Calculation of ACSA population:

R x Zip Code Pop. - ACSA in-state population

- Admissions from zip code to ACSA
- R = hospitals Admissions from a zip code area to any Wisconsin Hospital
- Zip Code population = MCD-Zip conversion factor for each MCD-Zip Code fragment (proportion of a given MCD served by a given zip code area times the MCD population estimate)

The in-state ACSA populations are adjusted to incorporate out-of-state population increase due to care provided residents of other states:

out-of-state = out-of-state x in-state population discharges population to the ACSA in-state discharges to the ACSA

Age cohort distribution are based on a determination of which counties had at least 50% of their geographic area within either primary or secondary service area of the ACSA. The proportional representation of each cohort as projected in the county or counties is applied to the total ACSA population.

- (13)-(17) 1990 population projection based on calculation of ACSA in-state population + in-migration adjustment x county age cohort distribution
- (18) One half the population 15-44 to represent the population of childbearing age
- (19) Projected Patient Days for patients under 15 years of age (20e) Sum of Projected Patient Days for
- madical/surgical patients 15 years of age and over = (20a) + (20b) + (20c) + (20d)(21) Projected Patient days for
- obstetric patients (22) ICU/CCU patient days as a percentage of total nonobstatric patient days for the ACSA (data from the Wisconsin Annual Survey of Hospitals)
- (23)(22) x (19)
- (24) (22) x (20a)
- (25) (19) + 365 (# of days in year) (26) (20e) + 365
- (27) (21) + 365
- (28) (23) + 365
- (29) (24) + 365
- (30) (23) + (24)

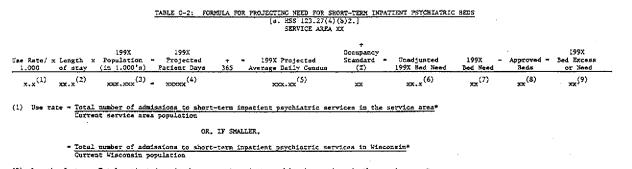
(31)

(25) + Occupancy Standard in Appendix D for the service bad complement in ACSA. For services of less than 10 beds, the medical/surgical occupancy standard applies.

- (32) (26) * Occupancy Standard in Appendix D for the service bed complement in ACSA. (33) (27) + Occupancy Standard in Appendix D for the service bed complement in ACSA (30) + Occupancy Standard in Appendix D for the service
 - bad complement in ACSA. If a separate pediatric incensive care unit exists in the service area, bed need is calculated for 28 and 29 using the occupancy standard for the outire ICU/CCU bed complement
- (35) (31) rounded to the nearest whole number
- (36) (32) minus (34) rounded to nearest whole number
- (37) (33) rounded to the nearest whole number
- (38) (34) rounded to the nearest whole number
- (39) (35) + (36) + (37) + (38)
- (40)-(43) Service bed complement by ACSA from the Annual Survey of Rospitals adjusted for beds closed, deactivated or decertified under s. 123.30 (44) (40) + (41) + (42) + (43)
- (45) (40) - (35) (46) (41) - (36) (47) (42) - (37) (48) (43) - (38) (49) (44) - (39)

(34)

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(2) Length of stay - Total patient days in abort-term inpatient psychiatric services in the service area* Total number of admissions to short-term inpatient psychiatric services in the service area*

OR, IF SMALLER,

- Total patient days in short-term impatient psychiatric services in Wisconsin* Total number of admissions to short-term impatient psychiatric services in Wisconsin*
- (3) Projected population in 199X for the service area, based upon information provided by the University of Wisconsin Applied Population Laboratory and the State Department of Administration.
- (4) (1) x (2) x (3)

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- (5) (4) + 365 (number of days in the year)
- (6) (5) + Occupancy standard in Appendix D for the bed complement in the service area.
- (7) (6) rounded to the nearest whole number

(8) Total number of approved short-term impatient psychiatric beds in the service area.

(9) (7) = (8)

*Information on patient days and admissions from the Annual Survey of Hospitals.

1,000			199X Projected tient Days		199X Projected rage Daily Census	Occupancy Standard = (7)	Unadjusted 199X Sed Need	199X - Bed Need	Approved - Beds	199X Bed Exces or Need	
x.x ⁽¹	.) _{××.×} (2)	жж.жж ⁽³⁾ - х	0000x ⁽⁴⁾		xxx.xx ⁽⁵⁾	xx	××.x ⁽⁶⁾	xx ⁽⁷⁾	×× ⁽⁸⁾	,xx ⁽⁹⁾	
										•	
(1) Use				1 dependent	y services in the	service area*					
	Curren	t service area pop	pulation								÷
		OR	R, IF SMALLER,								1
		t Wisconsin popula	ition			Vei VSta	ng the poleson di ndard average use				
(2) Len	Curren gth of stay - j	t Wisconsin popula Total patient days	ition	dependency	services in the se Apatient chemical	vei Sta rvice area*	ndard average use	rate			
(3) Pro	Curren gth of stay - j jected popúlat	t Wisconsin popula Total patient days Total number of ad	ition in chemical missions to s	dependency hort-term 1	services in the se	vei / Sta rvice area* dependency se	ndard average use	vice area*	ed Population		y and
(3) Pro the	Curren gth of stay - j jected popúlat	t Wisconsin popula Total patient days Total number of ad ion in 199% for ch	ition in chemical missions to s	dependency hort-term 1	services in the se Apationt chemical	vei / Sta rvice area* dependency se	ndard average use	vice area*	ed Population		y and
(3) Pro the (4) (1)	Curren gth of stay - ; jected popúlat State Departm x (2) x (3)	t Wisconsin popula Total patient days Total number of ad ion in 199% for ch	in chomical inissions to s no service area tion.	dependency hort-term 1	services in the se Apationt chemical	vei / Sta rvice area* dependency se	ndard average use	vice area*	ed Population		y and
 (3) Protect (4) (1) (5) (4) 	Curren gth of stay = j jected popúlac State Departm x (2) x (3) + 365 (number	t Wisconsin popula Total patient days Total number of ad ion in 199% for ch ent of Administrat of days in the ye	ition in chemical d missions to s as service are tion.	dependency horr-term i a, based up	services in the se Apationt chemical	vided by the	ndard average use	vice area*	ed Population		y and
 (3) Protect (4) (1) (5) (4) (6) (5) 	Curren gth of stay - ; jected popúlat State Departm x (2) x (3) + 365 (number + Occupancy s	t Wisconsin popula Total patient days Total number of ad ion in 199% for ch ent of Administrat of days in the ye	ition in chemical . missions to similar in service are tion. (ar) (x D for the be	dependency horr-term i a, based up	services in the se Apationt chemical non information pro	vided by the	ndard average use	vice area*	ed Population		y and
 (3) Protection (4) (1) (5) (4) (6) (5) (7) (6) 	Curren gth of stay - jected popúlat State Departm x (2) x (3) + 365 (number + Occupancy s rounded to the	t Wisconsin popula Total patiant days Total number of ad ion in 199% for ch ant of Administrat of days in the ye tandard in Appendi	ition in in chemical , imissions to a masservice area tion. mar) x D for the ba mader	dependency horr-term i a. based up ed compleme	services in the se apatient chemical ion information pro nt in the service	vided by the	ndard average use	vice area*	ed Population		y and

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APPENDIX D HOSPITAL SERVICE OCCUPANCY STANDARDS [HSS 123.27(3)(c)]

Medical/Surgical Services

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Number of beds in service area		Occupancy standard
1-25	× .	61%
26-50		69%
51-75		74%
76-100		78%
101-150		80%
151-250		82%
251+		85%

Pediatric Services

service	area	Occupancy standard
1-10	-	50%
11-15	, .	52%
16-20		57%
21-25		60%
26-75		65%
76-100		78%
101-150		80%
151-200		82%

Obstetric Services

Number of beds in service area	Occupancy standard
1-10	50%
11-15	51%
16-20	59%
21-25	62%
26-30	64%
31+	70%

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ICU/CCU Services

Number of beds in service area	Occupancy standard		
	····		
1-10	50%		
11-15	56%		
16+	66%		

Psychiatric/Chemical Dependency Services

Number of beds in service area Oc	ccupancy sta	ndard
1-20 21+	80% 85%	
Long-Term Psychiatric Ser	rvices	
Number of beds in		

service area

Occupancy standard

90%

1+

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	APPEND	ACUTE CA	HSS 123.27(10)] RE SERVICE AREA X			
Hospital	Patient Days	<u>Currer</u> Total Beda	Occupancy (Z)	SMFP Expected Occupancy (Z)	Current Hospital Excess	
A B* C*	(1) ****,*** ***,***	xxx ⁽²⁾ xxx xx	(3) xx.x xx.x xx.x	xx(4) xx xx xx	xx (5) , xx x xx	- ,
Kospital	Curre Hospital		Share of Excess 199X ACSA Excess	199X Proportionat of Hospital		-

 Import in the of Excess

 Current
 ACSA
 Proportionate Share

 A
 xx(5)
 xx(8)

 3*
 xx(5)
 xx(8)

 C*
 xx(5)
 xx(8)

 xx(6)
 xx(7)
 xx(7)

*Same calculation as performed on hospital A performed on all hospitals in the service area.

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APPENDIX E: NOTES (1) Total patient days from the Wisconsin Annual Survey of Hospitals excluding patient days for psychiatric and chemical dependency (AODA) services and from meonatal intensive and intermediate care. (2) Total approved beds excluding psychiatric, chemical dependency (AODA), neonatal intensive and intermediate care. (3) {(1) + 365] + (2) (4) Sum of (a) + (b) + (c) + (d): (a) -Medical/Surgical Service bed complement + Total approved beds (excluding x Medical/Surgical occupancy standard for (all other bads excluding psychiatric, psychiatric, chemical dependency, and the hospital's medical/surgical bed nconatal intensive/intermediate) chemical dependency and neonatal complement from appendix D. intensive/intermediate) + Total approved beds (excluding **(b)** Pediatric service bed complement x Pediatric occupancy scandard in Appendix psychiatric, chamical dependency, and D unless the unit is less than 10 beds neonatal intensive/intermediate) for which the medical/surgical occupancy rate in (4a) is used. Total approved beds (excluding x Obstatrics occupancy standard in (c) Obstatrics service bad complement ÷ psychiatric, chemical dependency, and Appendix D. neonatal intensive/intermediate) (d) ICU/CCU bed complement + Total approved beds (excluding x ICD/CCU occupancy standard in Appendix D. psychiatric, chemical dependency, and neonatal intensive/intermediate) (5) (2) $-\left[\frac{(1)+(4)}{365}\right]$ (6) Sum of current hospital excess for all hospitals in ACSA [(5) + (5a) + (5b)](7) Total projected ACSA as stated in the SMFP and as calculated in Appendix C-1. (8) (5) \times (7) + (6) (8a) $(5a) \times (7) + (6)$ (8b) (5b) x (7) + (6) If (5), (5a) or (5b) are negative, the numbers are excluded from the calculation to determine (6) and therefore in the calculation of 199% proportionate share of hospital excess. NOTE: (5a) and (5b) represent current hospital excess for the other hospitle in the ACSA XX.

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