17	46.0	1	2.7	8	21.6	1
HARPER.....	69	5	7.3	48	69.6	9	13.0	7	10.1	-
HARVEY.....	406	121	29.8	222	54.7	33	8.1	30	7.4	3

**Adequacy of Prenatal Care Utilization(APNCU) Index
By County of Residence
Kansas, 1998**

County of Residence	Live Births*	APNCU Category								Not Stated
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
HASKELL.....	73	8	11.0	35	47.9	8	11.0	22	30.1	2
HODGEMAN.....	16	3	18.8	7	43.8	3	18.7	3	18.7	-
JACKSON.....	155	48	31.0	79	51.0	20	12.9	8	5.1	2
JEFFERSON.....	216	62	28.7	118	54.7	23	10.6	13	6.0	2
JEWELL.....	31	7	22.6	17	54.8	4	12.9	3	9.7	-
JOHNSON.....	6,375	1653	25.9	4219	66.2	315	4.9	188	3.0	40
KEARNY.....	60	12	20.0	26	43.3	12	20.0	10	16.7	3
KINGMAN.....	88	9	10.2	55	62.5	13	14.8	11	12.5	1
KIOWA.....	40	4	10.0	21	52.5	6	15.0	9	22.5	-
LABETTE.....	274	88	32.1	145	52.9	15	5.5	26	9.5	2
LANE.....	28	9	32.1	9	32.1	5	17.9	5	17.9	-
LEAVENWORTH...	839	257	30.6	428	51.0	97	11.6	57	6.8	3
LINCOLN.....	25	3	12.0	20	80.0	1	4.0	1	4.0	-
LINN.....	100	40	40.0	44	44.0	10	10.0	6	6.0	-
LOGAN.....	30	6	20.0	18	60.0	5	16.7	1	3.3	1
LYON.....	440	79	17.9	204	46.4	99	22.5	58	13.2	23
MARION.....	149	53	35.6	76	51.0	10	6.7	10	6.7	2
MARSHALL.....	118	30	25.4	59	50.0	24	20.4	5	4.2	1
MCPHERSON.....	371	78	21.0	215	58.0	53	14.3	25	6.7	1
MEADE.....	60	8	13.3	36	60.0	10	16.7	6	10.0	4
MIAMI.....	365	126	34.5	202	55.4	27	7.4	10	2.7	1
MITCHELL.....	64	10	15.6	41	64.1	4	6.2	9	14.1	-
MONTGOMERY...	453	152	33.6	217	47.9	50	11.0	34	7.5	7
MORRIS.....	68	18	26.5	29	42.6	16	23.5	5	7.4	1
MORTON.....	41	6	14.6	22	53.7	4	9.8	9	21.9	4
NEMAHA.....	166	38	22.9	86	51.8	33	19.9	9	5.4	3
NEOSHO.....	196	57	29.1	106	54.1	20	10.2	13	6.6	1
NESS.....	38	11	28.9	19	50.0	6	15.8	2	5.3	1
NORTON.....	49	12	24.5	21	42.8	14	28.6	2	4.1	1
OSAGE.....	191	53	27.7	109	57.1	20	10.5	9	4.7	1
OSBORNE.....	35	13	37.2	18	51.4	2	5.7	2	5.7	1
OTTAWA.....	61	15	24.6	38	62.3	5	8.2	3	4.9	-
PAWNEE.....	74	21	28.4	39	52.7	9	12.2	5	6.7	1
PHILLIPS.....	52	15	28.9	28	53.8	6	11.5	3	5.8	4
POTTAWATOMIE..	266	60	22.5	142	53.4	47	17.7	17	6.4	-
PRATT.....	109	16	14.7	65	59.6	13	11.9	15	13.8	-
RAWLINS.....	29	5	17.2	14	48.3	6	20.7	4	13.8	-
RENO.....	834	142	17.0	455	54.6	134	16.1	103	12.3	4
REPUBLIC.....	66	18	27.3	33	50.0	7	10.6	8	12.1	2
RICE.....	129	18	14.0	69	53.5	27	20.9	15	11.6	-

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Kansas, 1998**

County of Residence	Live Births*	APNCU Category								Not Stated
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
RILEY.....	903	238	26.3	472	52.3	146	16.2	47	5.2	1
ROOKS.....	60	12	20.0	33	55.0	11	18.3	4	6.7	-
RUSH.....	30	9	30.0	17	56.7	3	10.0	1	3.3	-
RUSSELL.....	89	25	28.1	47	52.8	12	13.5	5	5.6	-
SALINE.....	808	165	20.4	524	64.9	75	9.3	44	5.4	5
SCOTT.....	53	17	32.1	27	50.9	3	5.7	6	11.3	2
SEDGWICK.....	7,393	899	12.2	5110	69.1	744	10.1	640	8.6	75
SEWARD.....	464	37	8.0	229	49.4	54	11.6	144	31.0	22
SHAWNEE.....	2,384	858	36.0	1187	49.8	173	7.3	166	6.9	5
SHERIDAN.....	21	5	23.8	11	52.4	5	23.8	-	-	-
SHERMAN.....	100	15	15.0	58	58.0	19	19.0	8	8.0	-
SMITH.....	37	14	37.8	20	54.1	2	5.4	1	2.7	1
STAFFORD.....	71	21	29.6	31	43.6	8	11.3	11	15.5	-
STANTON.....	38	5	13.2	18	47.4	11	28.9	4	10.5	-
STEVENS.....	76	8	10.5	45	59.2	12	15.8	11	14.5	4
SUMNER.....	340	38	11.2	251	73.8	29	8.5	22	6.5	1
THOMAS.....	105	21	20.0	64	61.0	14	13.3	6	5.7	-
TREGO.....	29	7	24.1	19	65.5	2	6.9	1	3.5	-
WABAUNSEE.....	68	12	17.7	40	58.8	12	17.6	4	5.9	-
WALLACE.....	24	8	33.4	14	58.3	2	8.3	-	-	-
WASHINGTON.....	64	17	26.6	36	56.2	5	7.8	6	9.4	4
WICHITA.....	37	6	16.2	22	59.5	5	13.5	4	10.8	2
WILSON.....	130	33	25.4	73	56.2	9	6.9	15	11.5	2
WOODSON.....	42	13	31.0	25	59.5	3	7.1	1	2.4	-
WYANDOTTE.....	2,702	668	24.7	1336	49.4	291	10.8	407	15.1	27

*Includes only Kansas resident live births for which number of prenatal visits and month care began were reported on the birth certificate. Residence data.

Source: Center for Health & Environmental Statistics
Kansas Department of Health and Environment

Number and Percent of Live Births by Race and Hispanic Origin
By Adequacy of Prenatal Care Utilization(APNCU) Index
Kansas, 1998

Race and Hispanic Origin	Live Births*	APNCU Category								Not Stated
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total.....	37,993	8,672	22.8	21,975	57.9	3,923	10.3	3,423	9.0	379
White.....	33,852	7,766	22.9	19,856	58.7	3,444	10.2	2,786	8.2	340
Black.....	2,750	651	23.7	1,325	48.2	315	11.4	459	16.7	21
American Indian.....	387	86	22.2	183	47.3	44	11.4	74	19.1	4
Asian/Pacific Islander.....	916	146	16.0	571	62.3	110	12.0	89	9.7	9
Other NonWhite.....	28	7	25.0	11	39.3	4	14.3	6	21.4	1
Not Stated.....	60	16	n/a	29	n/a	6	n/a	9	n/a	4
Hispanic**.....	3,759	588	15.6	1,793	47.7	548	14.6	830	22.1	114

n/a Not applicable

*Includes only Kansas resident live births for which number of prenatal visits and month care began were reported on the birth certificate.

**Hispanic origin can be of any race
Residence data.

Source: Center for Health & Environmental Statistics
Kansas Department of Health and Environment

Number and Percent of Live Births by Birth Weight
By Adequacy of Prenatal Care Utilization(APNCU) Index
Kansas, 1998

Birth Weight (Grams)	Live Births*	APNCU Category								Not Stated
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total.....	37,993	8,672	22.8	21,975	57.9	3,923	10.3	3,423	9.0	379
Under 2,500(Low).....	2,629	1,454	55.3	751	28.6	142	5.4	282	10.7	54
2,500-4,499(Normal)..	34,729	7,106	20.5	20,807	59.9	3,717	10.7	3,099	8.9	319
4,500 and Over(High)..	626	108	17.2	416	66.5	64	10.2	38	6.1	6
Not Stated.....	9	4	n/a	1	n/a	-	n/a	4	n/a	-

n/a Not applicable

*Includes only Kansas resident live births for which number of prenatal visits and month care began were reported on the birth certificate.
Residence data.

Source: Center for Health & Environmental Statistics
Kansas Department of Health and Environment