

User Count Subgroup

Normal User Population

User Population:

Identified as AI/AN, had one visit in the last 3 years to Region/Area, lives within a Purchased and Referred Care Delivery Area (PRCDA)/Contract Health Service Delivery Area (CHSDA) of the visited Region/Area

Regional unduplication

	FY 2017 Indian Registrants	FY 2017 Active Indian Registrants	FY 2017 Indian User Population Estimates
All Areas	2,895,571	1,636,559	1,638,686
Alaska	246,230	166,146	166,146
Albuquerque	176,001	83,858	83,858
Bemidji	186,268	110,940	111,090
Billings	137,652	72,131	72,131
California	176,720	88,887	88,887
Great Plains	232,813	129,015	129,197
Nashville	87,465	56,984	56,984
Navajo	397,157	241,885	241,885
Oklahoma	659,707	370,307	370,307
Phoenix	320,987	176,776	176,776
Portland	217,899	111,941	113,736
Tucson	56,672	27,689	27,689

National unduplication

	FY 2017 Indian Registrants	FY 2017 Active Indian Registrants	FY 2017 Indian User Population Estimates
All Areas	2,559,384	1,607,862	1,607,862
Alaska	235,737	166,024	166,024
Albuquerque	131,023	82,672	82,672
Bemidji	180,022	111,002	111,002
Billings	113,544	69,437	69,437
California	158,416	88,337	88,337
Great Plains	208,083	126,048	126,048
Nashville	84,123	56,962	56,962
Navajo	331,106	227,926	227,926
Oklahoma	627,674	368,751	368,751
Phoenix	253,664	172,224	172,224
Portland	194,221	111,792	111,792
Tucson	41,771	26,687	26,687

Normal User Pop definitions:

Regional (Official) Un-dup

- Lives in a (non-urban)CHSDA in the Region/Area indicated
- Had a visit in the Region/Area of residence
- A person can be counted once per Region/Area
- Identified as AI/AN

National Unduplication

- Lives in a (non-urban)CHSDA in the Region/Area indicated
- Had a visit anywhere
- A person can be counted *only* once
- Identified as AI/AN

User Population – Option 1 Non-CHSDA Users

Non-PRCDA/CHSDA user:

Individual living in a community that does not belong to a PRCDA/CHSDA or an existing Service Unit within the IHS system

Regional unduplication

	FY 2017	FY 2017	FY 2017	Hypothetical New
	Active	Indian User	Non	FY 2017
	Indian	Population	CHSDA	Indian User
	Registrants	Estimates	User (1)	Population
			Estimate	Estimates
All Areas	1,636,559	1,636,741	49,278	1,686,019
Alaska	166,146	166,146	376	166,522
Albuquerque	83,858	83,858	959	84,817
Bemidji	110,940	110,940	8,916	119,856
Billings	72,131	72,131	3,550	75,681
California	88,887	88,887	1,886	90,773
Great Plains	129,015	129,197	6,918	136,115
Nashville	56,984	56,984	3,706	60,690
Navajo	241,885	241,885	-	241,885
Oklahoma	370,307	370,307	16,170	386,477
Phoenix	176,776	176,776	2,580	179,356
Portland	111,941	111,941	4,217	116,158
Tucson	27,689	27,689	-	27,689

National unduplication

	FY 2017	FY 2017	FY 2017	Hypothetical New
	Active	Indian User	Non CHSDA	FY 2017
	Indian	Population	User (1)	Indian User
	Registrants	Estimates	Estimates	Population
				Estimates
All Areas	1,607,862	1,607,862	57,893	1,665,755
Alaska	166,024	166,024	407	166,431
Albuquerque	82,672	82,672	1,707	84,379
Bemidji	111,002	111,002	9,682	120,684
Billings	69,437	69,437	4,097	73,534
California	88,337	88,337	2,342	90,679
Great Plains	126,048	126,048	7,764	133,812
Nashville	56,962	56,962	6,486	63,448
Navajo	227,926	227,926	-	227,926
Oklahoma	368,751	368,751	16,769	385,520
Phoenix	172,224	172,224	3,771	175,995
Portland	111,792	111,792	4,868	116,660
Tucson	26,687	26,687	-	26,687

Option 1 Definitions

Regional (Official) Un-dup

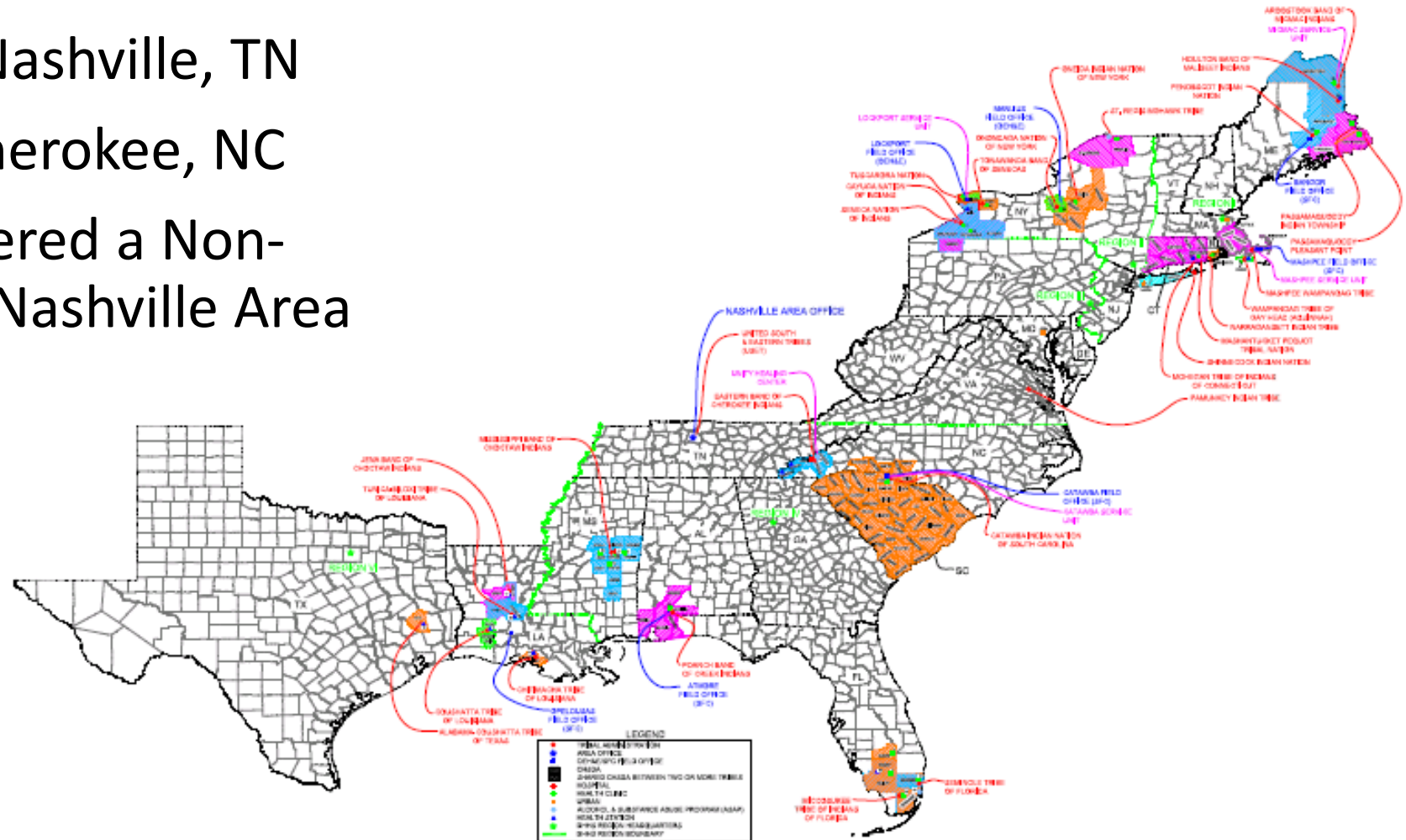
- -Lives in a (non-urban) part of the Region/Area but in a community that is not part of a CHSDA (Note all Navajo and Tucson communities are in CHSDAs)
- -Had a visit in the Region/Area of residence
- A person can be counted once per Region/Area

National Unduplication

- Lives in a (non-urban) part of the Region/Area but in a community that is not part of a CHSDA (Note all Navajo and Tucson communities are in CHSDAs)
- Had a visit anywhere
- A person can be counted *only* once

Non-CHSDA Users – Option 1

- Patient lives in Nashville, TN
- Visits clinic in Cherokee, NC
- They are considered a Non-CHSDA user for Nashville Area



Definitions

Unduplication:

- Act of counting one person one time
- Regional unduplication = user counted one time for Area
- National unduplication = user counted one time nationwide

Fractionalization:

- Service Unit providing service gets credit for patient receiving care
- Individual can be parsed between multiple Service Units
 - Options for fractionalization:
 - Inpatient services = Outpatient services
 - Inpatient services > Outpatient services

User Population – Option 2 Non-CHSDA Users

Regional unduplication

Table 1 E
IHS User Population Estimates by Area and Service Unit - FY 2017

	FY 2017	FY 2017	FY 2017	Hypothetical New FY 2017
	Active Indian Registrants	Indian User Population Estimates	Non CHSDA User (2) Estimate	Indian User Population Estimates
All Areas	1,636,559	1,638,686	126,786	1,765,472
Alaska	166,146	166,146	2,903	169,049
Albuquerque	83,858	83,858	14,008	97,866
Bemidji	110,940	111,090	2,223	113,313
Billings	72,131	72,131	4,486	76,617
California	88,887	88,887	3,794	92,681
Great Plains	129,015	129,197	6,035	135,232
Nashville	56,984	56,984	1,621	58,605
Navajo	241,885	241,885	34,438	276,323
Oklahoma	370,307	370,307	6,975	377,282
Phoenix	176,776	176,776	39,861	216,637
Portland	111,941	113,736	5,885	119,621
Tucson	27,689	27,689	4,557	32,246

National unduplication

- Not Applicable because users across Areas would be counted in their prospective Areas so non-CHSDA users would not apply

Non-PRCDA/CHSDA Users

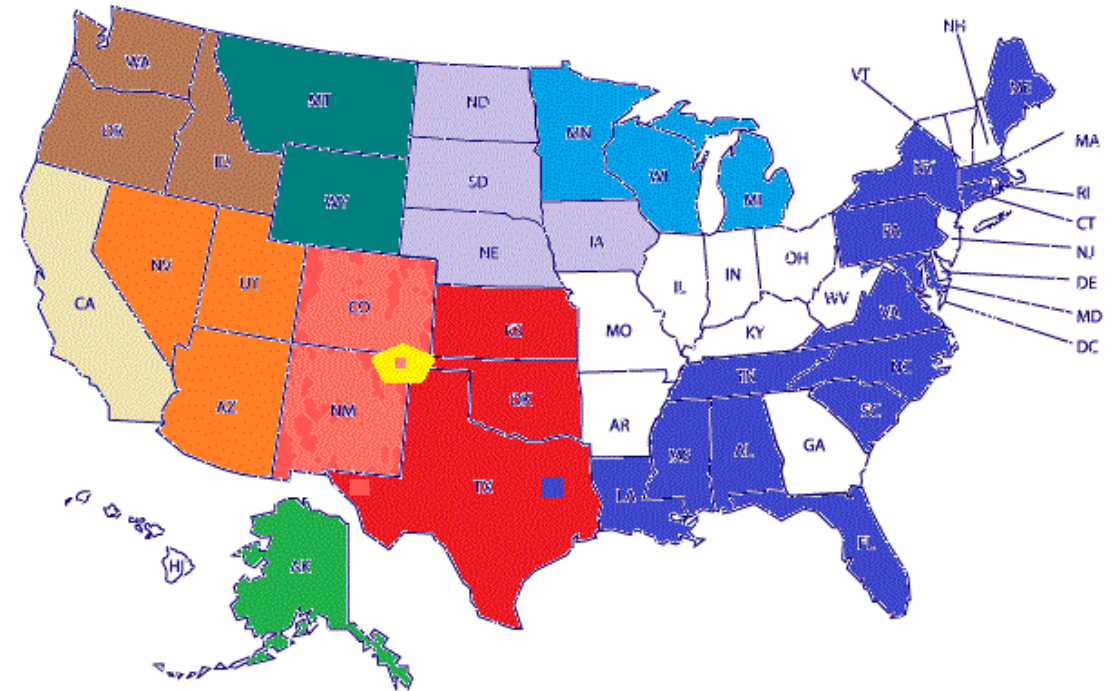
Option 2:

- Patients that are eligible for direct services, that live in a community assigned to a Service Unit PRCDA/CHSDA that receives care in another Area Service Unit (cross Area visitation)

Non-CHSDA Users – Option 2

- Patient lives in Tucson Area
- Visits clinic in Navajo
- They are considered a Non-CHSDA user for Navajo Area

- Patient lives in Navajo Area
- Visits clinic California
- They are considered a Non-CHSDA user for California Area



Fractionalized User Population

Regional unduplication

IHS AREA	Fractionalized User Count
ALASKA	168,037
ALBUQUERQUE	84,976
BEMIDJI	112,133
BILLINGS	71,982
CALIFORNIA	88,441
GREAT PLAINS	131,056
NASHVILLE	57,300
NAVAJO	244,071
OKLAHOMA	377,280
PHOENIX	178,908
PORTLAND	110,896
TUCSON	27,843
ALL AREAS	1,652,923

National unduplication

Area	Users
ALASKA	168,226
ALBUQUERQUE	81,832
BEMIDJI	111,834
BILLINGS	70,477
CALIFORNIA	89,791
GREAT PLAINS	129,438
NASHVILLE	57,004
NAVAJO	235,412
OKLAHOMA	377,594
PHOENIX	168,810
PORTLAND	108,855
TUCSON	27,109
ALL AREAS	1,626,381

Fractionalized User Population + Non-PRCDA/CHSDA counts

Regional unduplication

Table 1H. FY 2017 User Population with Regional unduplication with fractionalization of users and non CHSDA users

IHS AREA	Fractionalized User Count	Fractionalized Non CHSDA/PRCDA users	Total Users
ALASKA	168,037	1,213	169,250
ALBUQUERQUE	84,976	5,082	90,058
BEMIDJI	112,133	8,877	121,010
BILLINGS	71,982	1,632	73,614
CALIFORNIA	88,441	3,949	92,390
GREAT PLAINS	131,056	5,711	136,767
NASHVILLE	57,300	4,169	61,469
NAVAJO	244,071	10,793	254,864
OKLAHOMA	377,280	22,964	400,244
PHOENIX	178,908	10,384	189,292
PORTLAND	110,896	3,086	113,982
TUCSON	27,843	1,891	29,734
ALL AREAS	1,652,923	79,751	1,732,674

National unduplication

IHS AREA	Fractionalized Users	Fractionalized Non CHSDA Users	All Users Total
ALASKA	168,226	521	168,747
ALBUQUERQUE	81,832	480	82,312
BEMIDJI	111,834	8,021	119,855
BILLINGS	70,477	1,031	71,508
CALIFORNIA	89,791	1,418	91,209
GREAT PLAINS	129,438	4,190	133,628
NASHVILLE	57,004	3,612	60,616
NAVAJO	235,412	574	235,986
OKLAHOMA	377,594	19,530	397,124
PHOENIX	168,810	525	169,335
PORTLAND	108,855	2,178	111,033
TUCSON	27,109	225	27,333
ALL AREAS	1,626,381	42,306	1,668,687

Fractionalized Site Counts (Nationally Unduplicated)

- CHSDA Visit:
 - Workload reportable visit for patient living in a community of residence that is associated with a Service Unit
 - County Exceptions: Alaska Unk, Chaves (NM), Clark (WA), Colfax (NM), Columbia (OR), Cowlitz (WA), Genesee (NY), Houghton (MI), Island (WA), Kittitas (WA), Marshall (MN), Nevada Unk, Newaygo (MI), Oklahoma Unk, San Juan (WA), Tarrant (TX), Utah (UT) and Wahkiakum (WA)
- Non-CHSDA Visit:
 - Workload reportable visit where community of residence is blank or invalid
 - Community is NOT associated with as specific Service Unit
 - County not one of the exceptions listed above

Fractionalized Site Counts

$$\text{CHSDA Fractional Count} = \frac{\left(\frac{\text{Visited Facility}}{\text{Facility Visit Count}} \right)}{\text{CHSDA Visit Count}}$$

$$\text{Non-CHSDA Fractional Count} = \frac{\left(\frac{\text{Visited Facility}}{\text{Facility Visit Count}} \right)}{\text{Non-CHSDA Visit Count}}$$

Calculation of fractions examples

CHSDA USERS		Facility A	Facility B
	Person 1	3 CHSDA visits = .5 person	3 CHSDA visits = .5 person
	Person 2	0 CHSDA visits	3 CHSDA visits = 1.0 person
	Facility CHSDA totals	0.5	1.5
Non-CHSDA Users = those users NO CHSDA visits		Facility A	Facility B
	Person 3	4 non-CHSDA visits = .4 person	6 non-CHSDA visits = .6 person
	Person 4	0 non-CHSDA visits	3 non-CHSDA visits = 1.0 person
	Facility non- CHSDA totals	0.4	1.6

Comparison - # Difference

Area	Normal User Population			Normal User Population + Non-CHSDA Option 1			Normal User Population + Non-CHSDA Option 2			Fractionalized User Population			Fractionalized User Population + Fractionalized Non-CHSDA		
	1a-Reg	1b-Nat	Difference	1c-Reg	1d-Nat	Difference	1e-Reg	1f-Reg	1g-Nat	Difference	1h-Reg	1i-Nat	Difference		
All Areas	1,638,686	1,607,862	-30,846	1,686,019	1,665,755	-20,264	1,765,472	1,652,923	1,626,381	26,542	1,732,674	1,668,687	63,987		
ALASKA	166,146	166,024	-122	166,522	166,431	-91	169,049	168,037	168,226	-189	169,250	168,747	503		
ALBUQUERQUE	83,858	82,672	-1,186	84,817	84,379	-438	97,866	84,976	81,832	3,144	90,058	82,312	7,746		
BEMIDJI	111,090	111,002	-88	119,856	120,684	828	113,313	112,133	111,834	299	121,010	119,855	1,155		
BILLINGS	72,131	69,437	-2,694	75,681	73,534	-2,147	76,617	71,982	70,477	1,505	73,614	71,508	2,106		
CALIFORNIA	88,887	88,337	-550	90,773	90,679	-94	92,681	88,441	89,791	-1,350	92,390	91,209	1,181		
GREAT PLAINS	129,197	126,048	-3,149	136,115	133,812	-2,303	135,232	131,056	129,438	1,618	136,767	133,628	3,139		
NASHVILLE	56,984	56,962	-22	60,690	63,448	2,758	58,605	57,300	57,004	296	61,469	60,616	853		
NAVAJO	241,885	227,926	-13,981	241,885	227,926	-13,959	276,323	244,071	235,412	8,659	254,864	235,986	18,878		
OKLAHOMA	370,307	368,751	-1,556	386,477	385,520	-957	377,282	377,280	377,594	-314	400,244	397,124	3,120		
PHOENIX	176,776	172,224	-4,552	179,356	175,995	-3,361	216,637	178,908	168,810	10,098	189,292	169,335	19,957		
PORTLAND	113,736	111,792	-1,944	116,158	116,660	502	119,621	110,896	108,855	2,041	113,982	111,033	2,949		
TUCSON	27,689	26,687	-1,002	27,689	26,687	-1,002	32,246	27,843	27,109	734	29,734	27,333	2,401		

Comparison - % of Total

Area	Normal User Population % of Total		Normal User Population + Non-CHSDA Option 1 % of Total		Normal User Population + Non-CHSDA Option 2 % of Total	Fractionalized User Population % of Total		Fractionalized User Population + Fractionalized Non-CHSDA % of Total	
	1a-Reg	1b-Nat	1c-Reg	1d-Nat	1e-Reg	1f-Reg	1g-Nat	1h-Reg	1i-Nat
All Areas									
ALASKA	10%	10%	10%	10%	10%	10%	10%	10%	10%
ALBUQUERQUE	5%	5%	5%	5%	6%	5%	5%	5%	5%
BEMIDJI	7%	7%	7%	7%	6%	7%	7%	7%	7%
BILLINGS	4%	4%	4%	4%	4%	4%	4%	4%	4%
CALIFORNIA	5%	5%	5%	5%	5%	5%	6%	5%	5%
GREAT PLAINS	8%	8%	8%	8%	8%	8%	8%	8%	8%
NASHVILLE	3%	4%	4%	4%	3%	3%	4%	4%	4%
NAVAJO	15%	14%	14%	14%	16%	15%	14%	15%	14%
OKLAHOMA	23%	23%	23%	23%	21%	23%	23%	23%	24%
PHOENIX	11%	11%	11%	11%	12%	11%	10%	11%	10%
PORTLAND	7%	7%	7%	7%	7%	7%	7%	7%	7%
TUCSON	2%	2%	2%	2%	2%	2%	2%	2%	2%