tion system will be used to determine the distance corresponding to 30 minutes travel

The population count used will be the total permanent resident civilian population of the area, excluding inmates of institu-tions, with the following adjustments,

Population Count.

gnation (or withdrawal of designa-

ty so designated is in whole or in part located; tion), to: (1) The Governor of each State in which the area, population group, medical facility, or other public facili-

(2) Each HSA for a health service area which includes all or any part of the area, population group, medical facility, or other public facility so desig(3) The SHPDA for each State in which the area, population group, medical facility, or other public faciliy so designated is in whole or in part located; and

(4) Appropriate public or nonprofit private entitles which are located in or which have a demonstrated interest in

the area so designated.

(b) The Secretary will periodically publish updated lists of designated health professional(s) shortage areas in the Federal Register, by type of professional(s) shortage. An updated list of areas for each type of professional(s) shortage will be published at least once annually.

(c) The effective date of the designation of an area shall be the date of the notification letter to the individual or agency which requested the designation, or the date of publication in the PEDERAL REGISTER, whichever comes

the area's designation shall be the date when notification of the withed areas which does not include it, is EPAL REGISTER as a designated health professional(s) shortage area, the eflective date of any later withdrawal of drawai, or an updated list of designat-(d) Once an area is listed in the FEDpublished in the Federal Register.

APPENDIX A TO PART 5-CRITERIA POR SHORTAGES OF PRIMARY MEDICAL AREAS CARE PROFESSIONAL(S) DESIGNATION OF

Part I-Geographic Areas

A. Criteria.

geographic area will be designated as having a shortage of primary medical care professionals if the following three criteria are met:

1. The area is a rational area for the delivery of primary medical care services.

2. One of the following conditions prevails within the area:

(a) The area has a population to full-timeequivalent primary care physician ratio of at least 3,500:1.

equivalent primary care physician ratio of less than 3,500:1 but greater than 3,000:1 and has unusually high needs for primary (b) The area has a population to full-timecare services or insufficient capacity of ex-

3. Primary medical care professionals in contiguous areas are overutilized, excessively distant, or inaccessible to the population of isting primary care providers. the area under consideration.

B. Methodology.

in determining whether an area meets the criteria established by paragraph A of this the following methodology will be 1. Rational Areas for the Delivery of Pripart. used:

(a) The following areas will be considered rational areas for the delivery of primary medical care services:

mary Medical Care Services.

(i) A county, or a group of contiguous counties whose population centers are within 30 minutes travel time of each other.
(ii) A portion of a county, or an area made up of portions of more than one county, whose population, because of topography, market or transportation patterns, distinclive population characteristics or other factors, has ilmited access to contiguous area resources, as measured generally by a travel

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Ime greater than 30 minutes to such re-

interaction or interdependency), have limited interaction with configuous areas, and which, in general, have a minimum populamunities within metropolitan areas which display a strong self-identity (as indicated by a homogeneous socioeconomic or demo-(iii) Established neighborhoods and comtlon of 20,000.

(b) The following distances will be used as guidelines in determining distances corresponding to 30 minutes travel time:

(i) Under normal conditions with primary

roads available: 20 miles.

Svalisore: 4v mines.
In mountainous terrain or in areas € with

Within inner portions of metropolitan areas, information on the public transportaby interstate highways: 25 miles.

table by the size of the area population within that particular age-sex cohort and adding the resultant 12 visit figures together. This total expected visit rate will then be divided by the U.S. average per capita visit rate of 5.1, to obtain the adjusted population for the area. where appropriate:

(a) Adjustments to the population for the differing health service requirements of various age-sex population groups will be computed using the table below of visit rates for 12 age-sex population cohorts. The total expected visit rate will first be obtained by multiplying each of the 12 visit rates in the (III) In flat terrain or in areas connected

			Age groups	sdno		STATE OF STREET
Хөх	Under 5	41-2	15-24	25-44	45-64	65 and over
Made Female	7.3	3.2	69 A.	9.0	6.5	6.8

(b) The effect of transient populations on the need of an area for primary care professional(s) will be taken into account as

(i) Seasonal residents, i.e., those who maintain a residence in the area but inhabit it for only 2 to 8 months per year, may be included but must be weighted in proportion to the fraction of the year they are present in the area.

(ii) Other tourists (non-resident) may be included in an area's population but only with a weight of 0.25, using the following formula: Effective tourist contribution to population = 0.25 × (fraction of year tourists are present in area) × (average dally number of tourists during portion of year that tourists are present).

(iii) Migratory workers and their families grant contribution to population=(fraction of year migrants are present in area) x (average dally number of migrants may be included in an area's population, using the following formula: Effective miduring portion of year that migrants are present).

3. Counting of Primary Care Practition-

(M.D.) and doctors of osteopathy (D.O.) providing direct patient care who practice principally in one of the four primary care specialities—general or family practice, gen-(a) All non-Federal doctors of medicine

stetrics and gynecology—will be counted. Those physicians engaged solely in administration, research, and teaching will be excluded. Adjustments for the following factors will be made in computing the number of full-time-equivalent (FTE) primary care

(i) Interns and residents will be counted as 0.1 full-time equivalent (FTE) physicians. physicians:

who are not citizens or lawful permanent residents of the United States will be excluded from physician counts. (II) Graduates of foreign medical schools

nent residents of the United States, but do (III) Those graduates of foreign medical schools who are citizens or lawful permanot have unrestricted licenses to practice medicine, will be counted as 0.5 FTE physi-

(b) Practitioners who are semi-retired, who operate a reduced practice due to infirmity or other limiting conditions, or who provide patient care services to the residents of the area only on a part-time basis will be discounted through the use of full-time equivalency figures. A 40-hour work week will be used as the standard for determining practitioners working less than a 40-hour week, every four (4) hours (or 1/2 day) spent full-time equivalents in these cases. For providing patient care, in either ambulatory or inpatient settings, will be counted as 0.1 clans.

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rounded to the mearest 0.1 FTE), and each physician providing patient care 40 or more hours a week will be counted as 1.0 FTE physician. (For cases where data are available only for the number of hours providing patient care in office actings, equivalencies will be provided in guidelines.)

(c) In some cases, physicians located within an area may not be accessible to the FTE (with numbers obtained for FTE's

practices can be made, on a case-by-case basis. However, where only a portion of the population of the area cannot access existing primary care resources in the area, a population group designation may be more appropriate (see part II of this appendix).

(d) Hospital staff physicians involved exclusively in inpatient care will be excluded. The number of full-time equivalent physi-Allowances for physicians with restricted population of the area under consideration.

clans practicing in organized outpatient de-partments and primary care clinics will be included, but those in emergency rooms will

provisions of the Medicare-Medicald Anti-Fraud and Abuse Act for a period of eight-(e) Physicians who are suspended be excluded.

een months or more will be excluded.
4. Determination of Unusually High Needs

for Primary Medical Care Services.
An area will be considered as having unusually high needs for primary health care services if at least one of the following crite-

ria is met:

(a) The area has more than 100 births per year per 1,000 women aged 15-44.

(b) The area has more than 20 infant deaths per 1,000 live births.

(c) More than 20% of the population (or of all households) have incomes below the poverty level

5. Determination of Insufficient Capacity of Existing Primary Care Providers.

An area's existing primary care providers will be considered to have insufficient ca-pacity if at least two of the following crite-

visits per year per FTE primary care physi-(a) More than 8,000 office or outpatient cian serving the area. ria are met:

(b) Unusually long waits for appointments for routine medical services (i.e., more than 7 days for established patients and 14 days (c) Excessive average waiting time at primary care providers (longer than one hour for new patients).

where patients have appointments or two hours where patients are treated on a first-(d) Evidence of excessive use of emergency come, first-served basis).

(e) A substantial proportion (2/3 or more) of the area's physicians do not accept new room facilities for routine primary care.

(f) Abnormally low utilization of health services, as indicated by an average of 2.0 or

office visits per year on the part of the area's population.

Contionous Area Considerations.

Primary care professional(s) in areas contiguous to an area being considered for designation will be considered excessively distant, overutilized or inaccessible to the population of the area under consideration if one of the following conditions prevails in each contiguous area:

travel time from the population center(s) of the area being considered for designation (measured in accordance with paragraph contiguous area are more than 30 minutes (a) Primary care professional(s) in B.1(b) of this part).

full-time-equivalent primary care physician ratio is in excess of 2000:1, indicating that practitioners in the configuous area cannot (b) The contiguous area population-tobe expected to help alleviate the shortage situation in the area being considered for to help alleviate the shortage designation.

(c) Primary care professional(s) in the contiguous area are inaccessible to the population of the area under consideration because of specified access barriers, such as:

under

(i) Significant differences between the demographic (or socio-economic) characteristics of the area under consideration and those of the contiguous area, indicating that the population of the area under consider-ation may be effectively isolated from nearby resources. This isolation could be indicated, for example, by an unusually high proportion of non-English-speaking persons.

(ii) A lack of economic access to contiguous area resources, as indicated particularly where a very high proportion of the populaulation or the households have incomes ered or public primary care services are not tion of the area under consideration is poor il.e., where more than 20 percent of the popbelow the poverty level), and Medicald-covavailable in the contiguous area.

time equivalent primary care physicians and the presence or absence of unusually high needs for primary health care services. acdegree-of-shortage groups, based on the ratio (R) of population to number of fullneeds for primary health care services, cording to the following table: Designated areas will be assigned C. Determination of Degree of Shortage

	indicated	Tight today tight
Group 1	No physicians	No physicians; or
Group 2 Group 3 Group 4	R≥5,000 5,000 > R≥ 4,000 4,000 > R⇒3,500	5,000 > H ≥ 4,000 4,000 > H ≥ 3,500 3,500 > H ≥ 3,000

D. Determination of size of primary care physician shortage. Size of Shortage (in

needed) will be computed using the followphysicians FTE primary

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ing formulas:

(1) For areas without unusually high need or insufficient capacity:
Primary care physician shortage=area population/3,500-number of FTE primary care physicians

(2) For areas with unusually high need or insufficient capacity:

Primary care physician shortage—area ulation/3,000 -- number of FTE prin care physicians

Part II-Population Groups

1. In general, specific population groups within particular geographic areas will be designated as having a shortage of primary medical care professionales) if the following three criteria are met.

(a) The area in which they reside is rational for the delivery of primary medical care services, as defined in paragraph B.1 of part I of this appendix.

(b) Access barriers prevent the population group from use of the area's primary medical care providers. Such barriers may be economic. Ilnguistic, cultural, or architectural, or could involve refusal of some providers to accept certain types of patients or to accept Medicald reimbursement.

the population group to the number of pri-mary care physicians practicing in the area and serving the population group is at least (c) The ratio of the number of persons in 3.000:1

2. Indians and Alaska Natives will be con-

sidered for designation as having shortages of primary care professional(s) as follows:

(a) Groups of members of Indian tribes (as defined in section 4(d) of Pub. L. 94-437, the Indian Health Care Improvement Act of 1976) are automatically designated.

(b) Other groups of Indians or Alaska Na-tives (as defined in section 4(c) of Pub. L. 94-437) will be designated if the general criterla in paragraph A are met.

Each designated population group will be assigned to a degree-of-shortage group, based on the ratio (R) of the group's population to the number of primary care physi-B. Determination of Degree of Shortage. clans serving it, as follows:

Group 1-No physicians or R>5,000. Group 2-5,000>R ≥ 4,000. Group 3-4,000>R ≥ 3,500. Group 4-3,500>R > 3,000

tion on the ratio of the number of persons in the group to the number of FTE primary "automatic" designation will be assigned to Population groups which have received degree-of-shortage group 4 If no informacare physicians serving them is provided.

C. Determination of size of primary care physician shortage. Size of shortage (in number of primary care physicians needed)

will be computed as follows:
Primary care physician shortage=
number of persons in population group73,000 - number of FTE primary care
physicians

Part III—Facilities

A. Federal and State Correctional Institu-

Medium to maximum security Frderal and State correctional institutions and youth detention facilities will be designated as having a shortage of primary medical care professional(s) if both the following criteria are met:

(a) The institution has at least 250 in-

(b) The ratio of the number of internees per year to the number of FTE primary care physicians serving the institution is at least

Here the number of internees is defined as follows:

indicate that intake medical examinations are routinely performed upon entry, then-(i) If the number of new inmates per year and the average length-of-stay are not specifled, or if the information provided does not Number of Internees = average number of Inmates.

examinations are routinely performed upon entry, then-Number of internees average (ii) If the average length-of-stay is specified as one year or more, and intake medical number of inmates+(0.3)×number of new Inmates per year.

nations are routinely performed upon entry, then—Number of internees=average Inmates $+(0.2)\times(1+ALOS)$ ALOS=average length-of-stay (in fraction of year). (The number of FTE primary care (III) If the average length-of-stay is speci fled as less than one year, and intake exami-2) xnumber of new inmates per year where physicians is computed as in part I, section B, paragraph 3 above.) jo number

Designated correctional institutions will be assigned to degree of shortage groups 2. Determination of Degree of Shortage.

based on the number of inmates and/or the ratio (R) of internees to primary care physi-Group 1-Institutions with 500 or more inclans, as follows:

Group 2-Other institutions with no phymates and no physicians.

Group 3-Institutions with R greater than (or equal to) 1,000:1 but less than 2,000:1. (or equal to) 2,000:1.

sicians and institutions with R greater than

B. Public or Non-Profil Medical Facilities.

Criteria

Public or non-profit private medical facili-ties will be designated as having a shortage of primary medical care professional(s) if:

cal care services to an area or population group designated as having a primary care professional(s) shortage; and (b) the facility has insufficient capacity to meet the primary care needs of that area or (a) the facility is providing primary medi-

population group.

2. Methodology

In determining whether public or non-profit private medical facilities meet the cri-teria established by paragraph B.1 of this Part, the following methodology will be nsed

(a) Provision of Services to a Designated Area or Population Group.

A facility will be considered to be providing services to a designated area or population group if either:

care services are being provided to residents of designated primary care professional(s) shortage areas or to population groups des-(i) A majority of the facility's primary

ignated as having a shortage of primary care professional(s); or (ii) The population within a designated primary care shortage area or population group has reasonable access to primary care services provided at the facility. Reasonable access will be assumed if the area within minutes travel time of the facility and non-physical barriers (relating to demographic and socioeconomic characteristics of the population) do not prevent the population from receiving care at the facility. Migrant health centers (as defined in sec-tion 319(a)(1) of the Act) which are located which the population resides lies within 30

in areas with designated migrant population groups and Indian Health Service facilities are assumed to be meeting this requirement. (b) Insufficient capacity to meet primary A facility will be considered to have insufcare needs.

needs of the area or population it serves if at least two of the following conditions exist at the facility: licient capacity to meet the primary care

visits per year per FTE primary care physician on the staff of the facility. (Here the number of FTE primary care physicians is computed as in Part I. Section B. paragraph (i) There are more than 8,000 outpatient

(ii) There is excessive usage of emergency room facilities for routine primary care. 3 above.)

(III) Waiting time for appointments is more than 7 days for established patients or more than 14 days for new patients, for rouine health services.

than 1 hour where patients have appointments or 2 hours where patients are treated on a first-come, first-served basis.

3. Determination of Degree of Shortage.
Each designated medical facility will be (iv) Waiting time at the facility is longer

assigned to the same degree-of-shortage group as the designated area or population group which it serves.

[45 FR 76000, Nov. 17, 1980, as amended at 64 FR 8137, Mar. 2. 1989; 57 FR 2480, Jan. 22, 1992]

APPENDIX B TO PART 5-CRITERIA FOR AREAS HAVING SHORTAGES OF DENTAL PROFESSORAL(S) DESIGNATION OF

Part I-Geographic Areas

having a dental professional shortage if the following three criteria are met:

1. The area is a rational area for the delivgeographic area will be designated as

ery of dental services.
2. One of the following conditions prevails

in the area:

(a) The area has a population to full-timeequivalent dentist ratio of at least 5,000:1, or (b) The area has a population to full-time-

equivalent dentist ratio of less than 5,000:1 but greater than 4,000:1 and has unusually high needs for dental services or insufficient capacity of existing dental providers.

Dental professionals in contiguous areas are overutilized, excessively distant, or inaccessible to the population of the area under consideration. In determining whether an area meets the criteria established by paragraph A of this part, the following methodology will be

1. Rational Area for the Delivery of Dental Services.

(a) The following arens will be considered rational areas for the delivery of dental health services:

(i) A county, or a group of several contiguous countles whose population centers are within 40 minutes travel time of each other. (II) A portion of a county (or an area made portions of more than one county) jo dn

whose population, because of topography,

market or transportation patterns, distinc-tive population characteristics, or other fac-

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tors, has limited access to contiguous area resources, as measured generally by a travel time of greater than 40 minutes to such re-

sources.
(III) Established neighborhoods and commutities within metropollian areas which display a strong self-identity (as indicated by a homogenous socioeconomic or demographic structure and/or a traditional of interaction or intradependency, have limited interaction with configuous areas, and which, in general, have a minimum populatlon of 20,000.

(b) The following distances will be used as fuldelines in determining distances corre-

sponding to 40 minutes travel time:
(1) Under normal conditions with primary roads available: 25 miles.
(11) In mountainous terrain or in areas

in mountainous terrain or in areas only secondary roads available: 20

(III) In flat terrain or in areas connected by interstate highways: 30 miles.

areas, information on the public transporta-tion system will be used to determine the distance corresponding to 40 minutes travel Within inner portions of metropolitan

2. Population Count.

The population count use will be the total permanent resident civilian population of the area, excluding inmates of institutions, with the following adjustments:

(a) Seasonal residents, i.e., those who maintain a residence in the area but inhabit it for only 2 to 8 months per year, may be included but must be weighted in propor-

tion to the fraction of the year they are present in the area.

(b) Migratory workers and their families may be included in an area's population using the following formula: Effective migrant contribution to population=(fraction of year ingrants are present in of year inigrants are present in area) × (average dally number of migrants during portion of year that migrants are present).

tlent care will be counted, except in those areas where it is shown that specialists (those dentists not in general practice or pedodoniics) are serving a larger area and are 3. Counting of Dental Practitioners.
(a) All non-Federal dentists providing panot addressing the general dental care needs of the area under consideration.

(b) Full-time equivalent (FTE) figures will be used to reflect productivity differences among dental practices based on the age of the dentists, the number of auxiliaries em-ployed, and the number of hours worked per week. In general, the number of FTE dentists will be computed using weights ob-tained from the matrix in Table 1, which is based on the productivity of dentists at variries, as compared with the average produc-tivity of all dentists. For the purposes of ous ages, with different numbers of auxilia-

these determinations, an auxiliary is de-fined as any non-dentist staff employed by the dentist to assist in operation of the practice.

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TABLE 1-EQUIVALENCY WEIGHTS, BY AGE AND NUMBER OF AUXILIARIES

	8	55-59	8 9	65+
		K5025		
No auxiliaries	0.8	0.7	80	6
One auxiliary	-		2 6	9 6
Two auditories			9 6	5 6
Three auritories		2 .	2 5	9 6
Four or more auxiliaries	. 4	4 4	2 :	9 9
	2		5.	7.

If information on the number of auxilia-ries employed by the dentist is not available, Table 2 will be used to compute the number of full-time equivalent dentists.

TABLE 2—EQUIVALENCY WEIGHTS, BY AGE

65+	9.0
60-64	9.0
55-58	0.9
< 55	1.2
	Equivalency weights.

ticular age group (or age/auxillary group) will be obtained by multiplying the number of dentists within that group by its corresponding equivalency weight. The total supply of FTE dentists within an area is The number of FTE dentists within a parthen computed as the sum of those dentists

hours per week). Where appropriate data are available, adjusted equivalency figures for dentists who are semi-retired, who operate a reduced practice due to infirmity or other limiting conditions, or who are available to the population of an area only on a part-time basis will be used to reflect the reduced availability of these dentists. In com-(c) The equivalency weights specified in tables 1 and 2 assume that dentists within a particular group are working full-time (40 puting these equivalency figures, every 4 hours (or ½ day) spent in the dental practice will be counted as 0.1 FTE except that each dentist working more than 40 hours a week will be counted as 1.0. The count obwill then be multiplied by the appropriate equivalency weight from table 1 or 2 to obtain a full-time equivalent figure for dentits within that particular age or age/auxiltained for a particular age group of dentists within each age (or age/auxillary) group. lary category.

4. Determination of Unusually High Needs for Dental Services.

usually high needs for dental services if at least one of the following criteria is met: An area will be considered as having un-

(a) More than 20% of the population (or

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(b) The majority of the area's population

does not have a fluoridated water supply.
5. Determination of Insu/fictent Capacity
of Eristing Dental Care Providers.
An area's existing dental care providers
will be considered to have insufficient capacity if at least two of the following crite-

a) More than 5,300 visits per year per

FTE dentist serving the area.
(b) Unusually long walts for appointments for routine dental services (i.e., more than 6 (c) A substantial proportion (% or more) of the area's dentists do not accept new pa-

6. Contiguous Area Considerations.
Dental professionalist in areas contiguous to an area being considered for designation will be considered excessively distant, overultilized or inaccessible to the population of the area under consideration if one of the following conditions prevails in each contignous area:

ous area are more than 40 minutes travel (a) Dental professionalis) in the contigu-

time from the center of the area being con-sidered for designation (measured in accord-ance with Paragraph B.L(b) of this part).

(b) Contiguous area population-to-(FTE) dentist ratios are in excess of 3,000; i. indi-cating that resources in contiguous areas cannot be expected to help allevinte the shortage situation in the area being considered for designation.

ered for designation of c. Dental professional(s) in the contiguous area are inaccessible to the population of the area under consideration because of specified access barriers, such ns; (i) Significant differences between the denographic (or socioeconomic) characterismose of the area under consideration and those of the contiguous area, indicating that the population of the area under consideration may be effectively isolated from nearby resources. Such isolation could be indicated, for example, by an unusually high proportion of non-English-speaking persons. (ii) A lack of economic access to confider a cous area resources, particularly where a current high proportion of the population of the population of the popular.

where more than 20 percent of the popula-tion or of the households have incomes below the poverty level) and Medicald-covered or public dental services are not available in the contiguous area.

C. Determination of Degree of Shortage.
The degree of shortage of a given geographic area, designated as having a shortage of dental professionalis, will be deter-

based on the mined using the following procedure: Designated areas will be assigned

ratio (R) of population to number of full-time-equivalent dentists and the presence or absence of unusually high needs for dental services, or insufficient capacity of existing dental care providers according to the fol-lowing table:

	Group 1	insufficient capacity nat indicated No dentists	insufficient capacity indicated No dentists or R ≥ 8.000.
--	---------	---	--

D. Determination of size of dental shortage. Size of Dental Shortage (in number of FTE dental practitioners needed) will be computed using the following formulas:
(1) For areas without unusually high

need:
Dental shortage=area population/
5,000 -number of FTF; dental practition-

population/ Dental shortage area population/ (2) For areas with unusually high need:

Part II - Population Groups

within particular geographic areas will be designated as having a shortage of dental care professionalis) if the following three In general, specified population groups

n. The area in which they reside is rational for the delivery of dental care services, as defined in paragraph B.1 of part I of this criteria are met:

appendix.

b. Access barriers prevent the population group from use of the area's dental provid-

The ratio (R) of the number of persons in the population group to the number of dentists practicing in the area and serving ü

the population group is at least 4,000; I.

2. Indians and Alaska Natives will be considered for designation as having shortages of denial professionalisms follows:

(a) Groups of members of Indian tribes (as defined in section 4(d) of Pub. L. 94-437, the Indian Health Care Improvement Act of 1976 are automatically designated.

(b) Other groups of Indians or Alaska Natives (as defined in section 4(c) of Pub. L. 196-437, the Indian Health Care Improvement act of 1976 are automatically designated.

(b) Other groups of Indians or Alaska Natives (as defined in section 4(c) of Pub. L. 196-437), will be designated if the general critical in paragraph 1 are met.

B. Determination of Degree of Shortage.

Each designated population group will be Each designated population group will be

Group 1-No dentists or R≥8,000.

assigned to a degree of shortage

group as

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Group 3-8.000 > R ≥ 6.000. Group 3-6.000 > R ≥ 5.000. Group 4-5.000 > R ≥ 4.000.

Population groups which have received "automatic" designation will be assigned to degree-of-shortage group 4 unless information on the ratio of the number of persons in the group to the number of FTE dentists serving them is provided.

C. Determination of size of dental short-age. Size of dental shortage will be comput-ed as follows: bell shortage=number of persons in pop-ulation group/4,000-number of FTE

dental practitioners

Part III-Facilities

A. Federal and State Correctional Institu-

1. Criteria

State correctional institutions and youth de-tention facilities will be designated as having a shortage of dental professionalis) if both the following criteria are met: Medium to maximum security Federal and

Ė (a) The institution has at least 250

(b) The ratio of the number of internees per year to the number of FTE dentists serving the institution is at least 1.500:1. Here the number of Internees is defined as

indicate that intake dental examinations are routinely performed by dentists upon and the average length-of-stay are not speci-fied, or if the information provided does not (I) If the number of new inmates per year entry, then-Number of Internees = average number of inmates.
(II) If the average length-of-stay is speci-

fled as one year or more, and intake dental examinations are routinely performed upon entry, then—Number of internees=average number of inmates+number of new inmates

(iii) If the average length-of-stay is speci-fled as less than one year, and intake dental examinations are routinely performed upon entry, then—Number of internees=average 2×ALOS)×number of new inmates per year where ALOS = average length-of-stay (in Inmates + 15×(1+ raction of year).

In part I, section B, paragraph 3 above.) (The number of FTE dentists is computed

2. Determination of Degree of Shortage.
Designated correctional institutions will be assigned to degree-of-shortage groups based on the number of inmates and/or the ratio (R) of internees to dentists, as follows:

Group 1—Institutions with 500 or more in-mates and no dentists.

tists and institutions with R greater than no dem Group 2-Other institutions with (or equal to) 3,000:1.

Group 3-Institutions with R greater than (or equal to) 1,500:1 but less than 3,000:1.

B. Public or Non-Profil Private Dental Fa-

1. Criteria.
Public or nonprofit private facilities providing general dental care services will be designated as having a shortage of dental professional(s) If both of the following criterla are met:

(a) The facility is providing general dental care services to an area or population group designated as having a dental designated as having professional(s) shortage; and

(b) The facility has insufficent capacity to meet the dental care needs of that area or population group.

In determining whether public or non-profit private facilities meet the criteria es-tablished by paragraph B.I. of this part, the following methodology will be used:

(a) Provision of Services to a Designated Area or Population Group.

ing services to an area or population group be provid-A facility will be considered to

if either:

(i) A majority of the facility's dental care services are being provided to residents of designated dental professional(s) shortage areas or to population groups designated as having a shortage of dental professional(s);

dental shortage area or population group has reasonable access to dental services provided at the facility. Reasonable access will be assumed if the population lies within 40 minutes travel time of the facility and non-physical barriers (relating to demographic and socioeconomic characteristics of the population) do not prevent the population (ii) The population within a designated from receiving care at the facility.

Migrant henith centers (as defined in section 319(a)(1) of the Act) which are located in areas with designated migrant population groups and Indian Health Service facilities (b) Insufficient Capacity To Meet Dental are assumed to be meeting this requirement.

ficient capacity to meet the dental care needs of a designated area or population group if either of the following conditions A facility will be considered to have insufexists at the facility. Care Needs.

(i) There are more than 5,000 outpatient visits per year per FTE dentist on the staff of the facility. (Here the number of FTE dentists is computed as in part I, section B, paragraph 3 above.) Public Health Service, MMS

(ii) Waiting time for appointments is more than 8 weeks for routine dental services.

8. Determination of Degree of Shoriage. Each designated dental facility will be assigned to the same degree of shortage group as the designated area or population group which it serves.

[45 FR 76000, Nov. 17, 1980, as amended at 84 FR 8738, Mar. 2, 1989; 57 FR 2480, Jan. 22, 1992]

DESIGNATION OF AREAS HAVING APPENDIX C TO PART 5-CRITERIA FOR SHORTAGES OF MENTAL HEALTH PRO-FESSIONALS

Part I-Geographic Areas

ignated as having a shortage of mental health professionals if the following four A. Criteria. A geographic area will be descriteria are met:

I The area is a rational area for the delivery of mental health services.

2. One of the following conditions prevails

(n) The area haswithin the area:

6,000 I and a population to psychiatrist ratio greater than or equal to 20,000:1, or (II) A population to core-professional ratio population-to-core-mental-healthprofessional ratio greater than or equal to

(III) A population-to-psychiatrist ratio (b) The area has unusually high needs for greater than or equal to 30,000:1;

greater than or equal to 9,000:1, or

A population-to-core-mental-healthprofessional ratio greater than or equal to mental health services, and has-4.500:1 and =

A population-to-psychiatrist ratio greater than or equal to 15,000:1, or

(ii) A population-to-core-professional ratio greater than or equal to 6,000:1, or A population-to-psychiatrist ratio

greater than or equal to 20,000.1;
3. Mental health professionals in contigutant or inaccessible to residents of the area ous areas are overutilized, excessively dis-

under consideration.

In determining whether an area meets the criteria established by paragraph A of this the following methodology will be B. Methodology. part.

1. Rutional Areas for the Delivery of Mental Health Services.

(a) The following areas will be considered rational areas for the delivery of mental health services:

(1) An established mental health catchment area, as designated in the State Mental Health Plan under the general criteria set forth in section 238 of the Community Mental Health Centers Act

has limited access to mental health resources in the rest of the catchinent area as measured generally by a travel time of greater than 40 minutes to these resources. (II) A portion of an established mental health catchment area whose population, because of topography, market and/or transportation patterns or other factors,

(III) A county or metropolitan area which contains more than one mental health catchment area, where data are unavailable by individual catchment area.

(b) The following distances will be used as guidelines in determining distances corre-(1) Under normal conditions with primary sponding to 40 minutes travel time:

In mountainous terrain or in areas only secondary roads available: 20 roads available: 25 miles. Ê

(III) In flat terrain or in areas connected by interstate highways: 30 miles.

Within Inner portions of metropolitan areas, information on the public transportation system will be used to determine the distance corresponding to 40 minutes travel

2. Population Count.

The population count used will be the total permanent resident civilian population of the area, excluding immates of institutlons.

professionals (as defined below) providing mental health patient care (direct or other including consultation and supervision) in ambulatory or other short-term care settings to residents of the area will be counting to presented separately, in terms of the number of full time equivalent (FTE) practitioners of each type represented. Counting of mental health professionals. (a) All non-Federal core mental health (b) Definitions:

trists, clinical psychologists, clinical social workers, psychiatric nurse specialists, and marringe and family therapists who meet (1) Core mental health professionals or professionals includes those psychiathe definitions below. core

(II) Psychiatrist means a doctor of medicine (M.D.) or doctor of osteopathy (D.O.)

(A) is certified as a psychiatrist or child Neurology and Psychlatry, or. If not certified is "broad eligible" (i.e., has successfully completed an accredited program of graduate medical or esteopathic education in psychiatry or child psychiatry); and alities Board of Fsychlatry and Neurology or by the American Osteonathic Board of psychiatrist by the American Medical Speci-

(B) Practices patient care psychiatry or child psychiatry, and is liceused to do so, if required by the State of practice.

diffully Christian psychologist means an Individual (normally with a doctorate in psychology) who is practicing as a clinical or counseling psychologist and is licensed or certified to do so by the State of practice; or, if licensure or certification is not required in the State of practice, an individual with a doctorate in psychology and two years of supervised clinical or counseling experience. (School psychologists are not included.)

(Iv) Clinical social worker means an Individual who-

(A) Is certified as a clinical social worker by the American Board of Examiners in Clinical Social Work, or is listed on the Mational Association of Social Workers' Clinical Register, or has a master's degree in social work and two years of supervised clinical experience; and

(B) Is licensed to practice as a social worker, if required by the State of practice. (v) Psychiatric nurse specialist means a registered nurse (R.N.) who-

Association as a psychiatric and mental health clinical nurse specialist, or has a (A) Is certified by the American Nurses master's degree in nursing with a specialization in psychiatric/mental health and two years of supervised clinical experience; and

(B) Is Hensed to practice as a psychilatric or mental health nurse specialist, If required by the State of practice.

or, if licensure or certification is not required by the State of practice, is eligible for clinical membership in the American Association for Marriage and Family Therapy. (vl) Marriage and family therapist means an individual (normally with a master's or doctoral degree in marital and family therapy and at least two years of supervised clinical experience) who is practicing as a marital and family therapist and is licensed or certified to do so by the State of practice;

to the population of an area only on a partitime basis (whether because they maintain another office elsewhere, spend some of their time providing services in a facility, are semi-retired, or operate a reduced practice for other reasons), will be counted on a partial basis through the use of full-time equivalency calculations based on a 40-hour week, Every 4 hours (or ½ day) spent providing patient care services in ambulalory or inpatient settings will be counted as 0.1 FTE, and each practitioner providing patient care for 40 or more hours per week as 1.0 FTE. Hours spent on research, teaching, vocational or educational counselling, and social services unrelated to mental health will be excluded; if a practitioner is located wholly or partially outside the service area, only those services actually provided within (c) Practitioners who provide patient the area are to be counted.

eration. Practitioners working in restricted facilities will be included on an FTE basis based on time spent outside the facility. Examples of restricted facilities include correctional institutions, youth detention facilities, residential treatment centers for emo-(d) In some cases, practitioners located within an area may not be accessible to the general population of the area under considtionally disturbed or mentally retarded chill-dren, school systems, and inpatient units of State or county mental hospitals.

(e) In cases where there are mental health facilities or institutions providing both inpatient and outpatient services, only those FTEs providing mental health services in outpatient units or other short-term care units will be counted.

(f) Adjustments for the following factors will also be made in computing the number of FTE providers:

(l) Practitioners in residency programs will be counted as 0.5 FTE.

not citizens or lawful permanent residents (II) Graduates of foreign schools who are of the United States will be excluded from

dents of the United States, and practice in certain settings, but do not have unrestricted licenses to practice, will be counted on a full-time-equivalency basis up to a maxi-(III) Those graduates of foreign schools who are citizens or lawful permanent resimun of 0.5 FTE.

(g) Practitioners suspended for a period of 18 months or more under provisions of the Medicare-Medicald Anti-Fraud and Abuse Act will not be counted. Public Health Service, MMS

4. Determination of unusually high needs for mental health services. An area will be considered to have unusually high needs for mental health services if one of the follow-

(a) 20 percent of the population (or of all households) in the area have incomes below ing criteria is met:

the poverty level.

(b) The youth ratio, defined as the ratio of the number of children under 18 to the number of adults of ages 18 to 64, exceeds (c) The elderly ratio, defined as the ratio of the number of persons aged 65 and over to the number of adults of ages 18 to 64, ex-

(d) A high prevalence of alcoholism in the population, as indicated by prevalence data showing the area's alcoholism rates to be in the worst quartile of the nation, region, or ceeds 0.25. State.

(e) A high degree of substance abuse in the area, as indicated by prevalence data showing the area's substance abuse to be in the worst quartile of the nation, region, or State.

5. Contiguous area considerations. Mental health professionals in areas contiguous to an area being considered for designation tilized or inaccessible to the population of the area under consideration if one of the will be considered excessively distant, overufollowing conditions prevails in each config-

the configuous area are more than 40 min-utes travel time from the closest population center of the area being considered for des-ignation (measured in accordance with para-graph B.1(b) of this part). (a) Core mental health professionals in nons area:

professional ratio in the configuous area is in excess of 3,000:1 and the population to psychiatrist ratio there is in excess of 10,000°T, indicating that core mental health professionals in the configuous area; are overutilized and cannot be experted to help alleviate the shorage situation in the area. other than psychiatrists are not available for the configuous area, a population-to-psyfor which designation is being considered. (If data on core mental health professionals chiatrist ratio there in excess of 20,000: may be used to demonstrate overutiliza

ous areas are inaccessible to the population (c) Mental health professionals in configuof the requested area dur to geographic, cultural, language or other barriers or because of residency restrictions of programs or fa-HILLES providing such professionals.

ing table, depending on the ratio (Re.) of population to number of FTE core-mental-health-service providers (FTE.); the ratio (R.) of population to number of FTE psychiatrists (FTE.); and the presence or ab-Designated areas will be assigned to degree-of-shortage groups according to the follow-Determination of degree of shortage sence of high needs:

High Needs Not Indicated

Group 3-Re ate 6,000:1 and Re ate 20,000 Group 4(n)-For psychiatrist placements only: All other areas with FTE, = 0 or R, Group 2-Rc gte . 6,000.1 and FTE, =0 Group 1 - FTE .: 0 and PTE, :: 0 gte 30,000

litioner placements: All other areas with Group 4(b) .- For other mental health Rc gle 9,000:1.

* Note "gle means greater than or equal to"

High Needs Indicated

Group 1—FTE, = 0 and PTE, = 0 Group 2—Rc gte 4,500:1 and FTE, = 0 Group 3—Rc gte 4,500:1 and Rr gte 15,000 Group 4(a)—For psychlatrist placements only: All other areas with FTE, - 0 or R, gte 20,000

Group 4(b) .- For other mental health prac-Ulloner placements: All other areas with R. gte 6,000:1.

1). Determination of Size of Shortage. Size of Shortage (in number of FTE profession als needed) will be computed using the following formulas: (1) For areas without unusually high need: Core professional shortage=area popula-tion/6,000 number of FTE core professionals

shortage = area population/ 20,000 . number of FTE psychiatrists Psychiatrist

tion/4,500 number of FTE core profes-Core professional shortage=area popula (2) For areas with unusually high need:

population/ 15,000 - number of FTE psychiatrists shortage = area Psychiatrist slonals

Part II .. Population Groups

ticular rational mental health service areas will be designated as having a mental health professional shortage if the following crite-A. Criteria, Population groups within parrla are met:

1. Access barriers prevent the population group from using those core mental health professionals which are present in the area;

2. One of the following conditions pre-

the population group to the number of persons in the population group to the number of FTE core mental health professionals serving the population group is greater than or equal to 4,500;1 and the ratio of the number of persons in the population group to the number of FTE psychiatrists serving the population group is greater than or equal to 15,000:1;

(b) The ratio of the number of persons in the population group to the number of FTE core mental health professionals serving the population group is greater than or equal to 6,000:1; or,

the population group to the number of FTE psychiatrists serving the population group is (c) The ratio of the number of persons in greater than or equal to 20,000:1.

B. Defermination of degree of shortage.

Designated population groups will be assigned to the same degree-of-shortage groups defined in part I.C of this appendix ration (R,) of the number of persons in the for areas with unusually high needs for mental health services, using the computed ratio (Rc) of the number of persons in the population group to the number of FTE serving the population group, and the population group to the number of FTE core mental health service providers (FTE.) psychiatrists (FTE,) serving the population

sous in population group/4.500-number Core professional shortage = number of per-C. Defermination of size of shortage. of shortage will be computed as follows: of FTE core professionals

Psychiatrist shortage = number of persons in population group/15,000 number of FTE psychlatrists

Parl III - Facilities

A. Federal and State Correctional Institu-

. Criteria.

State correctional institutions for adults or youth, and youth detention facilities, will be designated as having a shortage of psychiatric professionalts) if both of the following Medium to maximum security Federal and

(a) The institution has more than 250 criteria are met:

(b) The ratio of the number of internees per year to the number of FTE psychiatrists serving the institution is at least 2,000:1. mates, and

Here the number of internees is defined as

and the averege length-of-stay are not specified, or if the information provided does (i) If the number of new inmates per year examinations are routinely performed upon not indicate that intake psychiatric

Number of internees = average number of

(ii) If the average length-of-stay is specified as one year or more, and intake psychiatric examinations are routinely performed upon Inmetes entry, then-

Number of Internees = average number of Innates + number of new inmates per

specified as less than one year, and intake psychiatric examinations are routinely (iii) If the average length-of-stay is performed upon entry, then-

Inmates + 1/3 × (1+(2× ALOS) | × number Number of internees - average number of of new instales per year

where ALCS = average length-of-stay (in psychiatrists is computed as in Part I. fraction of year] [The number of FTE Section B, paragraph 3 above.)

on the number of immates and/or the ratio (R) Designated correctional institutions will be assigned to degree-of-shortage groups, based of Internees to TTE psychiatrists, as follows: 2. Determination of Degree of Shortage.

psychiatrists and institutions with R greater Group 1-Institutions with 500 or more Group 2-Other institutions with no inmates and no psychiatrist.

Group 3-Institutions with R greater than [or equal to] 2,000:1 but less than 3,000:1. than (or equal to) 3,000:1.

B. State and County Mental Hospitals. Criteria,

nated as having a shortage of psychiatric professional(s) If both of the following crite-State or county hospital will be design rla are met. (a) The mental hospital has an average (b) The number of workload units per FTE psychiatrists available at the hospital exceeds 300, where workload units are calcudally inpatient census of at least 100; and

Total workload units = average daily inpatient census + 2 imes (number of inpatient admissions per year) + 0.5 \times (number of admissions to day care and outpatient services lated using the following formula:

2. Determination of Degree of Shorlage. State or county mental hospitals will be assigned to degree-of-shortage groups, based on the ratio (R) of workload units to rumber of FTE psychiatrists, as follows:

Group 1-No psychiatrists, or R>1,800.

Group 2-1,800>R>1,200. Group 3-1,200>R>600.

Group 4-600> R> 300.

C. Community Mental Health Centers and Other Public or Nonprofit Private Facilities.

(CMHC), authorized by Pub. L. 94-63, or other public or nonprofit private facility providing mental health services to an area having a shortage of psychiatric professionalts) if the facility is providing for is responsible for providing) mental health services to an area or population group des-ignated as having a mental health professional(s), and the facility has insuffior population group, may be designated as having a shortage of psychiatric clent capacity to meet the psychiatric needs center mental health of the area or population group. community 1. Criteria.

It serves.

public or nonprofit private facilities meet the criteria established in paragraph C.1 of this Part, the following methodology will be In determining whether CMHCs or other 2. Methodology. used.

(a) Provision of Services to a Designated

Area or Population Group.

The facility will be considered to be providing services to a designated area or population group if either:

professionalis) shortage areas or to popula-tion groups designated as having a shortage (i) A majority of the facility's mental health services are being provided to resi mental health designated dents

psychiatric shortage area or population group has reasonable access to mental health services provided at the facility. of mental health professionalis); or (ii) The population within a designated relating to demographic and socioeconomic characteristics of the population) do not prevent the population from receiving care Such reasonable access will be assumed if the population lies within 40 minutes travel lime of the facility and nonphysical barriers at the facility.

(b) Responsibility for Provision of Serv-

ute, administrative action, or contractual agreement, has been given responsibility for providing and/or coordinating mental health services for the area or population This condition will be considered to be met if the facility, by Federal or State statwith applicable State consistent group.

(c) insufficient capacity to meet mental health service needs. A facility will be considered to have lisuificient capacity to meet the mental health service needs of the area

or population it serves if:

(i) There are more than 1,000 patient visits per year per FTE core mental health professional on staff of the facility, or (ii) There are more than 3,000 patient visits per year per FTE psychiatrist on staff of the facility, or (iii) No psychiatrists are on the staff and

this facility is the only facility providing for responsible for providing mental health services to the designated area or popula-Hon.

to the same degree-of shortage group as the designated area or population group which Each designated facility will be assigned 3. Determination of Degree-of-Shortage.

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