

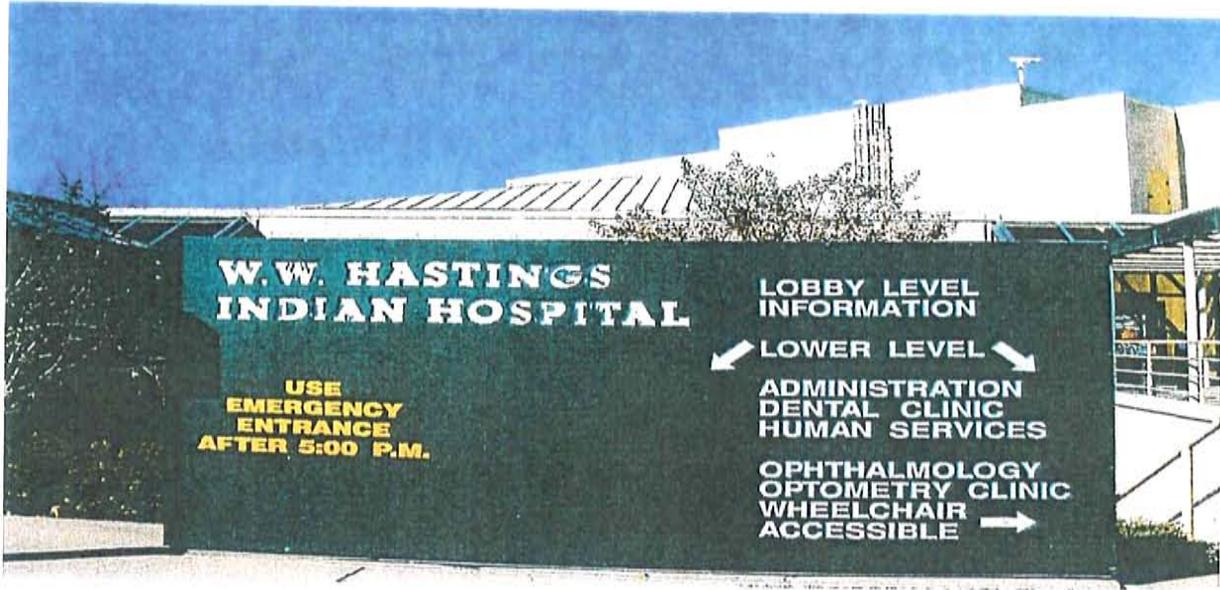
W.W. Hastings Indian Hospital

Tahlequah, Oklahoma

Outpatient Service Area

W. W. Hastings Indian Hospital

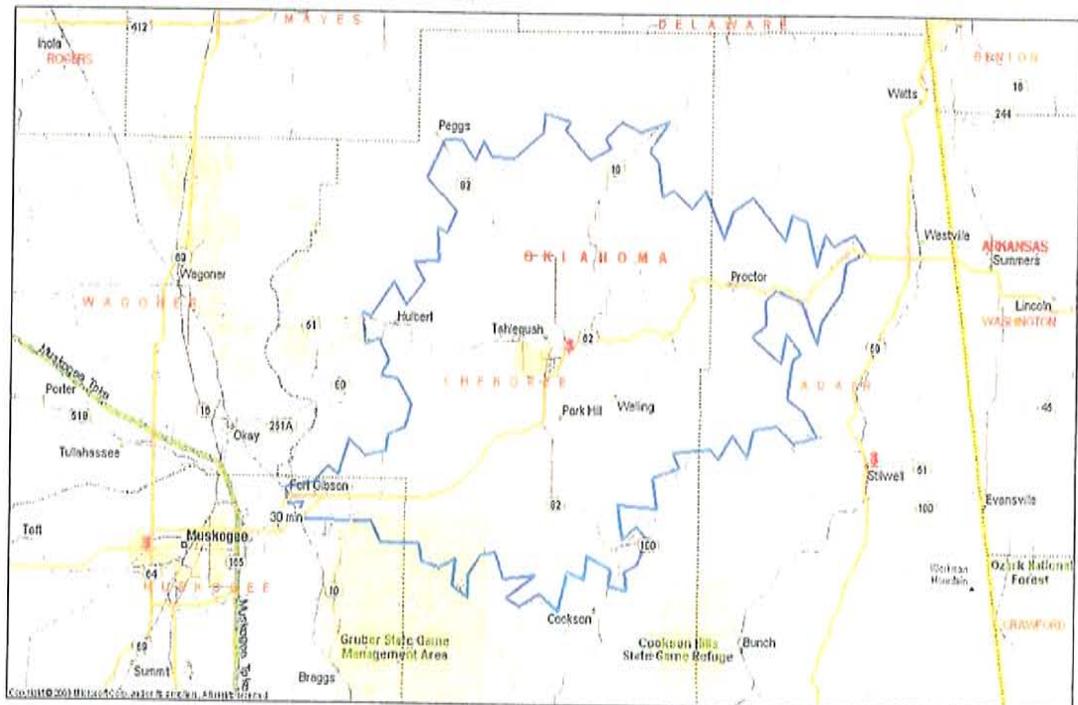
Service Area Profile



A. Location

Service Area – 30 minute drive time access

- | Service Area Communities |
|--------------------------|
| • Proctor |
| • Lost City |
| • Moodys |
| • Park Hill |
| • Peggs |
| • Sequoyah BIA |
| • Tahlequah |
| • Welling |



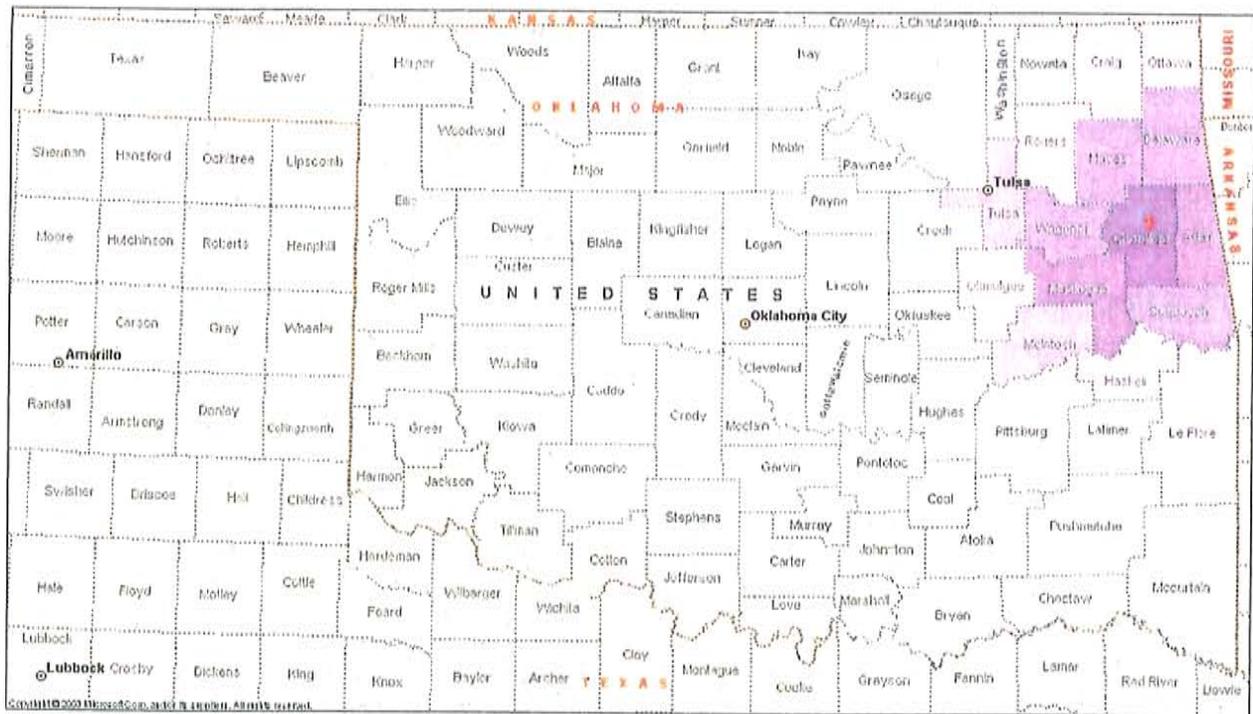
B. Access

C. Demographics

**W. W. HASTINGS INDIAN HOSPITAL
2004 USER POPULATION ANALYSIS**

County	Cherokee	Creek	All Other	2004 Total	2000 Census	User/ Census	2014 HSP Projection	User/ Proj	Census/ Proj
Adair	11,473	104	596	12,173	8,938	136.19%	11,753	103.57%	76.05%
Cherokee	13,963	570	1,667	16,200	13,787	117.50%	17,054	94.99%	80.84%
McIntosh	1,224	1,857	702	3,783	3,152	120.02%	4,577	82.65%	68.87%
Muskogee	8,249	1,623	1,463	11,335	10,331	109.72%	15,671	72.33%	65.92%
Sequoyah	9,966	182	918	11,066	7,654	144.58%	9,664	114.51%	79.20%
	44,875	4,336	5,346	54,557	43,862	124.38%	58,719	92.91%	74.70%

PCPVs by Community of Residence by County to the W.W. Hastings Indian Hospital



D. Topography and Climate:

Cherokee County is part of the Ozark Forest, also known as the Boston Mountains, to the south and the Ozark Highlands to the North. The major rivers that drain the area are the Arkansas and the Illinois Rivers

Winds from the southeast are quite dominant, with northerly winds during the winter months. The average annual temperature is 15.6 degrees Celsius. For the most part, moderate weather conditions prevail; however the temperatures do range from 33.3 degrees Celsius in the Summer to -2.8 degrees Celsius and below in the winter. The average annual precipitation is 1219.2 mm per year.

Thunderstorms occur on about 50 days each year, predominantly in the spring and summer. Tornadoes are not uncommon in this area, especially during spring and early summer months. Typically, there are about two events each year of hail exceeding one inch in diameter.

E. Housing and Public Facilities

The City of Tahlequah's total population is 14,458 people. The Indian population is 9,379 people. Housing is reasonably abundant in the area. Most Cherokees within the Tahlequah Service Area live in single family homes either owned by the family or rented. The condition of Indian housing varies considerably, from old and in various states of disrepair and dilapidation, to relatively new brick homes.

Tahlequah has a post office, numerous grocery stores, shopping centers, restaurants and other public facilities such as a golf course, public parks and a city lake. There are local police and fire departments.

Oklahoma is located in the so-called Bible belt of the United States and nearly every community has an abundance of churches and other places of worship.

Tulsa, with a total population of 393,049, is 109 kilometers from Tahlequah. Tulsa has commercial airports.

F. Utilities

The primary source for potable water is from the public waters system. Many houses use wells as their primary source of water. The majority of homes in the rural area are supplied by either wells or rural water systems.

Natural gas for the Tahlequah Service Area is abundant, and generally supplied by the Oklahoma Natural Gas Company. Many areas use bottled gas (propane). With the abundance of timber in the Area, wood is also a major source of heating fuel.

Electricity is supplied by the Lake Region Electric Cooperative.

Telephone services are widespread and are supplied by the Southwestern Bell Telephone Company. The non-availability of telephone service is not a common problem in this service area. However, many Indian families cannot afford to pay for telephone services, which can be quite expensive in rural areas.

Television is widespread and with the rapid spread of cable and satellite systems in the, almost every small town has access to cable or satellite television. Otherwise, reception is limited to Tulsa stations and public television.

G. Education

Public Schools are located in every small city or town in the Service Area for grades 1-12. In addition, there is one Indian boarding school, Sequoyah High School, in the Service Area.

Northeastern State University is also located in Tahlequah. This institution offers both BA and BS degrees in a variety of fields, as well as Masters Degrees in English, Education and Health and Kinesiology. The University's beginning dates back to 1846 when the Cherokee National Council authorized the creation of a National Male Seminary and a national Female Seminary. In 1909, the Oklahoma State Legislature authorized the purchase of the building, land, and equipment of the Cherokee Female Seminary to form the Northeastern State Normal School at Tahlequah.

H. Economy

Agriculture and retail-related industries are two major employers in the Service Area. Other employment is provided by Health Services and Educational Services. People living in the Western part of the Service Area may commute to Muskogee or Tulsa for work.

Many Indians are employed in local services and trades, governmental services. However, the majority derive their incomes through part-time employment at relatively low-paying jobs.

I. Social and Political

The Cherokee Tribe of Oklahoma is the predominant tribe in the area. The Cherokee Indians are of the Iroquoian language family. At the time of European contact, the Cherokees numbered about twenty-two thousand and controlled more than forty thousand square miles of land. Their homeland consisted of parts of eight present states: the Carolinas, the Virginias, Kentucky, Tennessee, Georgia, and Alabama. By 1819, the Cherokee territory included only the adjacent mountainous areas of North Carolina, Tennessee, Georgia, and Alabama. In December 1835, the Treaty of New Echota ceded the last remaining territory east of the Mississippi. In exchange, the Cherokees received equivalent holdings in what is now Northeastern Oklahoma.

The Cherokee Nation is the second largest Indian tribe in the United States. There are more than 200,000 tribal members. Almost 70,000 of these Cherokees reside in the 7,000 square mile area

of the Cherokee Nation which includes all of eight counties and portions of six in Northeastern Oklahoma.

The Cherokee Nation has a tripartite democratic form of government which includes judicial, executive and legislative branches. A revised constitution of the Cherokee Nation was ratified by the Cherokee people in June of 1976, and approved by the Commissioner of Indian Affairs on September 5, 1975.

Executive power is vested in the Principal Chief, the legislative power in the Tribal Council, and the judicial power in the Cherokee Nation Judicial Appeals Tribunal. The position of Deputy Principal Chief is also part of the executive branch. The Deputy Principal Chief also presides over the Tribal Council during their monthly meetings. All are elected to four-year terms by the registered tribal voters. The judicial branch of tribal government includes the District Court and Judicial Appeals Tribunal, which is comparable to the U.S. Supreme Court. The tribunal consists of three members who are appointed by the Principal Chief and confirmed by the council. It is the highest court of the Cherokee Nation and oversees internal legal disputes and the District Court. The District Judge and an Associate District Judge preside over the tribe's District Court and hear all cases brought before it under jurisdiction of the Cherokee Nation Judicial Code.

The Cherokee Nation authorized the negotiation of a tribal self-governance agreement for direct funding from the U.S. Congress on February 10, 1990. The agreement authorizes the tribe to plan, conduct, consolidate and administer programs and receive direct funding to deliver services to tribal members.

Current Services:

- Dental
- Family Practice
- General Surgery
- Gerontology
- Gynecology
- Internal Medicine
- Nephrology (Part-time)
- Neurology (Part-time)
- Obstetrics
- Ophthalmology
- Oral Surgery (Part-time)
- Orthopedics
- Pain control (Part-time)
- Endodontics
- Otolaryngology (Part-time)
- Pediatric Cardiology (Part-time)
- Pediatric Neurology (Part-time)
- Pediatrics
- Radiologist
- Urology (Tentative)

- Urgent Care
- Emergency
- Nutrition
- Optometry
- Podiatry
- Audiology
- Psychiatry
- Social Services
- Mental Health
- Alcohol & Substance Abuse
- Laboratory
- Mobile Screening Mammography (Part-time)
- CT (Computed Tomography)
- Physical Therapy
- Speech Therapy
- Retinal Telemedicine
- Health Education

Building Area Summary...	<u>Template Or Discipline</u>	<u>Net Square Meters</u>	<u>Conversion Factor</u>	<u>Department Gross Square Meters</u>
<u>Ambulatory</u>				
Audiology	AU2	64.30	N/A	81.00
Dental Care	DC4	661.20	N/A	983.00
Eye Care	EC3	226.60	N/A	325.00
Primary Care	PC3	337.80	N/A	493.00
Primary Care	PC3	337.80	N/A	493.00
Primary Care	PC4	499.40	N/A	734.00
Primary Care	PC2	327.20	N/A	487.00
Specialty Care	SC	43.00	1.40	60.20
<u>Ancillary</u>				
Diagnostic Imaging	DI1	89.50	N/A	126.00
Physical Therapy	PT3	377.50	N/A	482.00
<u>FacilitySupport</u>				
Clinical Engineering	CE1	39.10	N/A	42.00
Facility Management	FM2	146.20	N/A	164.00
<u>Inpatient</u>				
Sub-Acute	SA1	330.90	N/A	491.00
<u>SupportServices</u>				
Education & Group Consultation	EGC1	64.20	1.10	74.00
Education & Group Consultation	EGC	18.00	1.10	19.80
Employee Facilities	EF	153.60	1.20	184.32
Housekeeping & Linen	HL2	46.90	1.10	56.00
Housekeeping & Linen	HL	16.00	1.10	17.60
Medical Supply	MS2	98.60	N/A	122.00
Property & Supply	PS4	548.40	N/A	621.00
Public Facilities	PF	130.00	1.20	156.00
Department Gross Square Meters				6211.92
Building Circulation & Envelope (.20)				1242.38
Floor Gross Square Meters				7454.30
Major Mechanical Space (.12)				894.52
Building Gross Square Meters				8348.82

Program Justification Document

Project Name: Tahlequah - Outpatient - Community: Tahlequah , State: Oklahoma

Project Number: OK05TA005C7

Workload Summary...

	<u>Year</u>	<u>Total Workload</u>	<u>Contracted Due To Acuity</u>	<u>Threshold</u>	<u>Unmet Need</u>	<u>Cross over</u>	<u>HSP Facility Workload</u>	<u>Projected Estimated Facility Workload</u>
<u>Acute Care</u>								
Medical Bed days	2001	1461	438	1023				
	2015	1779	534	1245				
Pediatric Bed days	2001	999	140	859				
	2015	1218	171	1047				
Surgical Bed days	2001	973	350	623				
	2015	1196	431	765				
<u>Audiology</u>								
Audiology Visits	2001	1755			1755		1755	
	2015	2148			2148		2148	
<u>Clinical Engineering</u>								
Clinical Engineering	2001	1347			1347		1347	
	2015	1647			1647		1647	
<u>Dental Care</u>								
Dental Service Minutes	2001	1497865			1497865		1497865	
	2015	1832170			1832170		1832170	
<u>Diagnostic Imaging</u>								
CT/MRI Exams	2001	109	109					
	2015	133	133					
Fluoroscopy Exams	2001	382		382				
	2015	467		467				
General Radiography	2001	4583			4583		4583	
	2015	5606			5606		5606	
MAMMOGRAPHY	2001	2010			2010		2010	
	2015	2461			2461		2461	
Ultrasound Exams	2001	764		764				
	2015	934		934				
<u>Education & Group Consultation</u>								
# of staff	2015	145			145		145	
<u>Emergency</u>								
Emergency Room Visits	2001	6863		6863				
	2015	8401		8401				
<u>Eye Care</u>								
Optometrist Visits	2001	5005			5005		5005	
	2015	6124			6124		6124	
<u>Facility Management</u>								
Service index	2001	44			44		44	
	2015	53			53		53	
<u>Housekeeping & Linen</u>								
Lbs of Linen	2001	16060			16060		16060	

Workload Summary...

	<u>Year</u>	<u>Total Workload</u>	<u>Contracted Due To Acuity Threshold</u>		<u>Unmet Need</u>	<u>Cross over</u>	<u>HSP Facility Workload</u>	<u>Project Estimated Facility Workload</u>
	2015	19643			19643		19643	
<u>Intensive Care</u>								
Intensive Care bed days	2001	290	133	157				
	2015	353	162	191				
<u>Laboratory</u>								
Chem/Hema/Immun/Urin	2001	47477	2849		44628		44628	
	2015	58073	3484		54589		54589	
Histo/Cytology billable	2001	109	109					
	2015	133	133					
Microbiology billable tests	2001	9753	3901		5852		5852	
	2015	11930	4772		7158		7158	
Transfusion/BB billable	2001	873	17	856				
	2015	1068	21	1047				
<u>Mental Health</u>								
Mental Health Visits	2001	2644			2644		2644	
	2015	3228			3228		3228	
<u>Pharmacy</u>								
Inpatient Pharmacy	2001							
	2015							
Outpatient Pharmacy	2001	743906			743906		743906	
	2015	909893			909893		909893	
<u>Physical Therapy</u>								
Inpatient Physical Therapy	2001							
	2015							
OUTPATIENT PHYSICAL	2001	6916			6916		6916	
	2015	8455			8455		8455	
<u>Primary Care</u>								
Primary Care Provider	2001	54559			54559		54559	
	2015	66733			66733		66733	
<u>Property & Supply</u>								
Storage Index	2001	13913			13913		13913	
	2015	17017			17017		17017	
<u>Psychiatric Nursing</u>								
Psych Bed days	2001	250	55	195				
	2015	303	67	236				
<u>Public Health Nursing</u>								
Public Health Nursing	2001	4829			4829		4829	
	2015	5911			5911		5911	
<u>Respiratory Therapy</u>								

Program Justification Document

Project Name: Tahlequah - Outpatient - Community: Tahlequah , State: Oklahoma

Project Number: OK05TA005C7

Workload Summary...

	<u>Year</u>	<u>Total Workload</u>	<u>Contracted Due To Acuity Threshold</u>		<u>Unmet Need</u>	<u>Cross over</u>	<u>HSP Facility Workload</u>	<u>Projected Estimated Facility Workload</u>
Respiratory Therapy work	2001	41492	41492					
	2015	50753	50753					
<u>Specialty Care</u>								
Specialist Visits	2001	2663			2663		2663	
	2015	3264			3264		3264	
<u>Sub-Acute</u>								
SubAcute Bed days	2001	1258			1258		1258	
	2015	1544			1544		1544	
<u>Surgery</u>								
Inpatient Episodes	2001	409	115	294				
	2015	505	141	364				
Outpatient Episodes	2001	479	134	345				
	2015	586	164	422				

Program Justification Document

Project Name: Tahlequah - Outpatient - Community: Tahlequah , State: Oklahoma

Project Number: OK05TA005C7

Current / Projected User Population... Health Care Service Area - (PC)

(Acute Care, Audiology, Dental Care, Diagnostic Imaging, Emergency, Eye Care, Intensive Care, Labor & Delivery/Nursery, Mental Health, Physical Therapy, Primary Care, Psychiatric Nursing, Public Health Nursing, Specialty Care, Sub-Acute, Surgery)

TAHLEQUAH - BRIGGS (CHEROKEE) M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001										1	1	2
prj) 2015										1	1	2
Female												
cur) 2001			1							2		3
prj) 2015			1							2		3

TAHLEQUAH - COOKSON (CHEROKEE) M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	4	12	8	17	21	16	19	13	18	6	12	146
prj) 2015	5	15	10	21	26	20	23	16	22	7	15	180
Female												
cur) 2001	2	11	19	15	12	14	19	33	20	14	15	174
prj) 2015	2	13	23	18	15	17	23	40	24	17	18	210

TAHLEQUAH - HULBERT (CHEROKEE) M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	20	81	85	94	100	67	112	105	82	65	62	873
prj) 2015	24	99	104	115	122	82	137	129	100	80	76	1068
Female												
cur) 2001	17	65	85	91	88	62	117	125	85	65	68	868
prj) 2015	21	80	104	111	108	76	143	153	104	80	83	1063

TAHLEQUAH - LOST CITY (CHEROKEE) M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001									1			1
prj) 2015									1			1
Female												
cur) 2001												
prj) 2015												

TAHLEQUAH - MOODYS (CHEROKEE) M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	1	4	9	9	9	9	10	15	11	2	1	80
prj) 2015	1	5	11	11	11	11	12	18	13	2	1	96
Female												
cur) 2001	1	15	10	7	12	7	16	13	3	3	4	88
prj) 2015	1	18	12	9	15	9	20	16	4	4	5	113

Program Justification Document

Project Name: Tahlequah - Outpatient - Community: Tahlequah, State: Oklahoma

Project Number: OK05TA005C7

Current / Projected User Population... Health Care Service Area - (PC)

(Acute Care, Audiology, Dental Care, Diagnostic Imaging, Emergency, Eye Care, Intensive Care, Labor & Delivery/Nursery, Mental Health, Physical Therapy, Primary Care, Psychiatric Nursing, Public Health Nursing, Specialty Care, Sub-Acute, Surgery)

TAHLEQUAH - PARK HILL (CHEROKEE)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	15	62	65	71	61	43	75	62	60	33	47	594
prj) 2015	18	76	80	87	75	53	92	76	73	40	58	728
Female												
cur) 2001	18	66	69	58	61	61	89	100	66	51	42	681
prj) 2015	22	81	84	71	75	75	109	122	81	62	51	833

TAHLEQUAH - PEGGS (CHEROKEE)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	5	21	17	16	10	7	24	19	11	9	9	148
prj) 2015	6	26	21	20	12	9	29	23	13	11	11	181
Female												
cur) 2001	2	14	8	11	11	14	25	21	10	7	8	131
prj) 2015	2	17	10	13	13	17	31	26	12	9	10	160

TAHLEQUAH - PROCTOR (ADAIR)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	1	8	14	8	17	10	17	13	15	12	12	127
prj) 2015	1	9	16	9	20	12	20	15	18	14	14	148
Female												
cur) 2001	5	8	13	15	13	13	13	17	9	15	13	134
prj) 2015	6	9	15	18	15	15	15	20	11	18	15	157

TAHLEQUAH - SEQUOYAH BIA (CHEROKEE)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001			1	1			2		1			5
prj) 2015			1	1			2		1			5
Female												
cur) 2001			1	2	1			2	3	2	2	13
prj) 2015			1	2	1			2	4	2	2	14

TAHLEQUAH - TAHLEQUAH (CHEROKEE)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	108	506	545	556	583	580	719	618	476	252	285	5228
prj) 2015	132	620	667	681	714	710	880	757	583	309	349	6402
Female												
cur) 2001	106	459	555	529	615	626	801	736	555	330	457	5769
prj) 2015	130	562	680	648	753	766	981	901	680	404	560	7065

Program Justification Document

Project Name: Tahlequah - Outpatient - Community: Tahlequah , State: Oklahoma

Project Number: OK05TA005C7

Current / Projected User Population... Health Care Service Area - (PC)

(Acute Care, Audiology, Dental Care, Diagnostic Imaging, Emergency, Eye Care, Intensive Care, Labor & Delivery/Nursery, Mental Health, Physical Therapy, Primary Care, Psychiatric Nursing, Public Health Nursing, Specialty Care, Sub-Acute, Surgery)

TAHLEQUAH - WELLING (CHEROKEE)

M/S: cur) 100.0% prj) 100.0%

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	4	29	30	33	30	25	57	61	29	11	22	331
prj) 2015	5	36	37	40	37	31	70	75	36	13	27	407
Female												
cur) 2001	10	28	39	50	28	28	50	54	31	25	25	368
prj) 2015	12	34	48	61	34	34	61	66	38	31	31	450

Totals...

Male	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	Total
cur) 2001	158	723	774	805	831	757	1035	906	704	391	451	7535
prj) 2015	192	886	947	985	1017	928	1265	1109	860	477	552	9218
Female												
cur) 2001	161	666	800	778	841	825	1130	1101	782	514	634	8232
prj) 2015	196	814	978	951	1029	1009	1383	1346	958	629	775	10068
Combined												
cur) 2001	319	1389	1574	1583	1672	1582	2165	2007	1486	905	1085	15718
prj) 2015	388	1700	1925	1936	2046	1937	2648	2455	1818	1106	1327	19286

Average Age for the Service Unit: 28.7