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Health Service Areas for the United States

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The objectives of this report are to document methods used to identify health service areas for the United States and to describe and evaluate these areas. A health service area is defined as one or more counties that are relatively self-contained with respect to the provision of routine hospital care. Service areas that include more than one county are characterized by travel between the counties for routine hospital care.

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State abbreviations

AL	Alabama	ME	Maine	OR	Oregon
AK	Alaska	MD	Maryland	PA	Pennsylvania
AZ	Arizona	MA	Massachusetts	RI	Rhode Island
AR	Arkansas	MI	Michigan	SC	South Carolina
CA	California	MN	Minnesota	SD	South Dakota
CO	Colorado	MS	Mississippi	TN	Tennessee
CT	Connecticut	MO	Missouri	TX	Texas
DE	Delaware	MT	Montana	UT	Utah
FL	Florida	NE	Nebraska	VT	Vermont
GA	Georgia	NV	Nevada	VA	Virginia
HI	Hawaii	NH	New Hampshire	WA	Washington
ID	Idaho	NJ	New Jersey	WV	West Virginia
IL	Illinois	NM	New Mexico	WI	Wisconsin
IN	Indiana	NY	New York	WY	Wyoming
IA	Iowa	NC	North Carolina	DC	District of Columbia
KS	Kansas	ND	North Dakota		
KY	Kentucky	OH	Ohio		
LA	Louisiana	OK	Oklahoma		

Symbols

- Data not available
 - ... Category not applicable
 - Quantity zero
 - 0.0 Quantity more than zero but less than 0.05
 - Z Quantity more than zero but less than 500 where numbers are rounded to thousands
 - * Figure does not meet standard of reliability or precision (estimate has relative standard error of more than 30 percent)
 - # Figure suppressed to comply with confidentiality requirements
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Health Service Areas for the United States

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Background

The objectives of this report are to document methods used to identify health service areas for the United States, and to describe and evaluate these areas. We define a health service area as one or more counties that are relatively self-contained with respect to the provision of routine hospital care. Service areas that include more than one county are characterized by travel between the counties for routine hospital care. We have assigned every county in the coterminous United States to a single service area that must have at least one hospital. The health service areas reflect current travel patterns between counties for routine hospital care.

This project was motivated in part by a decision at the National Center for Health Statistics (NCHS) to consider health service areas as possible primary sampling units (PSUs) for the National Health Interview Survey (HIS). Another motivation was the need to use health service areas as units of analysis to measure the availability of health care resources (for example, per capita physicians and hospital beds), to study geographic variation in health care use, and to study the relationship between health care resources, health care utilization, and health status (1). Before this project the most recently defined national health service areas were constructed using data that are now more than 20 years old (2). Thus, the new service areas will be a useful tool in conducting health services research.

The concept of a service area has been used in analyses of NCHS data to study the relationship between health care resources and use of health care (3,4). For example, data from the HIS have been used to study the relationship between the supply of surgeons and surgery rates within the HIS PSUs under the assumption that the PSUs were approximate health service areas (3). Another study analyzed the relationship between physician supply and use of physician services based on utilization data from the HIS and birth records (4). Individuals were categorized according to the physician supply in their service area of residence and a categorical data analysis was carried out.

Health service areas have been defined in a number of ways (5–8). Some of the methods that have been used to

define service areas include: (a) geopolitical boundaries, for example, counties and metropolitan statistical areas, (b) physical distance between hospitals, for example, 15-mile radius, (c) patient-origin analysis, and (d) price analysis. Geopolitical boundaries have been used as service areas primarily because they are expedient and compatible with many data systems, thus increasing the possibilities for data analysis. Physical distance has been considered on the basis that most hospital patients are admitted by office-based physicians who travel a limited distance to hospitals. Service areas based on patient-origin data use empirical data on travel patterns among communities for health care. The community can be a ZIP Code, census tract, town, county, metropolitan statistical area (MSA), or other geographic areas. Service areas may be formed using different algorithms with patient-origin data. Further, different sources of patient-origin data may be used, for example, hospital discharge records, birth records, or death records.

Health care commuting areas (HCCAs)

Although substantial literature exists concerning the definition of health service areas for States or local areas, there have been few attempts to identify service areas for the entire United States. One such attempt was health care commuting areas (HCCAs), defined by grouping counties based on 1968 national natality data, 1969 national mortality data, and 1970 census data on the journey to work (2). The natality data file contains data on the county of mother's residence and the county of delivery, providing information on travel patterns for obstetrical care. Similarly, the mortality data file includes the county of residence of the decedent as well as the county of death, providing information on travel patterns for hospital stays of decedents who die in hospitals. However, this analysis was not restricted to deaths that occurred in hospitals.

An algorithm was developed to group counties into areas so that travel outside areas was minimized. The algorithm grouped counties to minimize a commuting ratio (CR). CR is defined as the ratio of the total demand for health care services occurring in the group to the demand occurring in the group by group residents only.

The algorithm began by identifying a centroid, the county with the largest number of occurrences (for example, births). If the CR for the centroid and the county that had the highest percent of residents commuting into the centroid was less than for the centroid county alone, then the two counties were grouped together. The CR was recalculated adding the county with the highest percent commuting into the present group. If the CR decreased the county was added. The process was repeated until there were no counties that reduced the CR of the existing group. The county with the largest number of occurrences that was not included in the first group became the next centroid and the group was formed for that centroid in a similar manner, with the added constraint that the original centroid county could not be added to the new group. The process that was used to form the first two groups continued until there were no counties left ungrouped. Noncentroid counties could be linked with more than one group. Thus, the final step was to determine the best group for each county, that is, the group for which the county reduced the CR the most.

Eight alternative definitions of service areas were developed based on assigning different relative weights to the natality, mortality, and employment data and different threshold or minimal commuting levels. The total number of service areas for the United States under the eight definitions ranged from 385 to 950. The preferred algorithm assigned relatively more weight to the natality data and less to mortality and employment, resulting in the delineation of 780 areas for the nation. A disadvantage of this approach is that it requires complex computer programming. In addition, the algorithm was not documented in sufficient detail to replicate it precisely.

An analysis of data from the 1978 HIS compared how well the HCCAs and two other types of county aggregations performed as primary care physician service areas (9). The 780 HCCAs were compared with 183 areas

developed for economic analyses by the Bureau of Economic Analysis and 492 basic trading areas developed by Rand McNally. The results of this analysis suggested that the HCCAs were the most appropriate primary care physician service areas. The HCCAs were the smallest in size and population and exhibited an amount of outside area travel for care similar to that of the two larger types of areas. They also exhibited the greatest variability in physician supply. A similar analysis using 1983 NHIS data showed that the percent of visits that occurred outside the HCCA of residence remained about the same between 1978 and 1983, indicating that overall, service areas did not change substantially over this period.

Labor market areas

A more recent attempt to define service areas for the entire United States occurred in 1987 when the U.S. Department of Agriculture defined 382 labor market areas and 875 subareas to be used for statistical and planning purposes in research on rural America (10). These areas were based on 1980 Census journey to work data for counties. The relative strength of the commuting ties between each pair of counties was measured by the following ratio: the total number of commuters between two counties divided by the resident labor force of the smaller of the two counties. A matrix of these "distance measures" was used in hierarchical cluster analysis to form groups of counties with strong shared commuting ties. In addition to the cluster analysis, other criteria used to identify the labor market areas were (a) a minimum population of 100,000 due to Census confidentiality standards and (b) maximum geographic detail. The first criterion was achieved by combining some of the areas identified in the cluster analysis, while the second was achieved by identifying market subareas within larger labor market areas.

Methods

Data source

County was selected as the basic geographic unit of analysis because the county was the smallest geographic unit for which most national data sources are currently available. However, counties differ substantially in size and meaning across the country. In New England, towns and townships are smaller and more meaningful geographic units than counties, but data were not available for these geographic units. At the State and local level much work on service areas has used ZIP Code or census tract as the basic unit of analysis (11,12). Use of a smaller geographic unit than the county is desirable because travel patterns may differ for different sections of the county. In metropolitan areas the use of counties may mask important travel patterns for health care. Nevertheless, at the national level it was not practical to use geographic units smaller than the county at the present time. Three data sources with county-level data for the entire United States were considered — natality, mortality, and Medicare. We selected 1988 Medicare data on short-stay hospital stays as the most appropriate data source because it provides information on all types of hospital services and includes information about type of stay so that stays for specialized care could be eliminated. The drawback of Medicare data is that this information is only available for persons 65 years of age and over (17 percent of hospital discharges in 1988 based on the National Hospital Discharge Survey). However, data from the NHIS indicate that travel for ambulatory medical care does not differ substantially by age (13). Further, 1989 HIS data show that travel patterns for hospital stays also do not differ substantially by age (table G).

From the initial Medicare file containing data for 10 million hospital stays, 2 million records were eliminated for deaths, disabled and end-stage renal disease Medicare beneficiaries, hospital stays outside short-stay general hospitals, county of beneficiary missing or invalid, and residents outside the coterminous United States. Overall, 28 percent of hospital stays occurred outside the county of residence. Records were eliminated for the 1 million stays with Diagnosis Related Group (DRG) codes for which more than 35 percent of hospital stays occurred outside the county of residence. The rationale for this was to eliminate stays that were most likely to be for specialized care. Thus, the final Medicare data base included 7

million hospital stays with a median of 853 stays per county of residence. The number of Medicare hospital stays was greater than 100 for 97 percent of the counties. Only 48 counties had fewer than 50 stays.

Natality data were also considered as a possible data source. Birth certificates provide data on travel for obstetric care, and these data were used in the development of HCCAs. However, only about 70 percent of general medical and surgical hospitals have obstetric units (14) and 24 percent of counties do not have obstetric facilities, whereas only 16 percent of counties do not have short-stay general hospitals (15). Further, travel patterns for obstetric stays may differ from other types of stays because mothers may seek hospitals with birthing rooms or other types of facilities not routinely available. Although we decided not to use natality data to define the health service areas, national obstetric service areas were defined in a separate analysis based on natality data for 1984–86 using the same methods described for the Medicare data (see Appendix IV). Mortality data were eliminated as a possible data source because only about 60 percent of deaths occur in hospitals, and 70 percent of these are for persons 65 years of age and over, the same population covered by the Medicare data (16).

Cluster analysis

We used agglomerative hierarchical cluster analysis to group counties into service areas (17,18). Hierarchical cluster analysis generates a hierarchical classification for a set of observations (for example, counties) based on a measure of distance between observations. The distance measure can be any function that defines the relationship between observations. The hierarchical classification is defined by an ordered sequence of partitions of the observations. In the initial partition each cluster contains a single observation, that is, each observation starts out as its own cluster. The final partition consists of a single cluster that includes all observations. The partition at each level of clustering is formed by joining a single pair of clusters with the smallest distance measure. The sequential process of forming clusters can be carried out using different methods of redefining the distance measure after the first two observations have been joined to form a cluster. We selected the average linkage method as appropriate for construction of health service areas. In average

linkage the distance between two clusters is the average distance between all pairs of observations from the two clusters. The distance between two clusters $C(K)$ and $C(L)$ is defined by

$$Distance(K,L) = \frac{\sum_i \sum_j D_{ij}}{N(K) \cdot N(L)}$$

where D_{ij} is the distance measure between observations i and j , $N(K)$ is the number of observations in $C(K)$, and $N(L)$ is the number of observations in $C(L)$. When $N(K)=N(L)=1$, then $Distance(K,L) = D_{ij}$. The rationale for selecting the average linkage method is that it considers the distance between all pairs of observations in two clusters and is conceptually simple to understand. The average linkage method was also used in the development of labor market areas. Examples of some other conceptually simple methods that were rejected are single linkage and complete linkage. In single linkage the distance between two clusters is the minimum distance between an observation in one cluster and an observation in the other cluster. This approach tends to produce elongated clusters which are not appropriate for service areas. On the other hand, with complete linkage, the distance between two clusters is the maximum distance between an observation in one cluster and an observation in the other cluster. This approach tends to produce clusters with equal diameters and can be distorted by moderate outliers (19).

The CLUSTER procedure in SAS was used to carry out the agglomerative hierarchical cluster analysis using the average linkage algorithm (19). The TREE procedure in SAS was used to identify the desired level of clustering.

Distance measures

The input data for the cluster analysis was the following lower triangular matrix of distance measures (D_{ij}).

$$\begin{pmatrix} D_{21} & & & & \\ D_{31} & D_{32} & & & \\ \dots & & & & \\ D_{n1} & D_{n2} & \dots & & D_{nn-1} \end{pmatrix}$$

The distances measure the strength of the flow between pairs of counties (i and j) for routine hospital care. It should be noted that distance in this context has nothing to do with physical distance. Several alternative distance measures were considered, using the following notation:

F_{ij} = Flow of hospital stays to county i from county j , i.e., the number of hospital stays occurring in county i by residents of county j . For each pair of counties this flow can occur in both directions.

P_i = Total production of hospital stays (number of occurrences) in county i .

C_i = Total consumption of hospital stays by residents of county i (number of hospitalizations for the residents of county i).

H_i = The consumption of hospital stays in county i by the residents of that county (home county consumption).

Note that $H_i = F_{ii}$.

The flow between pairs of counties can be related in different ways to P , C , and H to construct many different distance measures (see Appendix I). After considering a number of alternatives, we selected the same measure that was used by the Department of Agriculture to construct labor market areas (10). The measure is defined as follows:

$$D_{ij} = 1 - (F_{ij} + F_{ji})/C_j \quad \text{if } P_i > P_j$$

$$D_{ij} = 1 - (F_{ij} + F_{ji})/C_i \quad \text{otherwise.}$$

Note that $D_{ij} = D_{ji}$. If $D_{ij} < 0$ then set $D_{ij} = 0.001$. The distance between two counties ranges from 0.001 to 1 and is a function of the total flow of hospital stays between two counties (regardless of the direction) and the consumption of hospital stays in the smaller county, that is, the county whose residents have fewer hospital stays. The ratio of flow to consumption is subtracted from 1, so that the distance is larger for pairs of counties with less interaction. The flow between counties is divided by consumption in the smaller county so that large counties do not dominate the analysis. We want the distance between two counties to be small in the case when residents of a small county are highly dependent on the hospitals in a large county for care. If the consumption by residents of the large county were included in the denominator then the strength of the relationship between a small and large county would be reduced.

A threshold value for the flow between two counties was defined such that if $F_{ij}/C_j <$ threshold value then F_{ij} was set to zero. The rationale for setting a threshold level was to eliminate highly unusual flow patterns from the analysis. For example, such unusual patterns could arise through hospital stays during out-of-town travel. We arbitrarily set the threshold value to 2 percent. This level was also used to define HCCAs (2).

To calculate the distance matrix, the Medicare hospital discharge data were arranged in a matrix with the rows representing the county of occurrence and the columns representing the county of residence as follows:

$$\begin{pmatrix} F_{11} & F_{12} & \dots & F_{1n} \\ F_{21} & F_{22} & \dots & F_{2n} \\ \dots & \dots & \dots & \dots \\ F_{n1} & F_{n2} & \dots & F_{nn} \end{pmatrix}$$

The off-diagonal elements of the matrix were the flows from county j to county i (F_{ij}) and from county i to county j (F_{ji}), and the diagonal elements were the home county consumption ($F_{ii} = H_i$). The row sums were the total number of Medicare hospital stays occurring in each county ($F_{i\cdot} = P_i$) and the column sums were the total number of Medicare hospital stays by residents of the county ($F_{\cdot j} = C_j$).

Precluster analysis methods

The distance matrix for all 3,073 counties in the coterminous United States could not be analyzed simultaneously due to computer space limitations. Thus, the United States was divided into six overlapping regions, such that the borders of most States were internal to one region. The six regions were defined as follows:

- I: Connecticut, Delaware, Kentucky, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Tennessee, Vermont, Virginia, Washington, DC, and West Virginia
- II: Alabama, Florida, Georgia, Kentucky, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, and Virginia
- III: Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Ohio, Pennsylvania, West Virginia, and Wisconsin
- IV: Alabama, Arizona, Arkansas, Colorado, Kansas, Louisiana, Mississippi, New Mexico, Oklahoma, Tennessee, and Texas
- V: Arkansas, Colorado, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, Oklahoma, South Dakota, and Wyoming
- VI: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Utah, Washington, and Wyoming

The use of six overlapping regions complicates the analysis considerably because the number of clusters must be specified for each of the six regions and decisions about the best solution for counties that appear in more than one region must be made.

Metropolitan statistical areas (MSAs)

Alternative solutions treated MSAs in two ways: (a) counties within an MSA were constrained to be within the same service area and (b) no constraints were placed on MSA counties. In both approaches nonmetropolitan counties could join the MSA counties to form service areas and counties in different MSAs were allowed to join the same service area. The rationale for constraining counties within an MSA to be in the same service area is that MSAs are formed based on strong economic and other linkages, and it was expected that these linkages might also apply to health care. On the other hand, we developed solutions with no constraints because certain MSAs encompass large geographic areas that may include multiple service areas. Further, linkages between counties for health care may differ from those for other types of services. There are 317 MSAs in the coterminous United States that include 729 counties. Of the 317 MSAs, 51 percent have 1 county, 21 percent have 2, 11 percent have

3, and 7 percent have 4 counties. The remaining 33 MSAs have 5 to 12 counties, with the exception of 1 MSA (Atlanta, Georgia) that has 18 counties.

Counties with no hospitals

After examining initial results from the cluster analysis, we found that certain small counties with no hospitals had an undue influence on the results. This could arise because counties are clustered based on the rank order of the distance measures without regard to the stability of the measure. A county whose residents have few hospital stays would have unstable and possibly very small distance measures, thereby clustering early and affecting the average distance measures for all subsequent linkages with its cluster. To help alleviate this problem, counties with no hospital stays occurring within the county (zero-production) were excluded from the cluster analysis. After the cluster analysis was completed, each zero-production county was assigned to the cluster where the greatest number of its residents' hospital stays occurred. The only exception to this procedure was for solutions that constrained all counties within an MSA to be within the same service area. In those solutions, counties within an MSA were kept in the cluster analysis after being linked to the other counties within their MSA, regardless of whether or not they had any hospitals. No hospital stays occurred within 503 counties, 54 of which were in MSAs.

Counties with strong ties

After linking counties within an MSA and eliminating counties with no production of hospital stays, counties with very strong ties were linked prior to the cluster analysis. Two counties were linked if the flow from county i to county j was more than 2 times greater than the flow from county i to any other county and the total consumption for county i was at least 50 hospital stays. However, if more than one county met this criterion with county j , then no linkage was formed. Part of the rationale for prelinking counties with strong ties was to reduce the number of observations in the cluster analysis, due to computer space limitations. However, few pairs of counties met these criteria and so these linkages had little effect on the number of observations or the clusters that were formed.

Geographic units of analysis

In the analysis that linked counties within MSAs, the initial 3,073 counties in the coterminous United States were reduced to 2,212 geographic units by linking the 568 counties within multiple-county MSAs and eliminating 449 nonmetro counties with no hospital stays. As previously discussed, a separate distance matrix was created for each of the six regions. The initial number of counties in each region, how that number was reduced by linking counties within MSAs,

linking counties with strong ties, and eliminating counties with zero-production are shown below.

Region	I	II	III	IV	V	VI
Counties	804	953	980	929	913	807
Counties/MSAS	615	802	842	839	859	769
Zero-production	121	181	150	112	154	131
Linked pairs	7	10	15	19	18	15
Analytic units	487	611	677	708	687	623

In the analysis that does not link counties within MSAs the initial 3,073 counties in the coterminous United States were reduced to 2,570 after eliminating the 503 counties with no hospital stays. The number of geographic units in the analysis for each region are shown below.

Region	I	II	III	IV	V	VI
Counties	804	953	980	929	913	807
Zero-production	147	213	168	121	162	132
Linked pairs	10	12	16	19	20	17
Analytic units	647	728	796	789	731	658

Numbers of clusters

In carrying out a cluster analysis a decision must be made concerning the appropriate number of clusters. In making this decision we considered previous research on national health service areas. An evaluation of the previously defined HCCAs indicated that these areas performed well as health service areas (9). We decided to develop a solution with 800 clusters, approximately the same number as HCCAs, under the assumption that the total number of service areas has not changed substantially between 1970 and 1988. This seems to be a reasonable assumption because there have not been major changes in the availability of hospital beds during this period (the number of community hospital beds per 1,000 population in the United States declined slightly from 4.3 to 3.9). The number of clusters in each of the 6 regions for the 800-cluster solution was based on the division of the HCCAs among the 6 regions: I 220, II 220, III 260, IV 240, V 240, and VI 240.

A 1400-cluster solution was also developed to provide a number of clusters closer to the current number of PSUs in the National Health Interview Survey. The 1400 clusters were divided among the 6 regions in the same proportion as the 800 clusters as follows: I 385, II 385, III 455, IV 420, V 420, and VI 420.

Postcluster analysis methods

The cluster results for the six overlapping regions had to be combined to form a national solution. Because the regions were defined using State borders, it was necessary to consider States in combining the six solutions. For each State, clusters were selected from

the region with the most complete coverage of the State's borders. Forty-one States had borders that were completely internal to only one region. The region selected for each of these States was:

- I: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington, DC, and West Virginia
- II: Alabama, Florida, Georgia, North Carolina, and South Carolina
- III: Illinois, Indiana, Ohio, Michigan, Wisconsin
- IV: Mississippi, Louisiana, and Texas
- V: Kansas, Nebraska, North Dakota, and South Dakota
- VI: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming

For the remaining eight States, the two regions that internalized the greatest physical distance of each State's borders were identified. Clusters from the region with the most complete border coverage were selected unless a comparable cluster from the second region included counties from a greater number of States. The rationale for this was that in those instances the second region provided better coverage of selected parts of the State's borders. The first and second choice regions for each of the eight States are: Kentucky, I and III; Tennessee, II and IV; Iowa, V and III; Minnesota, V and III; Missouri, VI and III; Arkansas, IV and V; New Mexico, VI and IV; and Oklahoma, IV and V.

This algorithm can be illustrated by considering New Mexico. All of New Mexico's borders are internal to region VI except for the border with Texas, a State that is not part of region VI. Thus, the region VI solution provides no information about the flow for hospital care between New Mexico and Texas. To obtain that information the region IV solution must be used. In those clusters where New Mexico counties are linked with Texas counties in the region IV solution, the solution would be selected according to the algorithm described above because the region IV clusters would include two States, Texas and New Mexico, whereas the region VI clusters would only include one State, New Mexico.

The next step in completing the national solution was to ensure that each county (except zero-production counties) was assigned to one and only one cluster. Counties with multiple solutions and counties without a solution were identified and a unique solution was assigned to each of these counties. The solution for which the county had the smallest percent of outside area travel for care was selected when a county had more than one solution. The rules defined above to select clusters from the two regional solutions for these eight States resulted in a small number of counties not being assigned to any cluster. In these instances either the alternative regional solution was used or the county without a solution was added to an

existing cluster. Finally, each zero-production county was assigned to the cluster where the greatest number of its hospital stays occurred. Six of the zero-production counties were not contiguous to the cluster where the greatest number of hospital stays occurred in at least one of the four solutions (Meade, Kentucky; Shelby, Missouri; Harding, New Mexico; Dallam, Texas; Rains, Texas; and Wayne, Utah). These counties were reassigned to the cluster where the second largest number of stays occurred, so that noncontiguous clusters were not formed.

A check was made for other clusters containing noncontiguous counties. Some of the noncontiguous clusters that were found were due to miscoding of county of hospital stay on the Medicare file. After editing the Medicare file and reassigning counties to clusters based on the corrected data, 16 counties or groups of counties remained noncontiguous to their clusters in at least 1 of the 4 solutions. Solutions for four of these counties or groups were not changed as they were separated from their clusters only by water, and there was substantial commuting across the water for hospital care (Mackinac, Michigan; Chowan, and Dare, North Carolina; and Middlesex, Virginia). In two instances water separates MSA counties that were constrained to stay together in the linked solutions (Marin, California and St. Tammany, Louisiana). Nine noncontiguous counties or groups were reassigned to a contiguous cluster based on examination of the travel patterns for the noncontiguous counties and/or their assignment in contiguous solutions. For example,

Cheyenne, Colorado was not contiguous to its cluster in the 800-unlinked solution only. Thus, results from the 800-linked solution were examined to reassign Cheyenne, Colorado to a contiguous cluster in the 800-unlinked solution. Other counties that were reassigned to new contiguous clusters in one or more solutions were Inyo, Mono, Los Angeles, and Orange, California; Rio Blanco and Kit Carson, Colorado; East Carroll and Morehouse, Louisiana; Barnstable, Massachusetts; Clatsop, Oregon; Montour and Schuylkie, Pennsylvania; Reeves, Texas; and Pacific, Washington.

The health service areas for the 800-unlinked solution were sent to each State for review. This provided a check on the validity of our methods across the United States. Overall, the health service areas produced by the cluster analysis were consistent with the knowledge of State experts regarding travel patterns in their States. Suggested changes were made to the health service areas for 27 counties in 9 States. Some of the possible reasons why the cluster analysis might not have worked well in certain areas are that the ranking of distance measures may not have been optimal for counties with few hospital stays or perhaps a different level of clustering may have been more appropriate for some areas. Changes suggested by State experts were evaluated with respect to their effect on the percent of stays by county residents outside the service area. Only changes that reduced the percent of stays by county residents commuting outside the service areas were incorporated in order to maintain consistent methodology across the nation.

Comparison of alternative solutions

Four alternative solutions were generated: 800 clusters and MSAs unconstrained, 800 clusters with MSA counties linked within the same service area, 1400 clusters and MSAs unconstrained, and 1400 clusters and MSA counties linked. Appendix II presents maps for the 800-unlinked solution. Appendix III lists the service areas for all four solutions and presents some summary statistics at the county and service area levels for the 800-unlinked and 1400-unlinked solutions.

Data presented for the four alternative solutions include service area size and demographic characteristics, health care resources, and travel across service area borders for care. For comparison, similar data are shown for health care commuting areas (HCCAs), counties, and National Health Interview Survey primary sampling units (HIS PSUs). (In New England there are multiple HIS PSUs in counties because the PSUs are assigned to townships. The entire county was assigned the PSU number that occurred most frequently in the county.) The numbers of service areas are 802 and 1,415 in the 2 unlinked solutions and 790 and 1,400 in the 2 linked

solutions. In both instances the numbers of areas differ slightly from 800 and 1,400 because the number of clusters had to be specified at the regional rather than national level. In addition, some adjustments to the solutions were made to eliminate noncontiguous clusters and to take into account the review by State experts.

Area size and demographic characteristics

The distribution of the number of counties per area differs substantially among the four solutions (table A). The percentage of single county areas ranges from 11 percent for the 800-unlinked solution to 50 percent for the 1400-linked solution. The linked solutions yielded more single county areas than the unlinked solutions, and the 1400-area solutions yielded a much higher percentage of single county areas than the 800-area solutions. The percentage of areas with 10 or more counties is also greater among the linked than unlinked solutions (6 percent compared with 3 percent for the 800-area solutions). Among the 1,855 HIS PSUs, 59 percent include only 1

Table A. Selected characteristics of service areas by type of area: United States

[Data are for the coterminous United States]

Characteristic of area	Type of area						
	800 unlinked	800 linked	1400 unlinked	1400 linked	HCCA	HIS PSU	County
Number of areas	802	790	1,415	1,400	775	1,855	3,073
Number of counties per area	Percent of areas						
1	11.1	16.6	41.2	49.9	22.7	58.7	100.0
2-3	41.6	41.5	44.6	35.4	38.1	37.1	...
4-5	28.4	22.2	10.7	9.0	18.5	2.5	...
6-9	16.3	13.7	3.2	4.1	13.8	1.2	...
10 or more	2.5	6.1	0.4	1.6	7.0	0.5	...
Boundary crossing							
State boundary	15.7	15.9	6.8	7.4	17.9	1.7	-
Regional boundary	2.7	3.0	1.3	1.6	4.1	0.2	-
MSAs in areas							
No MSA	54.4	64.3	68.3	77.9	64.9	84.6	76.3
1 MSA	39.4	31.8	30.3	21.6	28.1	14.2	23.7
2 MSAs or more	6.2	3.9	1.3	0.5	7.0	1.2	-
1987 population	Population in thousands						
5th percentile	14	13	7	7	10	3	3
25th percentile	50	41	21	18	33	14	11
50th percentile	126	93	52	41	77	33	23
75th percentile	279	238	143	113	225	73	54
95th percentile	1,161	1,276	726	679	1,285	388	316

Table B. Number of counties and population of service areas by type and metropolitan status of area: United States

[Data are for the coterminous United States]

Characteristic of area	Type and metropolitan status of area							
	800-unlinked		800-linked		1400-unlinked		1400-linked	
	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro
Number of areas	366	436	282	508	448	967	310	1090
Number of counties per area	Percent distribution							
1	5.5	15.8	7.1	21.9	20.3	50.9	18.1	59.0
2-3	33.1	48.6	25.5	50.4	52.5	41.0	35.8	35.3
4-5	32.5	25.2	24.5	20.9	19.6	6.5	23.6	4.9
6-9	24.3	9.9	26.6	6.5	6.5	1.7	15.5	0.8
10 or more	4.6	0.5	16.3	0.4	1.1	-	7.1	-
1987 population	Population in thousands							
5th percentile	110	9	134	9	59	6	115	6
25th percentile	192	28	208	26	135	16	176	15
50th percentile	296	56	362	51	233	31	286	30
75th percentile	570	95	705	84	466	59	646	55
95th percentile	2,116	186	2,427	165	1,634	127	2,203	113

Note: Metropolitan service areas include at least one metropolitan county.

county and 0.5 percent include 10 or more counties. Among the 775 HCCAs the distribution of numbers of counties per area is similar to that for the 800-area linked solution, although there are somewhat more single county HCCAs (23 percent compared with 17 percent). The percent of areas that cross State boundaries is 16 percent for both 800-area solutions, 7 percent for both 1400-area solutions, and 18 percent for the HCCAs. Only 2 percent of HIS PSUs cross State borders. Crossing of the 4 census region borders occurs for 1-3 percent of the service areas and 4 percent of HCCAs.

The percentage of areas that include only nonmetropolitan counties is greater for the 1400-area than 800-area solutions and greater for the linked than unlinked solutions, ranging from 54 percent for the 800-unlinked solution to 78 percent for the 1400-linked solution. Thus, more nonmetropolitan counties were joined with metropolitan counties in the unlinked solutions than the linked solutions, resulting in a higher median population for the unlinked solutions. In all 4 solutions a small number of service areas include at least 1 county from each of 2 or 3 MSAs, ranging from 0.5 percent for the 1400-linked solution to 6 percent for the 800-unlinked solution, and 7 percent for the HCCAs. Two service areas in the 800-unlinked solution and 4 service areas in the 800-linked solution include counties from 3 MSAs. Further, in the two unlinked solutions, some multiple-county MSAs split into more than one service area. For example, in the 800-unlinked solution counties from 42 MSAs split into 2 service areas and counties from an additional 22 MSAs split into 3 or more service areas. The 1987 median population per area ranged from 41,000 for the 1400-linked solution to 126,000 for the 800-unlinked solution. The 1987 median population was 33,000 for HIS PSUs and 77,000 for HCCAs.

Table B compares characteristics of service areas that include at least one metropolitan county with those that

do not. Areas that include both metro and nonmetro counties have been grouped with areas that include only metro counties because in both instances the most populated county is metropolitan. The distribution of the number of counties per area differs between metro and nonmetro service areas. The metro service areas include a larger number of counties than the nonmetro areas, particularly for the 800-linked solution where 16 percent of the 282 metro service areas have 10 or more counties. The percent of single county service areas is higher for nonmetro than metro service areas. More than half of the nonmetro areas in the 1400-area solutions are single county areas. The 1987 median population for the metro areas ranged from 233,000 for the 1400-unlinked solution to 362,000 for the 800-linked solution. For nonmetro areas the median population was 30-31 thousand for the 1400-area solutions and 51-56 thousand for the 800-area solutions.

MSAs in linked and unlinked solutions

This section describes the 800-area solutions for specific MSAs (New York City, Chicago, San Francisco, and Washington, DC) to examine differences between the linked and unlinked solutions in greater detail. In each instance the 800-linked solution yields a single service area for the MSA, whereas the 800-unlinked solution splits the MSA into as many as 6 service areas.

The New York MSA consists of the following eight counties: Bronx, Kings (Brooklyn), New York (Manhattan), Putnam, Queens, Richmond (Staten Island), Rockland, and Westchester. In the 800-linked solution these 8 counties joined with a 2-county MSA, Nassau and Suffolk. In contrast, the 800-unlinked solution splits the New York MSA into the following 5 service areas that range in size from 1 to 4 counties: (a) Rockland; (b) Richmond and Kings; (c) Bronx and New York; (d) Queens, Nassau, and

Table C. Availability of health care resources by type of area: United States

[Data are for the coterminous United States]

Type of resource	Type of area						
	800 unlinked	800 linked	1400 unlinked	1400 linked	HCCA	HIS PSU	County
Patient care physicians, 1986	Physicians per 100,000 population						
5th percentile	50	47	35	35	40	18	9
25th percentile	78	75	60	57	72	46	40
50th percentile	100	99	87	85	99	72	65
75th percentile	137	133	124	122	138	114	108
95th percentile	231	218	224	205	209	204	214
Short-stay hospital beds, 1987	Hospital beds per 100,000 population						
5th percentile	236	241	198	206	233	—	—
25th percentile	338	348	305	316	350	254	193
50th percentile	429	433	417	424	440	389	344
75th percentile	534	534	538	547	560	556	539
95th percentile	836	834	933	1,042	933	1,131	1,090
Short-stay hospitals, 1987	Number of hospitals						
5th percentile	1	1	1	1	1	—	—
25th percentile	3	2	1	1	2	1	1
50th percentile	5	4	2	2	4	2	1
75th percentile	8	8	4	4	7	3	2
95th percentile	20	22	12	13	25	8	5
Selected services, 1987	Percent of areas						
CT scanner	86.3	82.5	69.8	65.2	78.3	53.0	45.5
Cardiac catheterization	44.4	40.3	27.9	24.9	38.6	17.7	14.5
Magnetic resonance imaging	26.1	24.3	16.5	14.8	24.3	10.5	8.4

Suffolk; (e) Putnam, Westchester, Dutchess (Poughkeepsie MSA), and Ulster (a nonmetropolitan county).

The Chicago MSA includes Cook, DuPage, and McHenry counties. In the 800-linked solution these counties form a 6-county health service area with the Lake MSA (Lake county) and the Joliet MSA (Grundy and Will counties). In the 800-unlinked solution the Chicago MSA counties form a 4-county health service area with Lake county. Grundy and Will counties form their own 2-county service area in the 800-unlinked solution.

The San Francisco MSA includes 3 counties (Marin, San Mateo, and San Francisco) that are linked with Sonoma county (the Santa Rosa-Petaluma MSA) to form a 4-county service area in the 800-linked solution. In the 800-unlinked solution these same 4 counties form 2 service areas, one including San Francisco and San Mateo counties and a second including Marin and Sonoma counties.

In addition to the District of Columbia, the Washington MSA includes five counties in Maryland and six counties in Virginia. The 800-linked solution yields a 17-county service area for the Washington MSA that includes the entire Washington MSA as well as 5 adjacent nonmetropolitan counties. In contrast, the 800-unlinked solution splits the Washington MSA into 6 service areas that include a total of 23 counties. The six service areas range in size from two to five counties. One Washington MSA county (Calvert, Maryland) links with the Baltimore MSA, and another Washington MSA county (Frederick, Maryland) links with the York, Pennsylvania MSA. Two other Washington MSA counties (Stafford, Virginia and

Prince William, Virginia) link with only nonmetropolitan counties. The District of Columbia links with four Maryland counties within its MSA (Charles, Montgomery, Prince George's, and St. Mary's) and the remaining Virginia counties within the Washington MSA form their own service area (Arlington, Fairfax, Loudoun, and Alexandria).

Health care resources

Availability of health care resources by type of service area is shown in table C. The 1986 median physician to population ratio ranged from 85 per 100,000 in the 1400-linked solution to 100 per 100,000 in the 800-unlinked solution. The 1987 median hospital bed to population ratio ranged from 417 in the 1400-unlinked solution to 433 in the 800-linked solution. The median number of hospitals in 1987 was 2 for the 1400-area solutions and 4–5 in the 800-area solutions. The percent of areas with specialized hospital services (magnetic resonance imaging (MRI), cardiac catheterization, and computerized tomographic scanner (CT scanner)), was greater for the 800-area solutions than for the 1400-area solutions.

All four solutions exhibited substantial variability across service areas in the supply of health care resources per area. For example, for the 800-unlinked solution the number of patient care physicians per 100,000 population in 1986 ranged from 50 at the 5th percentile to 231 at the 95th percentile and the number of short-stay hospital beds per 100,000 population in 1987 ranged from 236 at the 5th percentile to 836 at the 95th percentile. Data on health care resources are also shown for counties and HIS PSUs

Table D. Availability of health care resources by type and metropolitan status of area: United States

[Data are for the coterminous United States]

Type of resource	Type and metropolitan status of area							
	800-unlinked		800-linked		1400-unlinked		1400-linked	
	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro
Patient care physicians, 1986	Physicians per 100,000 population							
5th percentile	75	42	89	42	64	31	91	32
25th percentile	103	67	112	63	102	53	117	52
50th percentile	132	84	140	83	133	73	148	72
75th percentile	177	103	183	102	183	95	193	96
95th percentile	274	145	265	143	283	145	280	145
Short-stay hospital beds, 1987	Hospital beds per 100,000 population							
5th percentile	235	241	242	239	187	204	237	195
25th percentile	321	360	344	353	293	315	326	314
50th percentile	393	462	403	446	382	430	412	427
75th percentile	495	575	509	561	499	567	512	565
95th percentile	705	999	685	876	704	1,106	720	1,147
Short-stay hospitals, 1987	Number of hospitals							
5th percentile	2	1	3	1	1	1	2	1
25th percentile	5	2	6	2	3	1	5	1
50th percentile	8	3	10	3	6	2	7	2
75th percentile	12	5	16	4	8	3	12	3
95th percentile	31	8	43	7	24	5	37	5
Selected services, 1987	Percent of areas							
CT scanner	99.7	75.0	99.7	73.0	97.8	56.9	99.7	55.4
Cardiac catheterization	80.3	14.2	89.4	13.0	72.1	7.5	88.1	6.9
Magnetic resonance imaging	48.4	7.3	56.0	6.7	42.0	4.7	52.6	4.0

Note: Metropolitan service areas include at least one metropolitan county.

in table C for comparative purposes. There is more variability in health care resources at the county and PSU level because these geographic units are not service areas. For example, more than 5 percent of both counties and HIS PSUs do not have any short-stay hospitals and so residents of those areas must seek hospital care elsewhere.

Table D compares the supply of health care resources in metropolitan and nonmetropolitan areas. As expected, physician supply was greater in the metro than the nonmetro service areas. For example, in the 800-unlinked solution the median number of physicians per 100,000 population in 1986 was 132 for the metro areas and 84 for the nonmetro areas. The median number of hospitals in 1987 in the nonmetro service areas was about a third of that in the metro service areas (3 compared with 8–10 for the 800-area solutions). In contrast, the median number of hospital beds per 100,000 population was lower for metro than nonmetro service areas (393 compared with 462 for the 800-unlinked solution), reflecting the much larger population in metro than nonmetro service areas. Nonmetro service areas were much less likely than metro service areas to have facilities for cardiac catheterization or nuclear magnetic resonance. CT scanners were available in more than 70 percent of the nonmetro service areas for the 800-area solutions and nearly all metro service areas.

Travel for health care

An important criterion for a health service area is the extent to which it is self-contained with respect to the provision of hospital care (20). The degree of self-

containment of the service areas has been evaluated using two data sources: 1988 Medicare data on routine short-stay hospital stays that were used to define the areas and 1989 National Health Interview Survey data on travel for short-stay hospital stays. Unlike the Medicare data set, which includes information about all counties in the United States, the HIS only includes data on a national sample of the civilian noninstitutionalized population. However, the HIS data provide information on all types of hospital stays (including specialized care) for the population under 65 years of age as well as those 65 years of age and over. Travel for hospital care has been measured in terms of both outflow (the proportion of stays by residents outside the area) and inflow (the proportion of stays provided in the area to nonresidents). In examining travel for hospital care it is important to consider metropolitan and nonmetropolitan areas separately. Although fewer hospital stays occur in nonmetropolitan areas, they are much more likely to involve substantial travel for care. Thus, counties have been classified according to metropolitan status and population using categories developed by the Department of Agriculture (15). In addition, certain tables classify service areas according to whether or not they include a metropolitan county.

Table E categorizes service areas according to the amount of travel outside the service area for routine hospital stays by Medicare beneficiaries. Service areas with less than 25 percent of residents' stays occurring outside the service area are providing the great majority of the routine hospital care for their residents and can be

Table E. Percent distribution of areas and population according to travel for routine Medicare hospital stays by type of area: United States, 1988

[Data are for the coterminous United States]

Travel measure	Type of area						County
	800 unlinked	800 linked	1400 unlinked	1400 linked	HCCA	HIS PSU	
Stays outside area by residents							
Percent distribution of areas							
Less than 25 percent	65.8	62.0	42.4	40.1	56.1	28.6	22.6
25-49 percent	33.8	37.2	50.5	50.5	37.9	39.6	38.0
50 percent or more	0.4	0.8	7.1	9.4	5.9	31.8	39.4
Percent distribution of population living in areas							
Less than 25 percent	93.1	94.4	84.6	88.5	93.9	83.3	65.3
25-49 percent	6.9	5.5	14.7	10.5	5.7	11.8	23.8
50 percent or more	0.0	0.0	0.7	1.1	0.4	4.9	10.9
Stays inside area by nonresidents							
Percent distribution of areas							
Less than 25 percent	93.5	93.0	83.9	81.6	82.1	68.6	64.5
25-49 percent	6.4	6.8	15.5	17.9	16.8	29.0	31.1
50 percent or more	0.1	0.1	0.6	0.5	1.2	2.4	4.4
Percent distribution of population living in areas							
Less than 25 percent	95.9	97.5	90.1	93.2	96.6	84.7	66.0
25-49 percent	4.0	2.5	9.6	6.6	3.2	14.4	30.4
50 percent or more	0.0	0.0	0.2	0.2	0.2	0.9	3.6

Table F. Percent distribution of areas and population according to travel for routine Medicare hospital stays by type and metropolitan status of area: United States, 1988

[Data are for the coterminous United States]

Travel measure	Type and metropolitan status of area									
	800-unlinked		800-linked		1400-unlinked		1400-linked		HCCA	
	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro	Metro	Nonmetro
Stays outside area by residents										
Percent distribution of areas										
Less than 25 percent	90.2	45.4	98.2	41.9	80.1	24.9	95.2	24.5	94.9	35.2
25-49 percent	9.8	53.9	1.8	56.9	19.4	64.9	4.8	63.5	5.2	55.7
50 percent or more	-	0.7	-	1.2	0.5	10.1	-	12.0	-	9.2
Percent distribution of population living in areas										
Less than 25 percent	97.0	66.0	99.4	62.4	92.5	46.8	98.1	44.9	99.1	56.0
25-49 percent	3.0	33.9	0.6	37.3	7.5	49.3	1.9	49.2	0.9	40.7
50 percent or more	-	0.1	-	0.3	0.1	3.9	-	5.8	-	3.3
Stays inside area by nonresidents										
Percent distribution of areas										
Less than 25 percent	94.8	92.4	95.7	91.5	85.5	83.1	87.7	79.8	92.7	76.3
25-49 percent	5.2	7.3	4.3	8.3	13.6	16.4	11.3	19.8	6.6	22.3
50 percent or more	-	0.2	-	0.2	0.9	0.4	1.0	0.4	0.7	1.4
Percent distribution of population living in areas										
Less than 25 percent	96.1	95.1	98.2	93.2	90.8	86.7	95.7	81.8	98.1	85.7
25-49 percent	3.9	4.8	1.8	6.7	8.9	13.2	4.1	18.0	1.7	13.7
50 percent or more	-	0.1	-	0.1	0.3	0.1	0.2	0.2	0.2	0.5

Note: Metropolitan service areas include at least one metropolitan county.

considered adequate service areas. Areas with 25-49 percent of stays occurring outside the service area are not as well-defined, but still provide the majority of hospital care for their residents. Areas with 50 percent or more of stays outside the service area are problematic, as a majority of stays by residents are occurring outside the area. A similar classification for travel into the service area for hospital stays has also been made. The proportion of the population residing in areas with adequate, fair, and poor degrees of self-containment are also shown in table E.

In the 800-linked and 800-unlinked solutions, 62 and 66 percent of areas, respectively, had less than 25 percent

of routine Medicare stays occurring outside the areas in 1988 and less than 1 percent of the areas in these 2 solutions had a majority of stays outside the service area. In contrast, 56 percent of the HCCAs had less than 25 percent of stays outside the area and 6 percent of the HCCAs had a majority of stays outside the area. However, the proportion of the population residing in the most self-contained areas was similar for the 800-area solutions and the HCCAs (93-94 percent).

Both 800-area solutions had few routine Medicare stays occurring in the areas by nonresidents. Although the proportion of HCCAs with fewer than 25 percent nonresident

Table G. Percent of short-stay hospital stays outside area of residence by age, type of county, and type of area: United States, 1989
 [Data are for the coterminous United States]

Age and type of county of residence	Number of stays in sample	Type of area						County
		800 unlinked	800 linked	1400 unlinked	1400 linked	HCCA	HIS PSU	
Under 65 years of age		Percent of hospital stays						
All counties	8,770	18.6	15.3	22.3	18.2	14.8	19.5	33.4
Metropolitan	6,511	14.7	11.1	17.9	12.6	10.6	10.4	27.6
Large core	2,329	9.2	6.6	11.2	8.0	6.7	4.5	16.6
Large fringe.	1,321	16.9	9.0	24.8	11.4	8.2	7.1	43.1
Medium	2,210	16.9	14.1	18.7	15.3	13.5	15.0	28.7
Small.	651	20.8	20.6	23.9	21.5	18.6	20.9	28.5
Nonmetropolitan	2,259	30.6	28.1	35.8	35.4	27.9	48.0	51.3
Urban	766	25.7	23.3	28.9	28.9	21.9	31.6	32.7
Less urban	1,205	33.5	30.5	40.1	38.6	29.8	53.9	57.1
Rural	288	32.1	31.7	36.9	39.8	36.9	69.3	79.1
65 years of age and over		Percent of hospital stays						
All counties	3,321	16.2	13.5	18.9	16.4	14.1	20.0	29.5
Metropolitan	2,281	10.1	7.6	12.2	8.5	7.6	7.9	20.1
Large core	772	6.1	4.5	7.0	5.7	4.6	4.4	11.3
Large fringe.	477	12.6	5.6	16.7	7.4	6.7	5.1	32.3
Medium	808	10.9	9.3	13.6	9.6	9.6	10.5	20.5
Small.	224	14.8	15.4	14.8	15.9	11.9	15.5	21.8
Nonmetropolitan	1,040	31.0	27.9	34.9	35.4	29.9	49.2	51.9
Urban	305	22.3	20.0	24.8	26.8	21.1	28.8	31.0
Less urban	621	35.2	31.2	40.1	38.6	32.9	56.4	58.4
Rural	114	31.2	31.3	34.0	41.3	37.8	65.1	73.0

Source: National Health Interview Survey, 1989

Table H. Percent of routine Medicare hospital stays outside area of residence, by type of county and type of area: United States, 1988
 [Data are for the coterminous United States]

Type of county of residence	Type of area						County
	800 unlinked	800 linked	1400 unlinked	1400 linked	HCCA	HIS PSU	
		Percent of hospital stays					
All counties	12.8	11.5	16.0	14.0	11.5	16.2	24.9
Metropolitan	9.3	7.3	11.5	8.3	7.1	7.1	18.4
Large core	7.0	5.1	8.8	5.9	5.1	4.1	12.9
Large fringe.	11.4	7.8	16.1	9.4	7.6	6.6	28.7
Medium	9.6	8.1	11.0	8.7	7.9	8.8	17.8
Small.	11.0	10.7	12.0	12.1	9.8	12.8	17.0
Nonmetropolitan	21.0	21.2	26.4	27.2	21.8	37.0	40.0
Urban	15.3	15.5	18.3	19.7	15.0	22.2	23.2
Less urban	22.1	22.3	28.7	29.2	23.2	39.8	42.5
Rural	29.7	29.6	35.9	36.4	31.7	59.4	68.0

stays was somewhat lower than for the two 800-area solutions (82 percent compared with 93 percent), the percent of the population residing in such areas was similar for the HCCAs and the 800-area solutions (96–98 percent).

The 1400-linked and 1400-unlinked solutions had 40–42 percent of areas with fewer than 25 percent of 1988 routine Medicare stays occurring outside service areas. In contrast, only 29 percent of HIS PSUs and 23 percent of counties had fewer than 25 percent of stays outside the area. The population residing in adequate service areas represented 89 percent of the population for the 1400-

linked solution and 85 percent of the population for the 1400-unlinked solution. The comparable population proportions for HIS PSUs and counties were much lower, 69 percent and 65 percent, respectively.

Table F compares travel patterns for routine hospital stays by Medicare beneficiaries for metro and nonmetro service areas. These results show that metropolitan areas exhibited less outside-area travel than nonmetropolitan areas. The vast majority of metropolitan service areas (80–98 percent across the 4 solutions) had less than 25 percent of stays outside the area of residence. In contrast,

the majority of the nonmetropolitan service areas (54–65 percent across the 4 solutions) had 25–49 percent of stays outside the area of residence. The HCCAs showed a similar pattern.

Table G presents the percent of short-stay hospital stays outside the area of residence based on the 1989 National Health Interview Survey and compares travel patterns for persons under 65 years of age with those 65 years and over. Overall, the percent of hospital stays outside the area of residence was similar for both age groups for all four solutions, supporting the use of Medicare data to identify service areas that can also be used for those under 65 years of age. The greatest differences by age occurred for residents of metro counties where those under 65 years of age were somewhat more likely than older persons to travel outside the service areas (11–18 percent of stays for those under 65 years of age compared with 8–12 percent of stays for those over 65 years).

Table H presents results comparable to those shown in table G, based on the 1988 Medicare data. The percent of routine hospital stays by Medicare beneficiaries outside the area of residence was slightly lower than that for all hospital stays by persons 65 years of age and over based on the HIS (table G). This is consistent with the restriction of the Medicare data base to routine stays that are less likely

to require travel. Overall, the percent of routine Medicare hospital stays outside the area of residence ranged from 11.5 percent for the 800-linked solution to 16 percent for the 1400-unlinked solution. The percent of stays outside the area of residence was 11.5 percent for HCCAs and 16 percent for HIS PSUs. In contrast, 25 percent of routine Medicare hospital stays occurred outside the county of residence. The linked solutions yielded slightly less travel outside service areas than the unlinked solutions for large and medium metro counties. Among nonmetro counties, the linked and unlinked solutions were almost identical with respect to outside area travel. The percent of stays outside service areas for residents of nonmetro counties was 21 percent for both 800-area solutions and 26–27 percent for the 1400-area solutions. The 1400-area solutions yielded relatively high percents of stays outside service areas for residents of less urban and rural counties (29 percent and 36 percent, respectively). The comparable figures for the 800-area solutions were 22 percent and 30 percent. Although there was relatively little travel outside the HIS PSUs for residents of metro counties, the PSUs did not function well as service areas for nonmetro counties. For residents of nonmetro counties 37 percent of routine Medicare hospital stays occurred outside the PSU of residence, about the same as for counties.

Summary

Health service areas were identified for the coterminous United States on the basis of travel patterns between counties by Medicare beneficiaries for routine hospital care. We used agglomerative hierarchical cluster analysis and the average linkage method to group counties into service areas. Four alternative solutions were generated that differed with respect to the number of areas and whether or not counties within an MSA were linked within the same service area.

The results showed that all four alternative solutions produced service areas that were adequate for the majority of the U.S. population. However, the 800-area solutions were more successful than the 1400-area solutions in the less populated areas of the country that are of particular interest in studying availability of health care resources. Thus, the 800-area solutions are preferable to the 1400-area solutions. The 800-linked and 800-unlinked solutions differ in the following respects. The 800-linked areas do not split MSAs into more than one service area, are less likely to include more than one MSA, and more likely to have no MSAs. The 800-unlinked areas split 63 MSAs into 2 or more service areas, are more likely to link a nonmetro county with a metro county, and have a more uniform distribution of number of counties per area.

Uniformity of size is a desirable characteristic in using the areas for small area analysis in health services research. Thus, although the 800-linked solution may be preferable for certain uses, the 800-unlinked solution appears to be the preferred solution for most applications.

Comparison of the new health service areas to the HIS PSUs, geographic units that have been used to approximate service areas (3), showed that the HIS PSUs are just as self-contained as the new service areas in metropolitan areas. However, the HIS PSUs do not perform well as service areas for nonmetropolitan counties. This is not surprising because the HIS PSUs consist of complete MSAs in metropolitan areas, but are often only single counties in nonmetropolitan areas.

Despite the fact that the HCCAs are based on data that are now 20 years old, the percent of short-stay hospital stays outside the HCCAs was similar to that for the new 800-unlinked service areas. The HCCAs were less self-contained than the new areas for nonmetropolitan service areas with small populations. Although the service areas for specific counties, particularly in nonmetropolitan areas, may have changed, the picture for the nation as a whole is that service areas appear to be fairly stable over time.

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Appendix I

Alternative distance measures

The following five alternative distance measures were considered for possible use in defining health service areas:

- A. $1 - F_{ij}/C_j$ if $P_i > P_j$,
 $1 - F_{ji}/C_i$ otherwise.
- B. $1 - (F_{ij} + F_{ji}) / (C_i + C_j)$
- C. $1 - F_{ij} / (C_j - H_j)$ if $P_j > P_i$,
 $1 - F_{ji} / (C_i - H_i)$ otherwise.
- D. $1 - (F_{ij} + F_{ji}) / (C_i + C_j - H_i - H_j)$
- E. $1 - (F_{ij} + F_{ji}) / C_j$ if $P_i > P_j$,
 $1 - (F_{ij} + F_{ji}) / C_i$ otherwise.

See page 4 for definitions of F , C , P , and H .

All five measures contain a ratio of the flow of services between two counties and the consumption of services in one or both counties. The ratios are subtracted from 1 so that the distance measures are larger for pairs of counties with less interaction. All five measures range from 0 to 1. Three of the five measures take into account the relative size of the two counties, as measured by production of services.

Distance A relates the flow of demand for services to the larger county from the smaller to the total consumption of services by residents in the smaller county, that is, the proportion of total services used by residents of the smaller county that are provided by hospitals in the larger county. Distance B relates the sum of flow between two counties to the total consumption of services by the residents of both counties. Distance measures C and D are

similar to A and B, respectively, except that the home consumption of services is excluded from the denominator. Distance E relates the sum of flow between two counties to the consumption of services by the residents in the smaller county. Distance E is the measure used by the U.S. Department of Agriculture to define Labor Market Areas.

Measures B, C, and D have some undesirable properties. Measure B is often close to 1 because the total flow between two counties (the numerator) will often be quite small in relation to the total consumption of services by residents of both counties (the denominator). Distance measures C and D only take into account consumption which takes place outside the county of residence. Thus, the total demand for health care affects these measures much less than the other measures. As a result, a county that is practically self-supporting with an insignificant number of occurrences in other counties could be clustered with an adjacent county, rather than a smaller county that is dependent on services in neighboring counties.

Of these five measures, A and E appear to make the most sense. It follows from the definitions that E assumes values less than or equal to A. If there is no patient flow from the larger to the smaller county, E will equal A, and the difference between A and E will increase with increasing patient flow from larger to smaller counties. Measure A has the advantage that it is a proportion and that it emphasizes the most important direction of flow, from a smaller to a larger county. However, measure A has the disadvantage that it ignores patient flow from a larger to a smaller county, even when two counties are similar in size.

Appendix II

Maps of health service areas for the 800-area unlinked solution

Figure I. Health service areas in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut

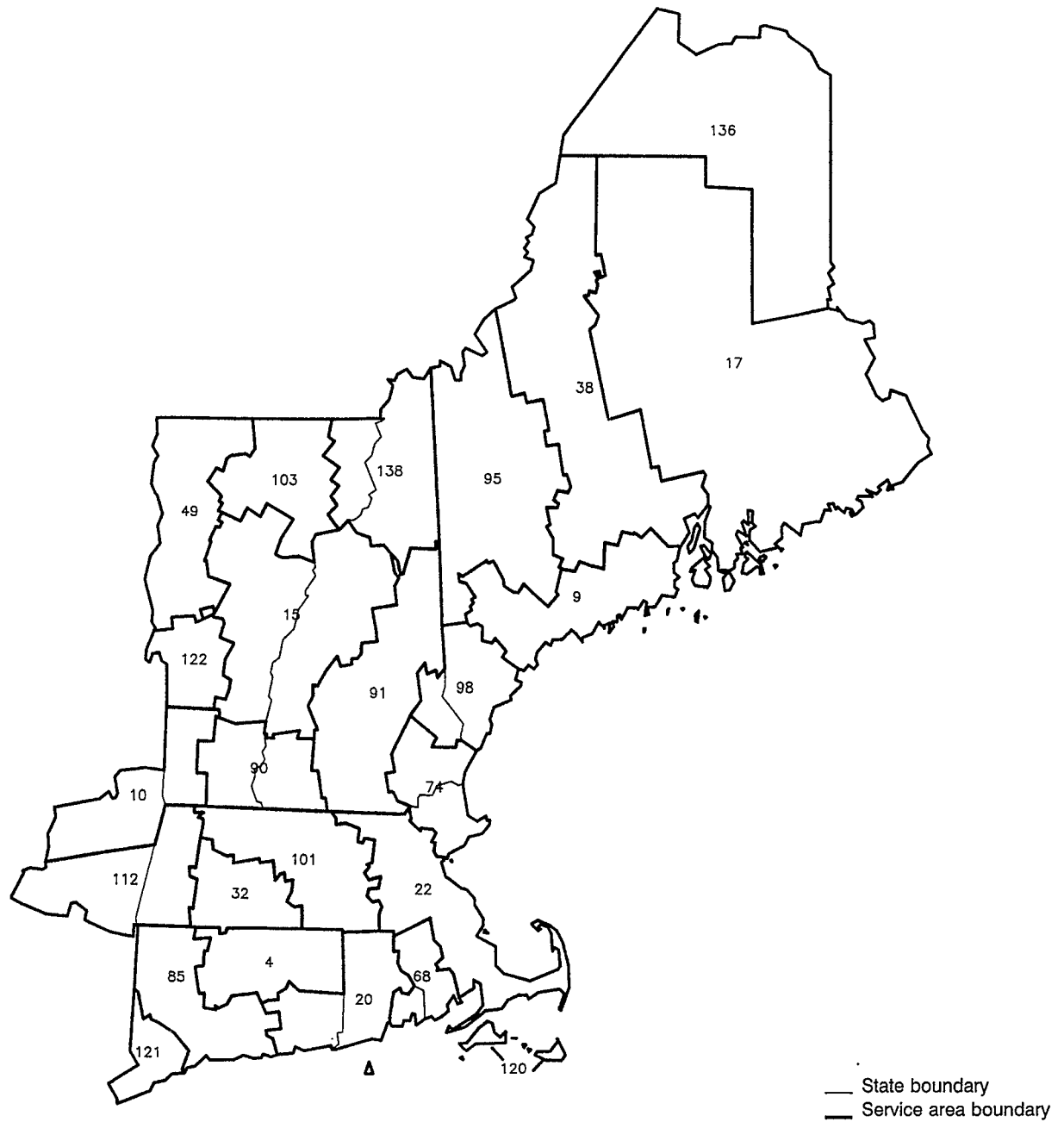
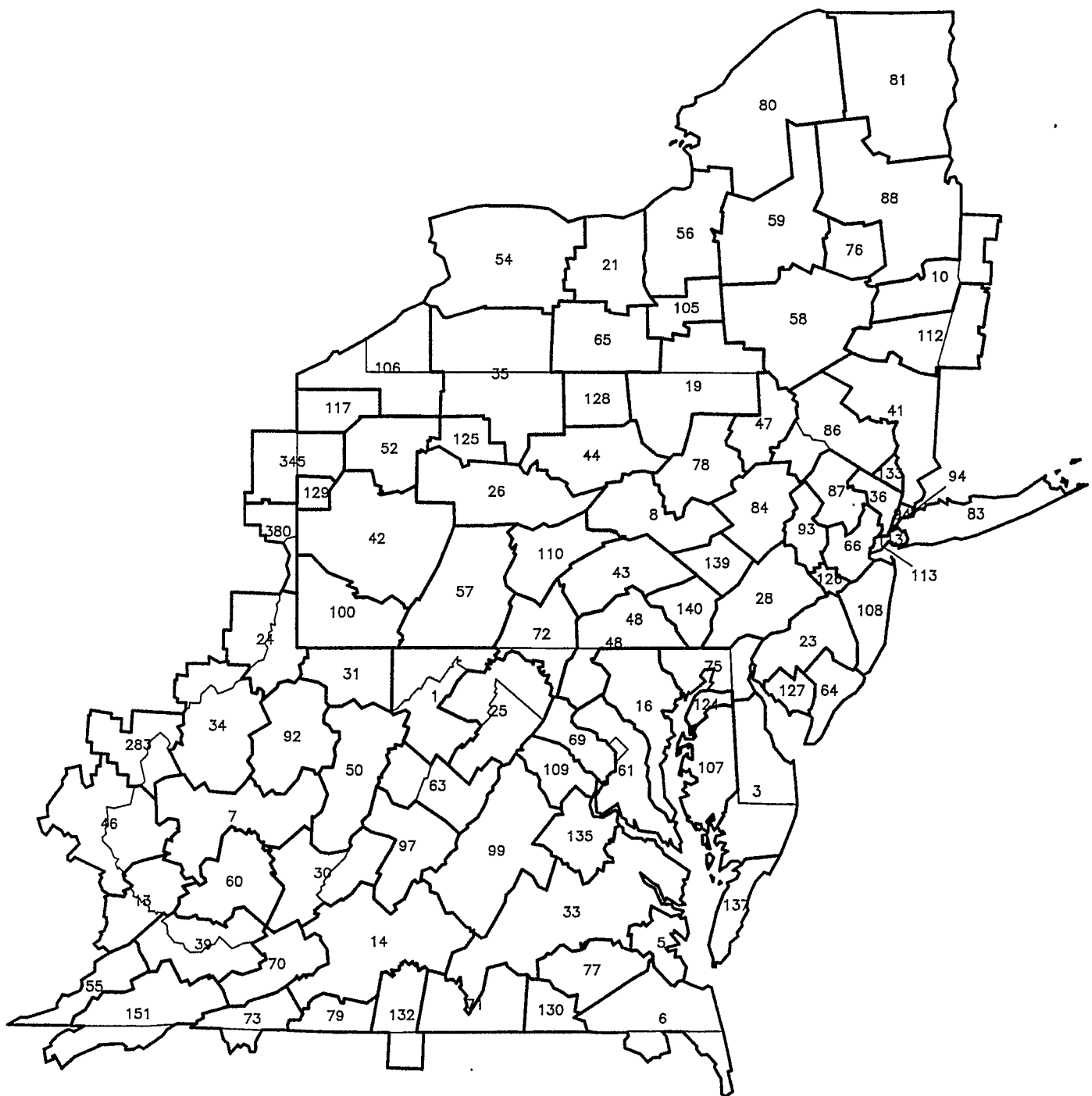


Figure II. Health service areas in New York, New Jersey, Pennsylvania, Delaware, Maryland, Washington, DC, Virginia, and West Virginia



— State boundary
— Service area boundary

Figure III. Health service areas in Ohio, Indiana, Illinois, Michigan, and Wisconsin

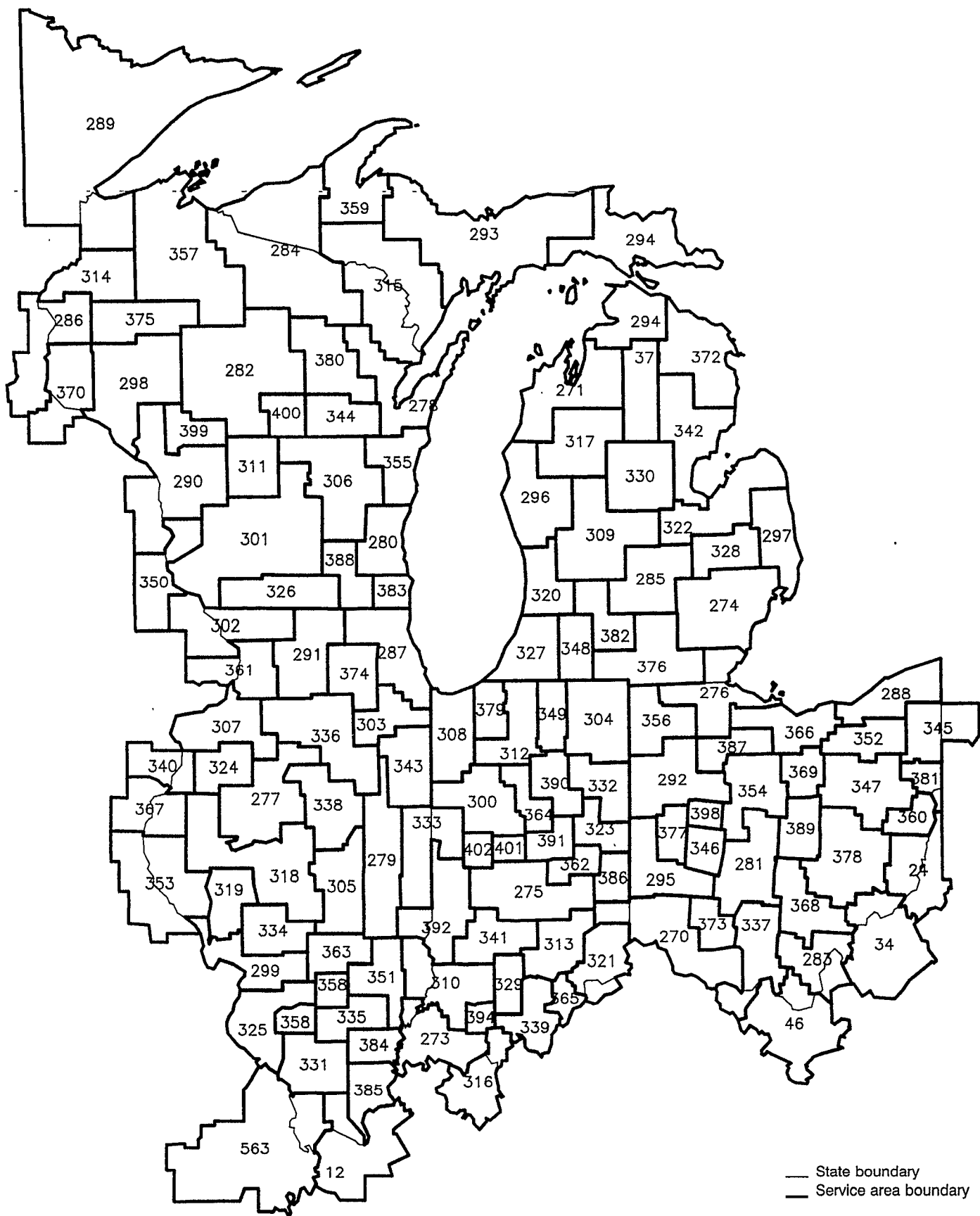


Figure IV. Health service areas in Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas

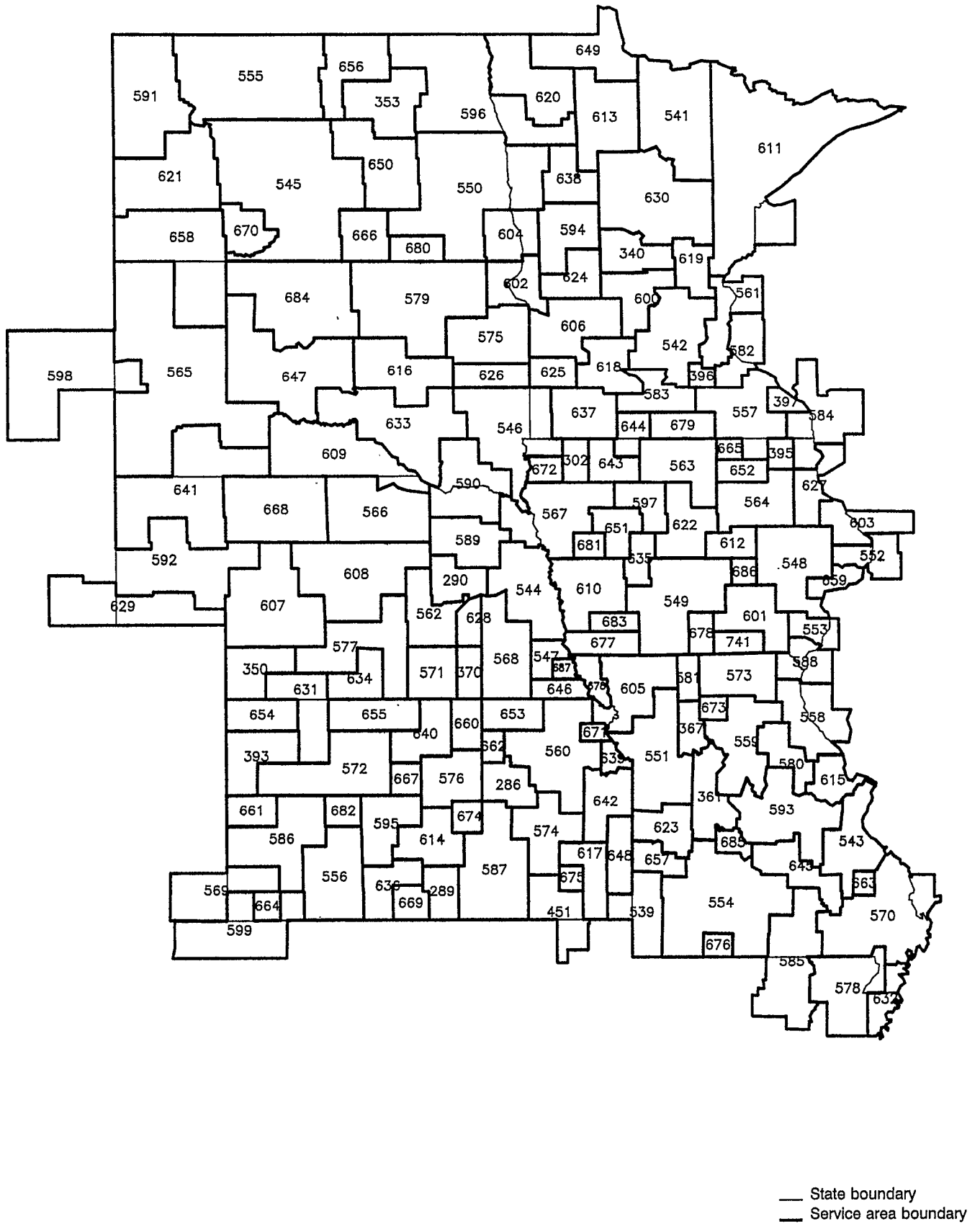


Figure V. Health service areas in North Carolina, South Carolina, Georgia, and Florida

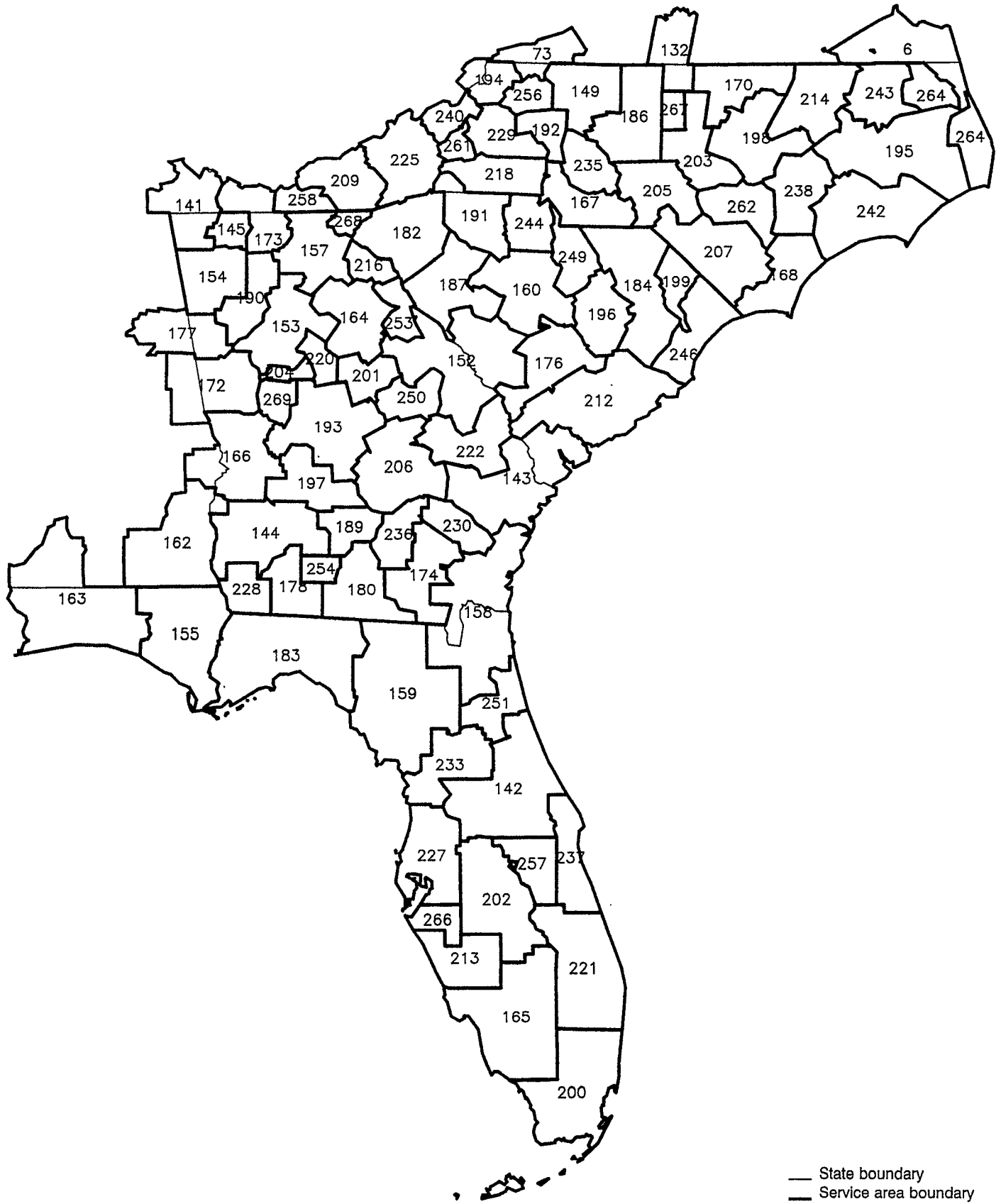
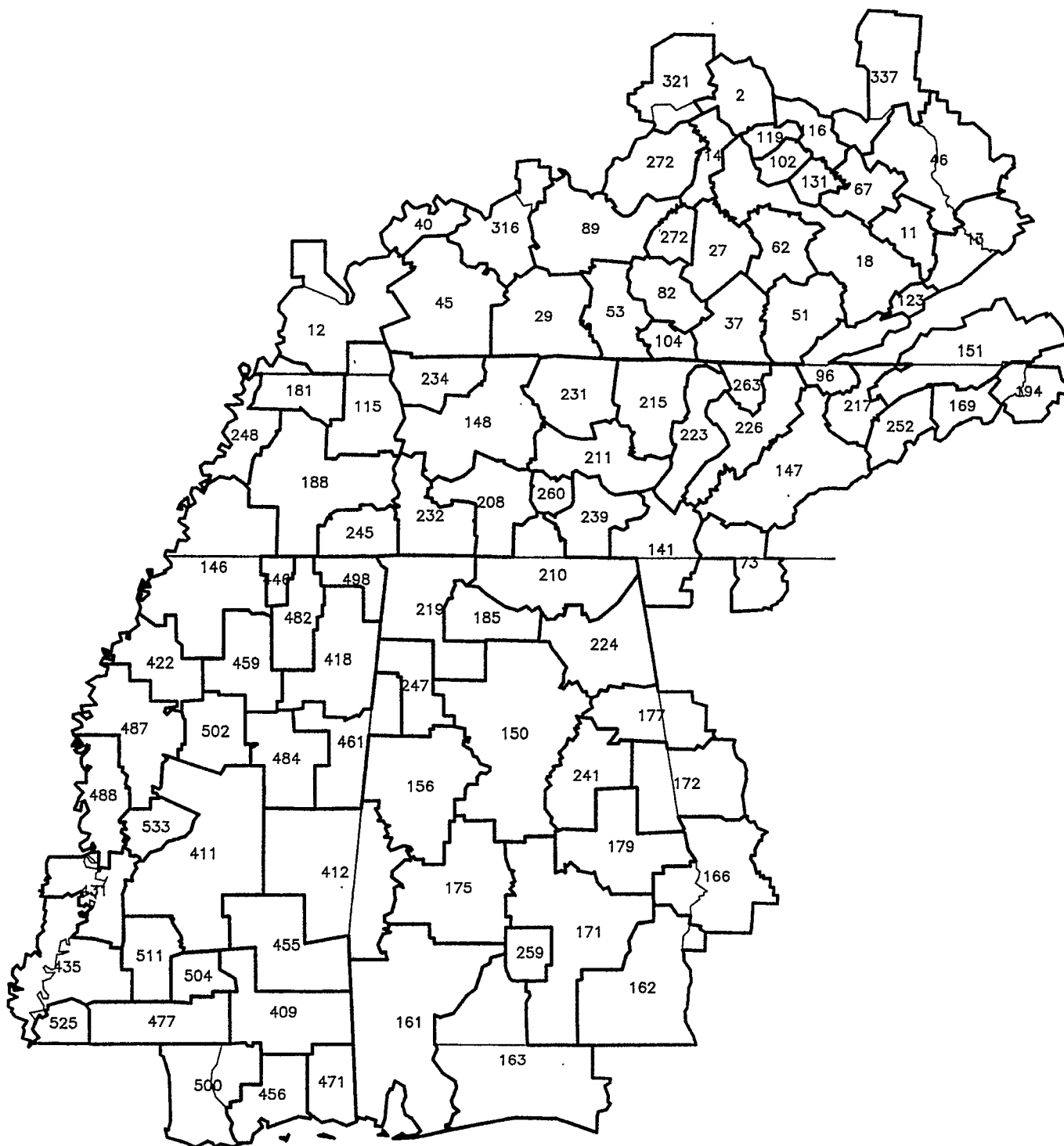
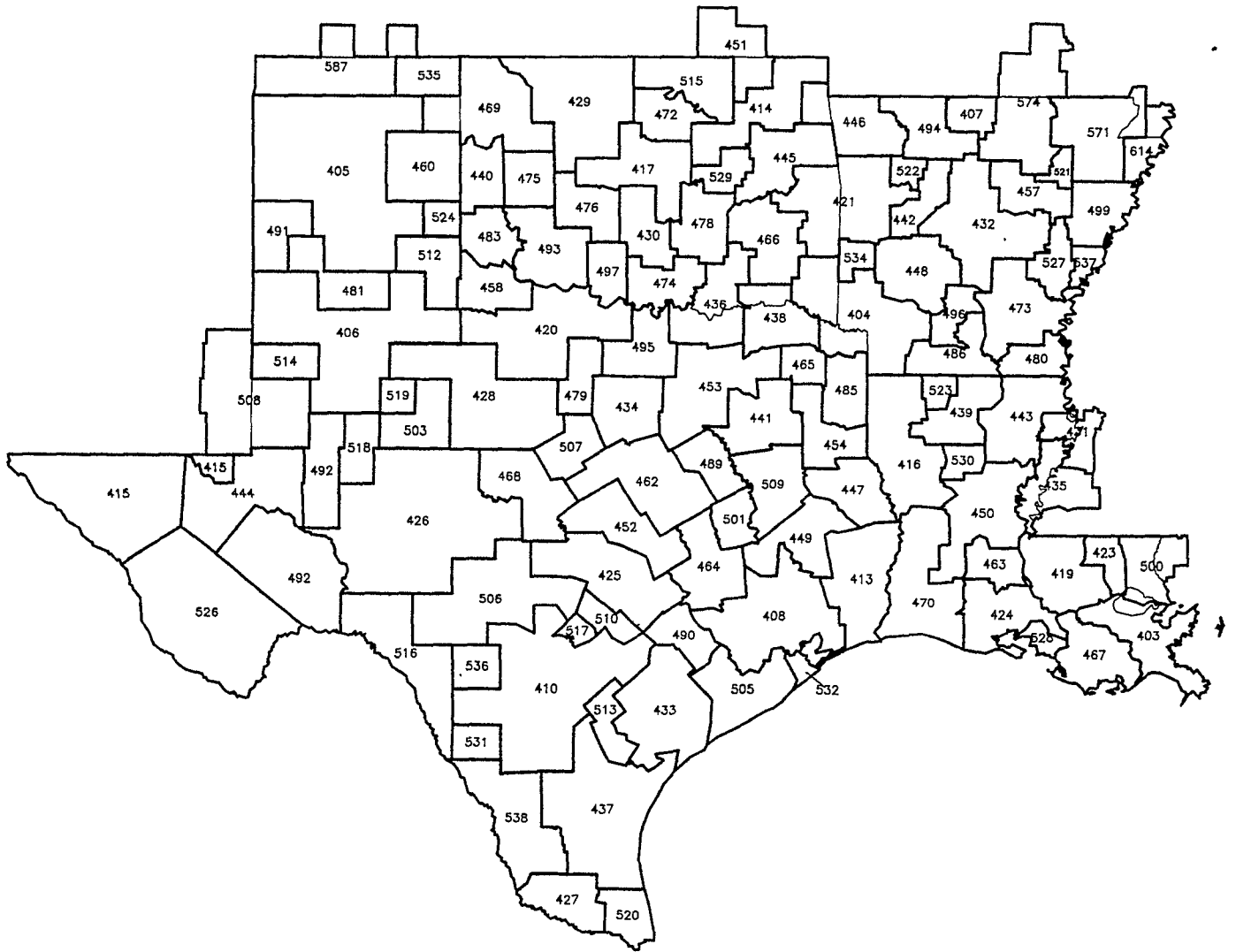


Figure VI. Health service areas in Kentucky, Tennessee, Alabama, and Mississippi



— State boundary
— Service area boundary

Figure VII. Health service areas in Arkansas, Louisiana, Oklahoma, and Texas



— State boundary
— Service area boundary

Figure VIII. Health service areas in Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, and Nevada

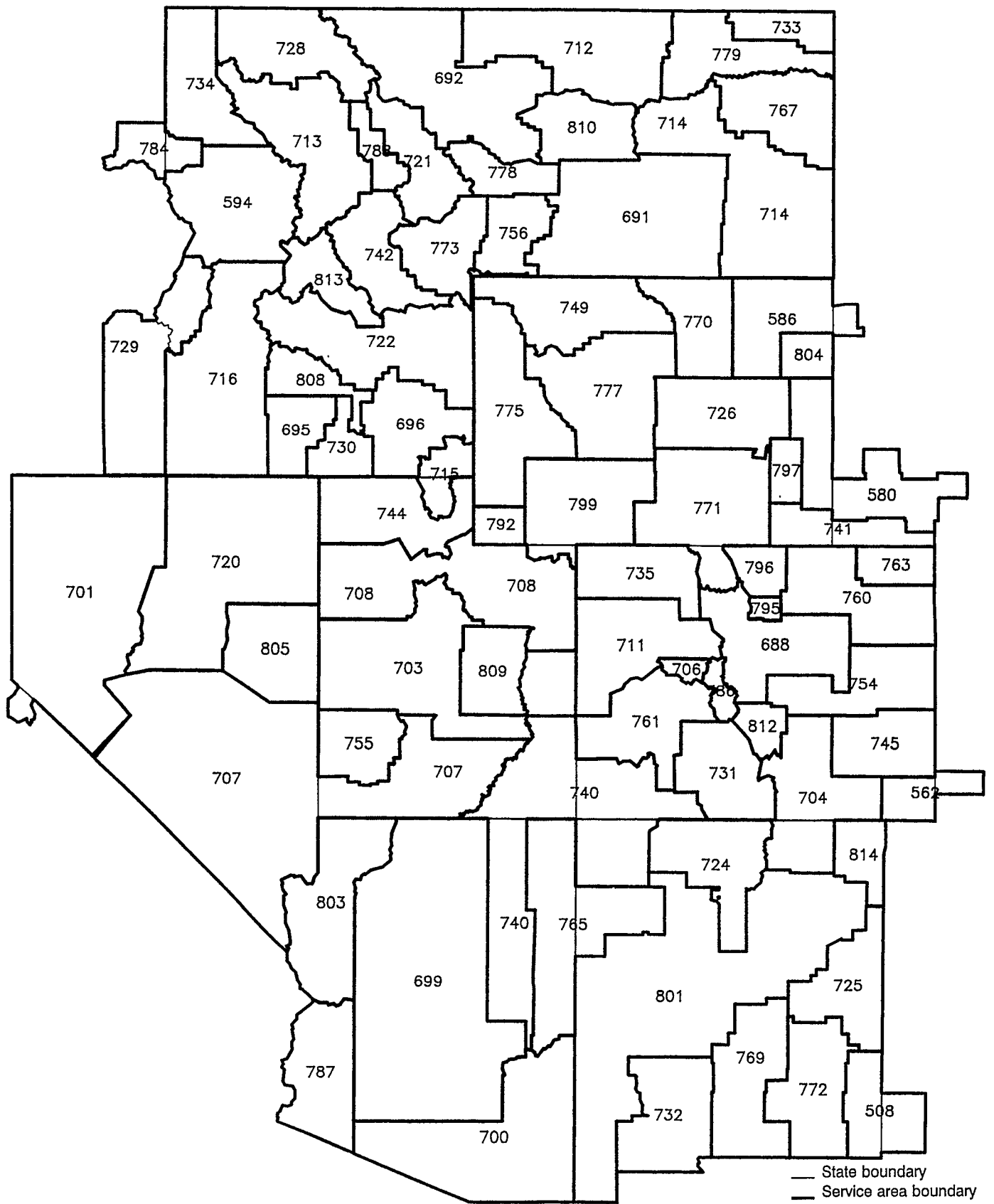
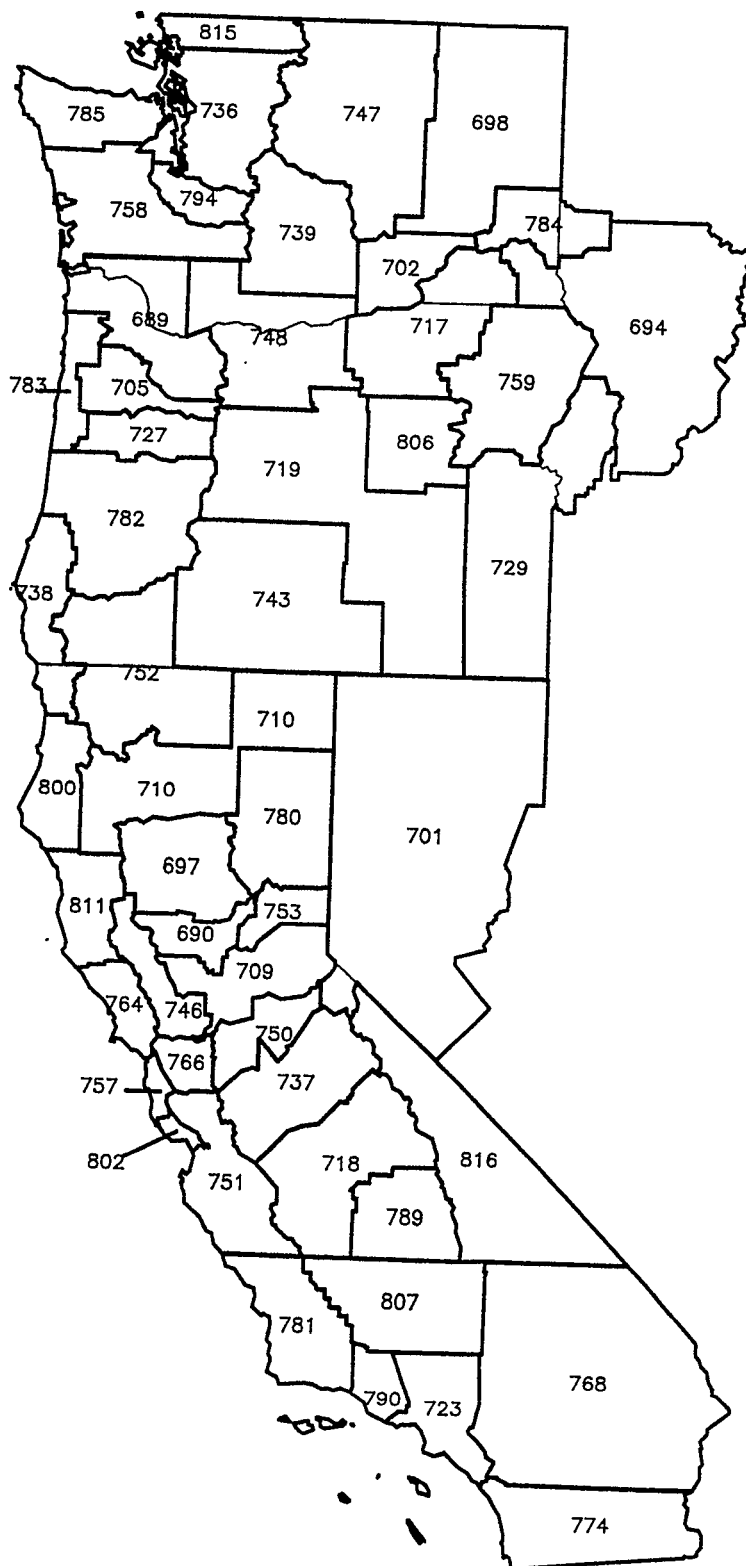


Figure IX. Health service areas in Washington, Oregon, and California



— State boundary
— Service area boundary

Appendix III

Listings of health service areas

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
AL	Autauga	171	274	138	231	AL	Washington	161	264	145	238
AL	Baldwin	161	409	145	238	AL	Wilcox	175	278	158	251
AL	Barbour	162	411	147	374	AL	Winston	219	347	195	344
AL	Bibb	150	395	148	241	AR	Arkansas	527	910	411	859
AL	Blount	150	396	148	241	AR	Ashley	480	766	469	746
AL	Bullock	171	274	138	231	AR	Baxter	407	686	393	665
AL	Butler	259	458	253	445	AR	Benton	446	802	436	784
AL	Calhoun	177	280	161	254	AR	Boone	494	788	483	765
AL	Chambers	172	406	155	392	AR	Bradley	473	757	461	736
AL	Cherokee	224	338	201	299	AR	Calhoun	486	777	474	755
AL	Chilton	150	252	148	241	AR	Carroll	494	788	483	765
AL	Choctaw	412	691	396	377	AR	Chicot	480	766	469	746
AL	Clarke	161	264	145	238	AR	Clark	448	729	438	711
AL	Clay	241	372	223	341	AR	Clay	571	982	557	958
AL	Cleburne	177	280	161	254	AR	Cleburne	457	738	444	717
AL	Coffee	162	265	147	240	AR	Cleveland	473	757	461	736
AL	Colbert	219	332	195	291	AR	Columbia	486	777	474	755
AL	Conecuh	163	329	180	274	AR	Conway	432	849	411	682
AL	Coosa	241	372	223	342	AR	Craighead	571	723	557	704
AL	Covington	171	360	216	320	AR	Crawford	421	700	409	680
AL	Crenshaw	171	360	216	320	AR	Crittenden	499	794	399	670
AL	Cullman	150	397	148	414	AR	Cross	499	794	399	775
AL	Dale	162	265	147	240	AR	Dallas	496	791	485	767
AL	Dallas	175	278	158	251	AR	Desha	473	858	461	845
AL	DeKalb	224	366	201	331	AR	Drew	473	757	461	736
AL	Elmore	179	282	138	231	AR	Faulkner	432	711	411	682
AL	Escambia	163	329	180	274	AR	Franklin	421	700	409	680
AL	Etowah	224	338	201	299	AR	Fulton	574	977	575	954
AL	Fayette	247	379	229	369	AR	Garland	448	729	438	711
AL	Franklin	219	347	195	291	AR	Grant	432	711	411	682
AL	Geneva	162	265	147	240	AR	Greene	571	982	557	958
AL	Greene	156	258	142	235	AR	Hempstead	404	740	427	699
AL	Hale	156	258	142	235	AR	Hot Spring	448	862	411	820
AL	Henry	162	265	147	240	AR	Howard	404	880	427	849
AL	Houston	162	265	147	240	AR	Independence	574	958	560	936
AL	Jackson	210	445	237	429	AR	Izard	574	958	560	936
AL	Jackson	150	252	148	241	AR	Jackson	521	904	515	891
AL	Jefferson	461	743	450	361	AR	Jefferson	473	757	461	736
AL	Lamar	219	332	195	291	AR	Johnson	522	905	516	892
AL	Lauderdale	185	288	169	262	AR	Lafayette	404	683	427	699
AL	Lawrence	179	282	138	304	AR	Lawrence	571	723	557	704
AL	Lee	210	320	194	290	AR	Lee	499	794	399	775
AL	Limestone	171	274	138	231	AR	Lincoln	473	757	461	736
AL	Lowndes	179	282	138	231	AR	Little River	404	683	427	699
AL	Macon	210	320	194	290	AR	Logan	421	700	409	680
AL	Madison	175	404	158	391	AR	Lonoke	432	711	411	682
AL	Marengo	247	379	229	370	AR	Madison	446	727	436	709
AL	Marion	224	366	201	332	AR	Marion	407	686	393	665
AL	Marshall	161	264	145	238	AR	Miller	404	683	427	699
AL	Mobile	161	449	145	419	AR	Mississippi	614	1010	598	983
AL	Monroe	171	274	138	231	AR	Monroe	527	910	411	859
AL	Montgomery	185	288	169	262	AR	Montgomery	448	729	438	711
AL	Morgan	175	278	158	251	AR	Nevada	404	740	427	699
AL	Perry	156	391	142	235	AR	Newton	494	788	483	765
AL	Pickens	171	274	235	427	AR	Ouachita	496	791	485	767
AL	Pike	172	407	155	393	AR	Perry	432	711	411	682
AL	Randolph	166	269	153	246	AR	Phillips	537	920	525	901
AL	Russell	150	252	148	241	AR	Pike	448	729	438	711
AL	Shelby	150	252	148	241	AR	Poinsett	571	723	557	704
AL	St. Clair	150	252	148	241	AR	Polk	534	917	501	877
AL	Sumter	412	691	396	668	AR	Pope	442	722	430	702
AL	Talladega	241	372	223	342	AR	Prairie	432	711	411	682
AL	Tallapoosa	179	282	138	304	AR	Pulaski	432	711	411	682
AL	Tuscaloosa	156	258	142	235						
AL	Walker	150	441	148	241						

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions—Con.

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
AR	Randolph	571	723	557	704	CA	Santa Clara	751	1268	736	1248
AR	Saline	432	711	411	682	CA	Santa Cruz	802	1403	790	1389
AR	Scott	421	887	409	811	CA	Shasta	710	1223	696	1204
AR	Searcy	494	788	483	765	CA	Sierra	753	1270	738	1250
AR	Sebastian	421	700	409	680	CA	Siskiyou	752	1373	737	1359
AR	Sevier	404	747	427	727	CA	Solano	746	1262	750	1266
AR	Sharp	574	958	560	936	CA	Sonoma	764	1284	754	1293
AR	St. Francis	499	794	399	775	CA	Stanislaus	737	1312	723	1302
AR	Stone	574	854	560	841	CA	Sutter	690	1202	731	1272
AR	Union	486	777	474	755	CA	Tehama	697	1350	684	1337
AR	Van Buren	432	711	411	682	CA	Trinity	710	1223	696	1204
AR	Washington	446	727	436	709	CA	Tulare	789	1390	777	1376
AR	White	457	738	444	717	CA	Tuolumne	737	1368	735	1346
AR	Woodruff	457	738	444	717	CA	Ventura	790	1391	778	1377
AR	Yell	442	722	430	702	CA	Yolo	709	1222	731	1242
						CA	Yuba	690	1202	731	1272
AZ	Apache	765	1285	747	1263	CO	Adams	688	1200	691	1199
AZ	Cochise	700	1213	687	1195	CO	Alamosa	731	1245	718	1228
AZ	Coconino	699	1241	686	1224	CO	Arapahoe	688	1200	691	1199
AZ	Gila	699	1212	686	1194	CO	Archuleta	740	1292	726	1278
AZ	Graham	700	1327	687	1315	CO	Baca	562	1386	547	1372
AZ	Greenlee	700	1327	687	1315	CO	Bent	745	1261	730	1241
AZ	Maricopa	699	1212	686	1194	CO	Boulder	795	1396	784	1383
AZ	Mohave	803	1404	764	1339	CO	Chaffee	786	1383	771	1369
AZ	Navajo	740	1255	726	1236	CO	Cheyenne	754	1381	691	1334
AZ	Pima	700	1213	687	1195	CO	Clear Creek	688	1200	691	1199
AZ	Pinal	699	1212	686	1194	CO	Conejos	731	1245	718	1228
AZ	Santa Cruz	700	1213	687	1195	CO	Costilla	731	1245	718	1228
AZ	Yavapai	699	1241	686	1224	CO	Crowley	745	1261	730	1241
AZ	Yuma	787	1388	775	1374	CO	Custer	812	1413	794	1393
CA	Alameda	766	1286	750	1365	CO	Delta	761	1377	744	1363
CA	Alpine	701	1265	688	1245	CO	Denver	688	1200	691	1199
CA	Amador	750	1335	731	1242	CO	Dolores	740	1293	726	1279
CA	Butte	697	1210	684	1192	CO	Douglas	688	1200	691	1199
CA	Calaveras	750	1267	735	1247	CO	Eagle	711	1224	697	1205
CA	Colusa	690	1367	731	1273	CO	El Paso	754	1271	691	1251
CA	Contra Costa	766	1286	750	1365	CO	Elbert	688	1200	691	1199
CA	Del Norte	738	1252	724	1234	CO	Fremont	812	1413	794	1393
CA	El Dorado	709	1334	731	1242	CO	Garfield	711	1224	697	1205
CA	Fresno	718	1231	704	1212	CO	Gilpin	688	1200	691	1199
CA	Glenn	697	1210	684	1192	CO	Grand	688	1200	691	1199
CA	Humboldt	800	1401	789	1388	CO	Gunnison	761	1280	744	1259
CA	Imperial	774	1309	756	1299	CO	Hinsdale	761	1280	744	1259
CA	Inyo	816	1419	803	1403	CO	Huerfano	704	1217	690	1198
CA	Kern	807	1408	799	1398	CO	Jackson	771	1295	752	1281
CA	Kings	718	1329	704	1317	CO	Jefferson	688	1200	691	1199
CA	Lake	746	1362	750	1266	CO	Kiowa	745	1261	730	1241
CA	Lassen	780	1342	763	1329	CO	Kit Carson	754	1346	691	1404
CA	Los Angeles	723	1236	710	1219	CO	La Plata	740	1292	726	1278
CA	Madera	718	1231	704	1212	CO	Lake	786	1384	772	1370
CA	Marin	764	1284	754	1292	CO	Larimer	796	1397	785	1384
CA	Mariposa	737	1251	723	1233	CO	Las Animas	704	1308	690	1297
CA	Mendocino	811	1412	770	1368	CO	Lincoln	754	1271	691	1251
CA	Merced	737	1251	723	1233	CO	Logan	763	1283	746	1262
CA	Modoc	710	1361	696	1351	CO	Mesa	711	1224	697	1205
CA	Mono	816	1419	803	1403	CO	Mineral	731	1338	718	1325
CA	Monterey	751	1385	773	1371	CO	Moffat	735	1249	722	1232
CA	Napa	746	1262	750	1266	CO	Montezuma	740	1293	726	1279
CA	Nevada	753	1270	738	1250	CO	Montrose	761	1280	744	1259
CA	Orange	723	1379	710	1366	CO	Morgan	760	1279	743	1258
CA	Placer	709	1222	731	1242	CO	Otero	745	1261	730	1241
CA	Plumas	780	1343	763	1330	CO	Ouray	761	1280	744	1259
CA	Riverside	768	1288	764	1338	CO	Park	688	1200	691	1199
CA	Sacramento	709	1222	731	1242	CO	Phillips	763	1283	746	1262
CA	San Benito	751	1268	736	1248	CO	Pitkin	711	1339	697	1326
CA	San Bernardino	768	1288	764	1338	CO	Prowers	745	1378	730	1364
CA	San Diego	774	1310	756	1298	CO	Pueblo	704	1217	690	1198
CA	San Francisco	757	1275	754	1292	CO	Rio Blanco	711	1224	697	1205
CA	San Joaquin	750	1267	735	1247	CO	Rio Grande	731	1338	718	1325
CA	San Luis Obispo	781	1355	765	1345	CO	Routt	735	1249	722	1232
CA	San Mateo	757	1275	754	1292	CO	Saguache	731	1338	718	1325
CA	Santa Barbara	781	1356	765	1344	CO	San Juan	740	1292	726	1278

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions—Con.

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
CO	San Miguel	761	1280	744	1259	FL	Pasco	227	343	240	432
CO	Sedgwick	763	1328	746	1316	FL	Pinellas	227	413	240	432
CO	Summit	688	1200	691	1199	FL	Polk	202	312	188	284
CO	Teller	754	1271	691	1251	FL	Putnam	251	420	146	407
CO	Washington	760	1294	743	1280	FL	Santa Rosa	163	266	180	274
CO	Weld	760	1279	743	1258	FL	Sarasota	213	323	196	327
CO	Yuma	760	1349	743	1336	FL	Seminole	142	244	215	318
CT	Fairfield	121	223	116	209	FL	St. Johns	251	421	139	232
CT	Hartford	4	5	62	161	FL	St. Lucie	221	335	226	395
CT	Litchfield	85	97	62	65	FL	Sumter	265	464	215	318
CT	Middlesex	85	180	62	161	FL	Suwannee	159	302	133	275
CT	New Haven	85	97	62	66	FL	Taylor	183	286	166	259
CT	New London	20	104	95	188	FL	Union	159	261	133	226
CT	Tolland	4	5	62	161	FL	Volusia	142	263	146	239
CT	Windham	4	5	95	188	FL	Wakulla	183	286	166	259
DC	The District	61	78	16	16	FL	Walton	163	295	177	270
DE	Kent	3	57	37	37	FL	Washington	155	325	141	294
DE	New Castle	75	168	101	194	GA	Appling	230	349	208	311
DE	Sussex	3	57	37	37	GA	Atkinson	236	363	217	322
FL	Alachua	159	261	133	226	GA	Bacon	174	277	157	371
FL	Baker	158	260	139	232	GA	Baker	144	246	135	228
FL	Bay	155	257	141	234	GA	Baldwin	201	311	187	283
FL	Bradford	159	261	133	226	GA	Banks	157	259	143	236
FL	Brevard	237	364	218	325	GA	Barrow	164	267	134	227
FL	Broward	200	432	186	415	GA	Bartow	154	387	140	380
FL	Calhoun	155	356	213	316	GA	Ben Hill	189	292	174	267
FL	Charlotte	213	323	196	292	GA	Berrien	180	344	164	305
FL	Citrus	233	355	212	315	GA	Bibb	193	300	178	271
FL	Clay	158	260	139	232	GA	Bleckley	193	339	178	300
FL	Collier	165	418	152	399	GA	Brantley	158	305	139	277
FL	Columbia	159	302	133	275	GA	Brooks	180	283	164	257
FL	Dade	200	310	186	282	GA	Bryan	143	245	150	243
FL	De Soto	213	323	196	292	GA	Bulloch	222	336	200	298
FL	Dixie	159	261	133	226	GA	Burke	152	428	149	396
FL	Duval	158	260	139	232	GA	Butts	204	314	134	227
FL	Escambia	163	266	180	274	GA	Calhoun	144	342	135	303
FL	Flagler	142	263	146	239	GA	Camden	158	305	139	277
FL	Franklin	183	286	166	259	GA	Candler	222	336	200	298
FL	Gadsden	183	286	166	259	GA	Carroll	177	299	161	272
FL	Gilchrist	159	261	133	226	GA	Catoosa	141	243	182	278
FL	Glades	165	268	152	245	GA	Charlton	158	383	139	232
FL	Gulf	155	257	141	234	GA	Chatham	143	245	150	243
FL	Hamilton	255	454	243	435	GA	Chattahoochee	166	269	153	246
FL	Hardee	202	312	188	284	GA	Chattooga	154	256	140	233
FL	Hendry	165	268	152	245	GA	Cherokee	190	293	134	227
FL	Hernando	227	343	240	432	GA	Clarke	164	267	163	256
FL	Highlands	202	312	188	284	GA	Clay	144	342	135	303
FL	Hillsborough	227	452	240	432	GA	Clayton	153	294	134	227
FL	Holmes	155	325	141	294	GA	Clinch	174	429	157	412
FL	Indian River	237	364	218	326	GA	Cobb	190	297	134	227
FL	Jackson	155	356	213	316	GA	Coffee	236	363	217	322
FL	Jefferson	183	286	166	259	GA	Colquitt	254	453	247	439
FL	Lafayette	159	261	133	226	GA	Columbia	152	254	149	242
FL	Lake	265	464	215	318	GA	Cook	180	283	164	257
FL	Lee	165	268	152	245	GA	Coweta	172	275	134	227
FL	Leon	183	286	166	259	GA	Crawford	193	300	178	271
FL	Levy	159	261	133	226	GA	Crisp	197	307	184	280
FL	Liberty	183	286	166	259	GA	Dade	141	243	182	278
FL	Madison	183	419	166	403	GA	Dawson	157	259	143	236
FL	Manatee	266	465	239	431	GA	De Kalb	153	255	134	227
FL	Marion	233	355	212	315	GA	Decatur	228	345	203	306
FL	Martin	221	335	226	395	GA	Dodge	206	384	190	378
FL	Monroe	200	310	186	282	GA	Dooley	197	307	184	280
FL	Nassau	158	260	139	232	GA	Dougherty	144	246	135	228
FL	Okaloosa	163	295	177	270	GA	Douglas	190	297	134	227
FL	Okeechobee	221	376	226	356	GA	Early	144	342	135	303
FL	Orange	142	244	215	318	GA	Echols	180	283	164	257
FL	Osceola	257	456	215	318	GA	Effingham	143	245	150	243
FL	Palm Beach	221	376	226	355	GA	Elbert	253	437	233	422
						GA	Emanuel	222	336	200	336
						GA	Evans	143	381	150	376
						GA	Fannin	173	276	156	249

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
GA	Fayette	153	294	134	227	GA	Sumter	197	346	205	308
GA	Floyd	154	256	140	233	GA	Talbot	166	269	153	246
GA	Forsyth	153	255	134	227	GA	Taliaferro	152	254	149	242
GA	Franklin	216	327	199	296	GA	Tattall	143	245	150	347
GA	Fulton	153	255	134	227	GA	Taylor	193	300	178	271
GA	Gilmer	173	446	134	386	GA	Telfair	206	316	190	286
GA	Glascocock	152	254	149	242	GA	Terrell	144	246	135	228
GA	Glynn	158	305	139	277	GA	Thomas	178	281	162	255
GA	Gordon	154	256	140	366	GA	Tift	189	292	174	267
GA	Grady	178	281	162	255	GA	Toombs	206	436	190	421
GA	Greene	164	422	163	256	GA	Towns	157	333	143	297
GA	Gwinnett	153	330	134	227	GA	Treutlen	206	316	190	286
GA	Habersham	157	259	143	330	GA	Troup	172	275	155	248
GA	Hall	157	259	143	236	GA	Turner	189	292	174	267
GA	Hancock	201	311	187	283	GA	Twiggs	193	300	178	271
GA	Haralson	177	299	161	272	GA	Union	157	333	143	297
GA	Harris	166	269	153	246	GA	Upson	269	468	257	449
GA	Hart	216	327	199	296	GA	Walker	141	243	182	278
GA	Heard	172	275	155	248	GA	Walton	153	330	134	227
GA	Henry	153	294	134	227	GA	Ware	174	277	157	250
GA	Houston	193	300	178	271	GA	Warren	152	254	149	242
GA	Irwin	189	292	174	267	GA	Washington	250	415	249	441
GA	Jackson	164	267	163	256	GA	Wayne	230	349	208	311
GA	Jasper	220	334	134	227	GA	Webster	166	269	153	246
GA	Jeff Davis	236	363	217	322	GA	Wheeler	206	316	190	286
GA	Jefferson	250	414	149	354	GA	White	157	259	143	236
GA	Jenkins	152	442	149	409	GA	Whitfield	145	247	136	229
GA	Johnson	206	316	190	286	GA	Wilcox	197	307	184	280
GA	Jones	193	300	178	271	GA	Wilkes	253	438	233	423
GA	Lamar	269	468	134	227	GA	Wilkinson	193	300	178	271
GA	Lanier	180	344	164	305	GA	Worth	144	246	135	228
GA	Laurens	206	316	190	286	IA	Adair	546	1023	608	994
GA	Lee	144	246	135	228	IA	Adams	647	1054	631	1027
GA	Liberty	143	245	150	243	IA	Allamakee	290	487	268	1131
GA	Lincoln	152	254	149	242	IA	Appanoose	649	1056	633	1038
GA	Long	143	245	150	243	IA	Audubon	596	1043	622	1014
GA	Lowndes	180	283	164	257	IA	Benton	545	928	528	904
GA	Lumpkin	157	259	143	236	IA	Black Hawk	557	942	548	925
GA	Macon	197	346	205	308	IA	Boone	606	999	589	1044
GA	Madison	164	267	163	256	IA	Bremer	557	942	548	925
GA	Marion	166	269	153	246	IA	Buchanan	557	942	548	925
GA	McDuffie	152	254	149	242	IA	Buena Vista	580	1121	530	1111
GA	McIntosh	158	305	139	277	IA	Butler	557	942	548	925
GA	Meriwether	172	275	155	248	IA	Calhoun	633	1034	617	1005
GA	Miller	228	345	203	364	IA	Carroll	633	1079	617	1070
GA	Mitchell	178	281	162	255	IA	Cass	596	1043	622	1014
GA	Monroe	193	398	178	271	IA	Cedar	545	928	528	904
GA	Montgomery	206	316	190	286	IA	Cerro Gordo	556	941	540	917
GA	Morgan	164	267	163	256	IA	Cherokee	560	1122	530	1112
GA	Murray	145	247	136	229	IA	Chickasaw	634	1035	618	1006
GA	Muscogee	166	269	153	246	IA	Clarke	546	929	529	1036
GA	Newton	220	334	134	227	IA	Clay	625	1024	609	995
GA	Oconee	164	267	163	256	IA	Clayton	350	1009	327	982
GA	Oglethorpe	164	267	163	256	IA	Clinton	361	557	336	529
GA	Paulding	190	297	134	227	IA	Crawford	681	1193	541	1107
GA	Peach	193	300	178	271	IA	Dallas	546	929	529	905
GA	Pickens	190	293	134	227	IA	Davis	649	1056	633	1039
GA	Pierce	174	277	157	250	IA	Decatur	546	1088	529	1079
GA	Pike	269	468	134	227	IA	Delaware	350	1009	327	982
GA	Polk	154	256	140	233	IA	Des Moines	340	998	588	971
GA	Pulaski	193	339	178	300	IA	Dickinson	625	1024	609	995
GA	Putnam	201	311	187	346	IA	Dubuque	302	512	287	949
GA	Quitman	162	411	147	374	IA	Emmet	626	1025	610	996
GA	Rabun	268	467	254	446	IA	Fayette	557	1078	548	925
GA	Randolph	144	410	135	397	IA	Floyd	634	1035	618	1006
GA	Richmond	152	254	149	242	IA	Franklin	556	941	540	917
GA	Rockdale	153	255	134	227	IA	Fremont	644	1051	541	1021
GA	Schley	166	269	153	246	IA	Greene	617	1013	601	986
GA	Screven	222	435	200	420	IA	Grundy	557	942	548	925
GA	Seminole	228	345	203	306	IA	Guthrie	617	1013	601	986
GA	Spalding	204	314	134	227	IA	Hamilton	606	999	589	972
GA	Stephens	216	386	199	379	IA	Hancock	556	941	540	917
GA	Stewart	166	269	153	246						

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
IA	Hardin	606	1173	653	1160	ID	Caribou	696	1357	683	1347
IA	Harrison	596	1090	541	918	ID	Cassia	730	1244	717	1227
IA	Henry	340	998	588	971	ID	Clark	722	1235	708	1217
IA	Howard	552	1126	535	1116	ID	Clearwater	694	1206	681	1188
IA	Humboldt	585	971	570	947	ID	Custer	722	1235	708	1217
IA	Ida	560	945	530	906	ID	Elmore	716	1302	702	1289
IA	Iowa	545	935	528	911	ID	Franklin	715	1228	701	1209
IA	Jackson	302	512	287	949	ID	Fremont	722	1235	708	1269
IA	Jasper	546	929	529	905	ID	Gem	716	1229	702	1210
IA	Jefferson	589	1059	635	1047	ID	Gooding	695	1207	682	1189
IA	Johnson	545	935	528	911	ID	Idaho	694	1278	681	1257
IA	Jones	545	928	528	904	ID	Jefferson	722	1235	708	1217
IA	Keokuk	589	975	573	952	ID	Jerome	695	1207	682	1189
IA	Kossuth	556	1118	540	1105	ID	Kootenai	734	1248	721	1231
IA	Lee	367	568	343	537	ID	Latah	784	1371	768	1357
IA	Linn	545	928	528	904	ID	Lemhi	813	1414	800	1399
IA	Louisa	545	935	528	911	ID	Lewis	694	1206	681	1188
IA	Lucas	645	1052	629	1022	ID	Lincoln	695	1207	682	1189
IA	Lyon	544	927	527	903	ID	Madison	722	1235	708	1269
IA	Madison	546	929	529	905	ID	Minidoka	730	1244	717	1227
IA	Mahaska	589	975	573	952	ID	Nez Perce	694	1206	681	1188
IA	Marion	546	1127	529	1115	ID	Oneida	696	1392	683	1378
IA	Marshall	679	1191	671	1178	ID	Owyhee	716	1365	702	1354
IA	Mills	596	986	541	918	ID	Payette	729	1243	716	1226
IA	Mitchell	665	1177	658	1165	ID	Power	696	1209	683	1191
IA	Monona	560	945	530	906	ID	Shoshone	734	1248	721	1231
IA	Monroe	589	1099	573	1090	ID	Teton	722	1369	708	1355
IA	Montgomery	647	1054	631	1028	ID	Twin Falls	695	1207	682	1189
IA	Muscatine	641	1048	282	625	ID	Valley	716	1229	702	1210
IA	O'Brien	652	1064	637	1055	ID	Washington	729	1243	716	1226
IA	Osceola	652	1065	637	1056	IL	Adams	353	548	329	521
IA	Page	644	1051	541	1021	IL	Alexander	563	948	549	926
IA	Palo Alto	625	1136	609	1124	IL	Bond	299	633	261	598
IA	Plymouth	560	1093	530	1085	IL	Boone	291	488	270	463
IA	Pocahontas	585	971	570	947	IL	Brown	318	515	298	492
IA	Polk	546	929	529	905	IL	Bureau	336	533	317	510
IA	Pottawattamie	596	986	541	918	IL	Calhoun	299	496	261	453
IA	Poweshiek	686	1198	676	1183	IL	Carroll	361	557	336	529
IA	Ringgold	546	1089	529	1080	IL	Cass	318	515	298	492
IA	Sac	633	1034	617	1005	IL	Champaign	279	477	262	454
IA	Scott	641	1048	282	475	IL	Christian	318	628	298	643
IA	Shelby	596	986	541	1035	IL	Clark	311	508	308	501
IA	Sioux	672	1184	664	1171	IL	Clay	351	546	328	520
IA	Story	606	999	589	972	IL	Clinton	325	663	261	453
IA	Tama	679	1191	671	1178	IL	Coles	279	623	262	564
IA	Taylor	644	1051	541	1021	IL	Cook	287	484	288	481
IA	Union	546	1023	608	994	IL	Crawford	310	640	293	626
IA	Van Buren	589	1059	635	1048	IL	Cumberland	279	623	262	564
IA	Wapello	589	975	573	952	IL	DeKalb	373	577	324	517
IA	Warren	546	929	529	905	IL	DeWitt	338	664	381	655
IA	Washington	545	935	528	911	IL	Douglas	279	477	262	454
IA	Wayne	645	1052	629	1023	IL	DuPage	287	484	288	481
IA	Webster	585	971	570	947	IL	Edgar	333	668	375	650
IA	Winnebago	556	941	540	917	IL	Edwards	351	546	328	520
IA	Winneshiek	395	1144	387	1132	IL	Effingham	363	560	337	530
IA	Woodbury	560	945	530	906	IL	Fayette	363	560	337	530
IA	Worth	556	941	540	917	IL	Ford	279	477	334	527
IA	Wright	606	1138	589	1127	IL	Franklin	331	528	312	505
ID	Ada	716	1229	702	1210	IL	Fulton	277	475	303	496
ID	Adams	729	1358	716	1348	IL	Gallatin	384	590	359	579
ID	Bannock	696	1209	683	1191	IL	Greene	319	516	302	495
ID	Bear Lake	715	1228	701	1268	IL	Grundy	303	500	288	597
ID	Benewah	798	1399	787	1386	IL	Hamilton	383	589	358	575
ID	Bingham	696	1209	683	1191	IL	Hancock	367	568	343	537
ID	Blaine	808	1409	795	1394	IL	Hardin	384	590	359	578
ID	Boise	716	1229	702	1210	IL	Henderson	340	998	588	971
ID	Bonner	734	1281	721	1260	IL	Henry	307	504	282	475
ID	Bonneville	722	1235	708	1217	IL	Iroquois	343	539	321	514
ID	Boundary	734	1281	721	1260	IL	Jackson	331	585	312	565
ID	Butte	722	1235	708	1217	IL	Jasper	351	546	328	520
ID	Camas	808	1409	795	1394	IL	Jefferson	335	532	316	509
ID	Canyon	716	1365	702	1354	IL	Jersey	299	496	261	453

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
IL	Jo Daviess	302	499	287	480	IN	Crawford	339	536	280	473
IL	Johnson	12	13	9	458	IN	Daviess	310	507	293	589
IL	Kane	373	577	324	517	IN	DeKalb	304	638	279	472
IL	Kankakee	343	539	321	514	IN	Dearborn	321	559	266	459
IL	Kendall	373	577	324	517	IN	Decatur	313	639	274	618
IL	Knox	324	521	306	499	IN	Delaware	323	520	305	498
IL	LaSalle	336	533	317	510	IN	Dubois	394	676	380	654
IL	Lake	287	551	288	481	IN	Elkhart	349	545	326	519
IL	Lawrence	310	507	293	486	IN	Fayette	385	592	360	584
IL	Lee	291	599	270	463	IN	Floyd	339	536	280	473
IL	Livingston	336	641	334	615	IN	Fountain	333	530	314	507
IL	Logan	318	662	298	616	IN	Franklin	270	672	266	637
IL	Macon	305	502	289	482	IN	Fulton	312	591	295	580
IL	Macoupin	334	531	315	508	IN	Gibson	273	471	272	465
IL	Madison	299	496	261	453	IN	Grant	389	621	363	613
IL	Marion	358	554	332	524	IN	Greene	341	537	320	513
IL	Marshall	277	475	303	496	IN	Hamilton	390	642	274	467
IL	Mason	277	475	303	496	IN	Hancock	362	558	274	467
IL	Massac	12	13	9	458	IN	Harrison	339	536	280	473
IL	McDonough	318	515	298	547	IN	Hendricks	275	473	274	467
IL	McHenry	287	551	288	481	IN	Henry	362	558	373	648
IL	McLean	338	535	334	527	IN	Howard	364	562	338	531
IL	Menard	318	515	298	492	IN	Huntington	332	529	313	506
IL	Mercer	307	504	282	475	IN	Jackson	313	674	296	627
IL	Monroe	325	522	261	453	IN	Jasper	308	505	284	477
IL	Montgomery	334	531	315	508	IN	Jay	332	616	313	611
IL	Morgan	319	516	302	495	IN	Jefferson	321	518	304	497
IL	Moultrie	305	502	289	482	IN	Jennings	313	510	296	488
IL	Ogle	291	488	270	463	IN	Johnson	275	473	274	467
IL	Peoria	277	475	303	496	IN	Knox	310	507	293	486
IL	Perry	331	585	312	566	IN	Kosciusko	349	545	326	519
IL	Piatt	305	502	289	482	IN	LaPorte	378	582	352	556
IL	Pike	353	548	329	521	IN	Lagrange	304	501	279	549
IL	Pope	384	590	359	578	IN	Lake	308	505	284	477
IL	Pulaski	563	948	549	926	IN	Lawrence	329	526	311	504
IL	Putnam	336	533	317	510	IN	Madison	390	643	372	647
IL	Randolph	325	522	261	453	IN	Marion	275	473	274	467
IL	Richland	351	546	328	520	IN	Marshall	312	509	295	487
IL	Rock Island	307	504	282	475	IN	Martin	310	507	293	589
IL	Saline	384	590	359	579	IN	Miami	389	622	363	614
IL	Sangamon	318	515	298	492	IN	Monroe	341	537	320	513
IL	Schuyler	318	515	298	492	IN	Montgomery	402	681	385	659
IL	Scott	319	516	302	495	IN	Morgan	275	473	274	467
IL	Shelby	305	604	289	601	IN	Newton	308	505	284	477
IL	St. Clair	325	522	261	453	IN	Noble	304	501	279	472
IL	Stark	307	504	282	475	IN	Ohio	321	559	266	459
IL	Stephenson	302	499	287	480	IN	Orange	329	526	311	504
IL	Tazewell	277	475	303	496	IN	Owen	341	537	320	513
IL	Union	563	634	549	623	IN	Parke	311	508	308	501
IL	Vermillion	333	530	314	507	IN	Perry	316	627	300	617
IL	Wabash	273	658	272	638	IN	Pike	310	507	380	654
IL	Warren	324	521	306	499	IN	Porter	308	505	284	477
IL	Washington	358	554	332	524	IN	Posey	273	471	272	465
IL	Wayne	335	532	316	509	IN	Pulaski	312	591	295	581
IL	White	383	589	358	576	IN	Putnam	275	620	274	467
IL	Whiteside	361	602	336	599	IN	Randolph	323	520	305	498
IL	Will	303	500	288	597	IN	Ripley	321	559	304	602
IL	Williamson	331	528	312	505	IN	Rush	275	644	274	467
IL	Winnebago	291	488	270	463	IN	Scott	365	563	280	567
IL	Woodford	338	535	303	496	IN	Shelby	275	645	274	467
IN	Adams	332	615	313	610	IN	Spencer	273	471	272	465
IN	Allen	304	501	279	472	IN	St. Joseph	312	509	295	487
IN	Bartholomew	313	510	296	488	IN	Starke	378	582	352	557
IN	Benton	300	497	285	478	IN	Steuben	304	618	279	472
IN	Blackford	323	520	305	588	IN	Sullivan	311	661	308	605
IN	Boone	401	680	274	467	IN	Switzerland	321	518	304	497
IN	Brown	341	537	320	513	IN	Tippecanoe	300	497	285	478
IN	Carroll	300	497	285	478	IN	Tipton	364	562	338	531
IN	Cass	364	632	338	531	IN	Union	385	592	360	585
IN	Clark	365	563	280	473	IN	Vanderburgh	273	471	272	465
IN	Clay	311	508	308	501	IN	Vermillion	311	508	308	501
IN	Clinton	300	497	285	583	IN	Vigo	311	508	308	501
						IN	Wabash	389	666	363	645

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions—Con.

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
IN	Warren	333	530	314	507	KS	Nemaha	554	1071	639	1062
IN	Warrick	273	471	272	465	KS	Neosho	601	992	584	966
IN	Washington	339	625	280	473	KS	Ness	682	1194	673	1180
IN	Wayne	385	592	360	585	KS	Norton	637	1044	623	1015
IN	Wells	332	529	313	506	KS	Osage	554	938	538	915
IN	White	300	497	285	478	KS	Osborne	622	1019	606	991
IN	Whitley	304	501	279	472	KS	Ottawa	569	954	555	932
KS	Allen	601	1164	644	1081	KS	Pawnee	583	969	568	945
KS	Anderson	624	1086	644	1082	KS	Phillips	637	1044	623	1015
KS	Atchison	671	1183	663	1170	KS	Pottawatomie	554	993	538	967
KS	Barber	669	1181	661	1168	KS	Pratt	618	1015	603	988
KS	Barton	583	969	568	945	KS	Rawlins	636	1042	621	1013
KS	Bourbon	630	1030	614	1001	KS	Reno	598	988	582	963
KS	Brown	554	1070	639	1061	KS	Republic	642	1049	627	1019
KS	Butler	576	961	561	937	KS	Rice	598	988	582	963
KS	Chase	567	952	553	930	KS	Riley	554	993	538	967
KS	Chautauqua	451	732	442	1071	KS	Rooks	565	950	551	928
KS	Cherokee	539	922	546	923	KS	Rush	583	969	568	945
KS	Cheyenne	636	1042	621	1013	KS	Russell	667	1179	660	1167
KS	Clark	551	1040	534	1011	KS	Saline	569	954	555	932
KS	Clay	662	1174	655	1162	KS	Scott	575	1058	562	1046
KS	Cloud	642	1049	627	1019	KS	Sedgwick	576	961	561	937
KS	Coffey	567	952	553	930	KS	Seward	587	973	572	950
KS	Comanche	618	1015	603	988	KS	Shawnee	554	938	538	915
KS	Cowley	576	1124	652	1159	KS	Sheridan	613	1008	597	981
KS	Crawford	630	1030	614	1001	KS	Sherman	659	1110	646	1097
KS	Decatur	613	1008	597	981	KS	Smith	637	1142	623	1129
KS	Dickinson	650	1104	634	1092	KS	Stafford	598	1108	582	1096
KS	Doniphan	591	978	576	955	KS	Stanton	562	947	547	924
KS	Douglas	624	1140	643	1075	KS	Stevens	664	1176	657	1164
KS	Edwards	583	969	568	945	KS	Sumner	576	961	561	1064
KS	Elk	451	732	442	715	KS	Thomas	659	1111	646	1098
KS	Ellis	565	950	551	928	KS	Trego	565	1131	551	1120
KS	Ellsworth	569	1094	555	1086	KS	Wabaunsee	554	938	538	915
KS	Finney	575	960	562	938	KS	Wallace	659	1110	646	1097
KS	Ford	551	934	534	910	KS	Washington	635	1041	620	1012
KS	Franklin	624	1021	643	1076	KS	Wichita	643	1050	628	1020
KS	Geary	650	1057	634	1041	KS	Wilson	675	1187	654	1161
KS	Gove	565	1039	551	1010	KS	Woodson	601	1164	644	1081
KS	Graham	565	950	551	1034	KS	Wyandotte	621	1018	536	913
KS	Grant	562	947	547	924	KY	Adair	82	138	59	136
KS	Gray	551	934	534	910	KY	Allen	29	32	22	95
KS	Greeley	643	1050	628	1020	KY	Anderson	114	170	87	156
KS	Greenwood	567	1128	553	1117	KY	Ballard	12	13	9	458
KS	Hamilton	575	1082	562	1074	KY	Barren	53	59	39	39
KS	Harper	661	1129	561	1118	KY	Bath	131	233	17	152
KS	Harvey	576	981	561	937	KY	Bell	96	116	72	89
KS	Haskell	575	960	562	938	KY	Boone	2	2	266	459
KS	Hodgeman	551	934	534	910	KY	Bourbon	102	125	17	17
KS	Jackson	554	938	538	915	KY	Boyd	46	102	3	3
KS	Jefferson	554	938	538	915	KY	Boyle	27	30	21	21
KS	Jewell	622	1019	606	991	KY	Bracken	116	183	90	170
KS	Johnson	624	1021	536	913	KY	Breathitt	18	20	17	17
KS	Kearny	575	960	562	938	KY	Breckinridge	89	201	370	155
KS	Kingman	661	1130	561	1119	KY	Bullitt	272	3	280	473
KS	Kiowa	618	1015	603	988	KY	Butler	29	32	22	22
KS	Labette	601	992	584	966	KY	Caldwell	45	107	69	81
KS	Lane	575	1058	562	1045	KY	Calloway	115	176	89	164
KS	Leavenworth	621	1018	536	913	KY	Campbell	2	193	266	459
KS	Lincoln	569	954	555	932	KY	Carlisle	12	13	9	458
KS	Linn	630	1030	614	1001	KY	Carroll	321	518	304	497
KS	Logan	565	1039	551	1010	KY	Carter	46	102	3	3
KS	Lyon	567	952	553	930	KY	Casey	27	30	21	21
KS	Marion	576	981	561	937	KY	Christian	45	49	168	261
KS	Marshall	635	1041	620	1012	KY	Clark	18	203	17	17
KS	Mcpherson	674	1186	666	1173	KY	Clay	51	217	122	215
KS	Meade	551	1040	534	1011	KY	Clinton	104	127	79	107
KS	Miami	624	1021	536	913	KY	Crittenden	12	15	9	10
KS	Mitchell	622	1019	606	991	KY	Cumberland	104	127	79	108
KS	Montgomery	451	732	442	715	KY	Daviess	316	69	300	46
KS	Morris	650	1057	634	1042	KY	Edmonson	29	32	22	22
KS	Morton	587	1038	572	1009	KY	Elliott	67	74	3	3

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
KY	Estill	62	68	44	44	KY	Shelby	272	3	280	473
KY	Fayette	18	20	17	17	KY	Simpson	29	32	22	22
KY	Fleming	116	182	90	169	KY	Spencer	272	3	280	473
KY	Floyd	11	12	8	8	KY	Taylor	82	93	59	62
KY	Franklin	114	170	87	156	KY	Todd	45	49	168	261
KY	Fulton	181	284	165	258	KY	Trigg	45	49	168	261
KY	Gallatin	2	2	266	459	KY	Trimble	321	518	304	497
KY	Garrard	27	172	21	158	KY	Union	40	43	272	465
KY	Grant	2	2	266	459	KY	Warren	29	32	22	22
KY	Graves	12	13	9	100	KY	Washington	272	218	113	206
KY	Grayson	89	189	371	179	KY	Wayne	37	40	29	29
KY	Green	82	93	59	62	KY	Webster	45	107	69	82
KY	Greenup	46	102	3	3	KY	Whitley	51	55	36	36
KY	Hancock	316	69	300	46	KY	Wolfe	18	20	17	17
KY	Hardin	89	103	280	526	KY	Woodford	18	20	17	17
KY	Harlan	96	116	72	90	LA	Acadia	424	844	447	720
KY	Harrison	119	221	17	182	LA	Allen	450	731	440	804
KY	Hart	53	59	39	39	LA	Ascension	419	698	401	672
KY	Henderson	40	43	272	465	LA	Assumption	467	750	391	663
KY	Henry	272	3	280	473	LA	Avoyelles	450	731	440	713
KY	Hickman	12	13	9	458	LA	Beauregard	470	798	458	773
KY	Hopkins	45	107	69	82	LA	Blenville	439	719	428	787
KY	Jackson	62	68	44	44	LA	Bossier	416	695	412	683
KY	Jefferson	272	3	280	473	LA	Caddo	416	695	412	683
KY	Jessamine	18	20	17	17	LA	Calcasieu	470	754	458	733
KY	Johnson	11	12	8	8	LA	Caldwell	443	724	433	706
KY	Kenton	2	2	266	459	LA	Cameron	470	754	458	733
KY	Knott	18	27	18	18	LA	Catahoula	450	759	440	739
KY	Knox	51	55	36	36	LA	Claiborne	523	906	503	879
KY	Larue	89	103	280	526	LA	Concordia	435	714	422	693
KY	Laurel	51	143	36	141	LA	DeSoto	416	695	412	683
KY	Lawrence	46	102	3	3	LA	East Baton Rouge	419	698	401	672
KY	Lee	18	20	17	17	LA	East Carroll	443	1418	433	801
KY	Leslie	18	27	18	18	LA	East Feliciana	419	698	401	672
KY	Letcher	123	225	121	214	LA	Evangeline	463	745	452	725
KY	Lewis	337	647	319	629	LA	Franklin	443	724	433	706
KY	Lincoln	27	30	21	88	LA	Grant	450	731	440	713
KY	Livingston	12	15	9	10	LA	Iberia	424	703	447	834
KY	Logan	29	207	105	198	LA	Iberville	419	698	401	672
KY	Lyon	12	13	9	458	LA	Jackson	439	719	428	700
KY	Madison	62	68	44	44	LA	Jefferson	403	682	391	663
KY	Magoffin	11	12	8	8	LA	Jefferson Davis	470	754	458	733
KY	Marion	272	218	113	206	LA	LaSalle	450	759	440	739
KY	Marshall	12	13	9	458	LA	Lafayette	424	703	447	720
KY	Martin	46	102	3	3	LA	Lafourche	467	750	391	663
KY	Mason	116	183	90	170	LA	Lincoln	439	719	428	700
KY	McCracken	12	13	9	458	LA	Livingston	419	698	401	672
KY	McCreary	37	40	29	29	LA	Madison	431	812	417	810
KY	McLean	316	69	300	46	LA	Morehouse	443	811	433	802
KY	Meade	89	103	280	473	LA	Natchitoches	416	753	412	732
KY	Menifee	67	74	3	3	LA	Orleans	403	682	391	663
KY	Mercer	27	212	108	201	LA	Ouachita	443	724	433	706
KY	Metcalfe	53	59	39	39	LA	Plaquemines	403	682	391	663
KY	Monroe	53	179	39	166	LA	Pointe Coupee	419	824	401	672
KY	Montgomery	131	233	17	152	LA	Rapides	450	731	440	713
KY	Morgan	67	74	3	172	LA	Red River	416	753	412	732
KY	Muhlenberg	45	178	69	165	LA	Richland	443	724	433	738
KY	Nelson	89	103	280	526	LA	Sabine	416	695	412	683
KY	Nicholas	102	125	17	120	LA	St. Bernard	403	682	391	663
KY	Ohio	316	69	300	46	LA	St. Charles	403	771	391	663
KY	Oldham	272	3	280	473	LA	St. Helena	423	702	408	679
KY	Owen	114	171	87	157	LA	St. James	403	682	391	663
KY	Owsley	18	20	17	17	LA	St. John The Baptist	403	771	391	663
KY	Pendleton	2	193	266	459	LA	St. Landry	463	745	452	725
KY	Perry	18	27	18	18	LA	St. Martin	424	703	447	720
KY	Pike	13	14	10	9	LA	St. Mary	528	911	391	873
KY	Powell	18	203	17	17	LA	St. Tammany	500	795	391	663
KY	Pulaski	37	40	29	29	LA	Tangipahoa	423	702	408	679
KY	Robertson	119	221	17	182	LA	Tensas	435	714	422	693
KY	Rockcastle	62	137	44	135	LA	Terrebonne	467	750	391	663
KY	Rowan	67	74	3	3	LA	Union	439	886	428	869
KY	Russell	82	209	106	199	LA	Vermilion	424	820	447	720
KY	Scott	18	155	17	17						

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
LA	Vernon	470	798	458	773	MI	Benzle	271	470	259	451
LA	Washington	500	795	517	893	MI	Berrien	327	524	310	503
LA	Webster	416	813	412	783	MI	Branch	375	579	349	550
LA	West Baton Rouge	419	698	401	672	MI	Calhoun	381	586	355	568
LA	West Carroll	443	724	433	738	MI	Cass	327	524	310	503
LA	West Feliciana	419	698	401	672	MI	Charlevoix	294	491	278	471
LA	Winn	530	913	521	897	MI	Cheboygan	294	491	278	471
						MI	Chippewa	294	667	374	649
MA	Barnstable	22	160	13	138	MI	Clare	330	575	346	542
MA	Berkshire	112	162	119	212	MI	Clinton	285	483	322	515
MA	Bristol	68	75	125	218	MI	Crawford	392	656	365	639
MA	Dukes	120	222	13	168	MI	Delta	293	571	277	539
MA	Essex	74	83	13	13	MI	Dickinson	315	513	299	493
MA	Franklin	101	123	77	102	MI	Eaton	285	483	322	515
MA	Hampden	32	35	109	202	MI	Emmet	294	491	278	471
MA	Hampshire	32	35	109	202	MI	Genesee	328	525	322	632
MA	Middlesex	22	24	13	13	MI	Gladwin	330	527	269	462
MA	Nantucket	111	161	107	200	MI	Gogebic	284	659	366	641
MA	Norfolk	22	24	13	13	MI	Grand Traverse	271	470	259	451
MA	Plymouth	22	24	13	13	MI	Gratiot	309	655	271	491
MA	Suffolk	22	24	13	13	MI	Hillsdale	375	579	349	551
MA	Worcester	101	123	77	101	MI	Houghton	359	555	333	525
						MI	Huron	322	648	269	620
MD	Alleghany	1	1	48	49	MI	Ingham	285	483	322	515
MD	Anne Arundel	16	148	5	5	MI	Ionia	309	506	271	563
MD	Baltimore	16	18	5	5	MI	Iosco	342	605	335	562
MD	Calvert	16	149	16	16	MI	Iron	315	673	378	653
MD	Caroline	107	132	5	5	MI	Isabella	330	575	346	542
MD	Carroll	16	18	5	5	MI	Jackson	375	649	349	630
MD	Cecil	75	85	101	194	MI	Kalamazoo	348	544	325	518
MD	Charles	61	67	16	16	MI	Kalkaska	271	470	259	451
MD	Dorchester	107	132	104	197	MI	Kent	309	506	271	464
MD	Frederick	48	216	16	16	MI	Keweenaw	359	555	333	525
MD	Garrett	1	145	48	49	MI	Lake	317	514	301	494
MD	Harford	75	85	5	5	MI	Lapeer	328	525	258	450
MD	Howard	16	18	5	5	MI	Leelanau	271	470	259	451
MD	Kent	124	226	5	121	MI	Lenawee	375	650	349	631
MD	Montgomery	61	78	16	16	MI	Livingston	274	472	258	450
MD	Prince Georges	61	67	16	16	MI	Luce	293	598	277	594
MD	Queen Annes	107	132	5	5	MI	Mackinac	294	491	278	582
MD	Somerset	3	4	2	2	MI	Macomb	274	472	258	450
MD	St. Marys	61	213	16	109	MI	Manistee	271	619	259	612
MD	Talbot	107	132	5	5	MI	Marquette	293	490	277	470
MD	Washington	72	80	52	53	MI	Mason	296	651	281	634
MD	Wicomico	3	4	2	2	MI	Mecosta	309	617	301	633
MD	Worcester	3	4	2	2	MI	Menominee	315	513	299	493
						MI	Midland	330	527	269	462
ME	Androscoggin	95	115	71	86	MI	Missaukee	317	514	301	494
ME	Aroostook	136	238	128	221	MI	Monroe	276	636	258	450
ME	Cumberland	9	10	6	6	MI	Montcalm	309	506	271	491
ME	Franklin	95	115	71	87	MI	Montmorency	371	574	345	541
ME	Hancock	17	124	15	103	MI	Muskegon	296	493	281	474
ME	Kennebec	38	41	30	30	MI	Newaygo	296	493	281	548
ME	Knox	9	101	65	73	MI	Oakland	274	472	258	450
ME	Lincoln	9	101	65	74	MI	Oceana	296	493	281	474
ME	Oxford	95	157	71	148	MI	Ogemaw	342	538	335	528
ME	Penobscot	17	19	15	15	MI	Ontonagon	284	660	366	642
ME	Piscataquis	17	19	15	15	MI	Osceola	317	514	301	494
ME	Sagadahoc	9	10	6	6	MI	Oscoda	342	538	335	528
ME	Somerset	38	41	30	30	MI	Otsego	392	657	365	640
ME	Waldo	38	147	15	15	MI	Ottawa	320	517	271	464
ME	Washington	17	124	15	104	MI	Presque Isle	371	574	345	541
ME	York	98	119	86	149	MI	Roscommon	392	656	365	639
						MI	Saginaw	322	519	269	462
MI	Alcona	371	574	345	541	MI	Sanilac	297	494	258	450
MI	Alger	293	490	277	470	MI	Schoolcraft	293	571	277	539
MI	Allegan	320	517	271	464	MI	Shiawassee	285	626	322	515
MI	Alpena	371	574	345	541	MI	St. Clair	297	494	258	450
MI	Antrim	271	470	259	451	MI	St. Joseph	348	544	325	518
MI	Arenac	342	538	335	528	MI	Tuscola	322	519	269	462
MI	Baraga	359	555	333	525	MI	Van Buren	327	524	310	553
MI	Barry	381	586	355	569	MI	Washtenaw	274	472	258	450
MI	Bay	342	538	269	462	MI	Wayne	274	472	258	450

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
MI	Wexford	317	514	301	494	MN	St. Louis	289	486	267	460
MN	Aitkin	612	1112	596	1099	MN	Stearns	588	974	294	951
MN	Anoka	540	923	275	468	MN	Steele	552	1156	535	1144
MN	Becker	620	1017	605	990	MN	Stevens	608	1152	591	1140
MN	Beltrami	597	987	581	962	MN	Swift	592	1148	577	1135
MN	Benton	588	974	294	951	MN	Todd	653	1068	638	1059
MN	Big Stone	590	976	574	953	MN	Traverse	590	976	574	953
MN	Blue Earth	573	957	559	935	MN	Wabasha	552	936	535	912
MN	Brown	602	994	585	968	MN	Wadena	582	968	567	944
MN	Carlton	289	486	267	460	MN	Waseca	573	1084	559	1077
MN	Carver	540	923	275	468	MN	Washington	286	940	275	468
MN	Cass	612	1007	596	980	MN	Watsonwan	573	1158	559	1146
MN	Chippewa	592	979	577	956	MN	Wilkin	677	1189	667	1174
MN	Chisago	286	561	275	468	MN	Winona	397	1060	388	1051
MN	Clay	547	930	531	907	MN	Wright	588	1083	275	468
MN	Clearwater	597	987	581	962	MN	Yellow Medicine	592	979	577	956
MN	Cook	289	1085	267	1078	MO	Adair	566	951	552	929
MN	Cottonwood	619	1107	604	1095	MO	Andrew	591	978	576	955
MN	Crow Wing	612	1007	596	980	MO	Atchison	678	1190	669	1176
MN	Dakota	286	940	275	468	MO	Audrain	666	1178	659	1166
MN	Dodge	552	936	535	912	MO	Barry	549	1006	595	979
MN	Douglas	608	1001	591	974	MO	Barton	539	1109	546	923
MN	Faribault	646	1053	630	1025	MO	Bates	607	1159	590	1148
MN	Fillmore	552	936	535	912	MO	Benton	656	1080	642	1072
MN	Freeborn	646	1053	630	1026	MO	Bollinger	563	948	549	926
MN	Goodhue	370	1167	350	1155	MO	Boone	553	937	537	914
MN	Grant	582	1066	567	1057	MO	Buchanan	591	978	576	955
MN	Hennepin	540	923	275	468	MO	Butler	563	990	549	964
MN	Houston	290	487	268	461	MO	Caldwell	548	959	536	913
MN	Hubbard	612	1007	596	980	MO	Callaway	581	1134	290	596
MN	Isanti	603	995	275	468	MO	Camden	685	1197	675	1182
MN	Itasca	393	1153	367	1141	MO	Cape Girardeau	563	948	549	926
MN	Jackson	619	1016	604	989	MO	Carroll	657	1102	536	1050
MN	Kanabec	603	995	275	468	MO	Carter	563	990	549	964
MN	Kandiyohi	592	979	577	956	MO	Cass	548	931	536	913
MN	Kittson	604	1151	586	1139	MO	Cedar	639	1046	625	1017
MN	Koochiching	393	1154	368	1142	MO	Chariton	553	1119	537	1106
MN	Lac Qui Parle	592	1166	577	1154	MO	Christian	549	932	532	908
MN	Lake	289	603	267	460	MO	Clark	367	568	343	537
MN	Lake Of The Woods	631	1031	615	1002	MO	Clay	548	959	536	913
MN	Le Sueur	540	923	275	468	MO	Clinton	548	959	536	913
MN	Lincoln	609	1003	592	976	MO	Cole	581	967	290	483
MN	Lyon	609	1003	592	976	MO	Cooper	553	937	537	914
MN	Mahnomen	620	1017	605	990	MO	Crawford	581	967	261	453
MN	Marshall	604	996	586	969	MO	Dade	549	932	532	908
MN	Martin	626	1025	610	996	MO	Dallas	549	932	532	908
MN	McLeod	540	1037	275	1008	MO	Daviess	548	959	536	913
MN	Meeker	588	974	294	951	MO	DeKalb	591	978	576	955
MN	Mille Lacs	603	1171	294	951	MO	Dent	627	1027	611	998
MN	Morrison	653	1067	638	1058	MO	Douglas	549	932	532	908
MN	Mower	552	1061	535	1052	MO	Dunklin	571	982	557	958
MN	Murray	619	1135	604	1123	MO	Franklin	541	924	261	453
MN	Nicollet	573	957	559	935	MO	Gasconade	581	967	290	483
MN	Nobles	619	1016	604	989	MO	Gentry	591	978	576	955
MN	Norman	547	930	531	907	MO	Greene	549	932	532	908
MN	Olmsted	552	936	535	912	MO	Grundy	683	1195	670	1177
MN	Otter Tail	582	968	567	944	MO	Harrison	591	1145	576	1133
MN	Pennington	604	996	586	969	MO	Henry	607	1000	590	973
MN	Pine	603	995	275	468	MO	Hickory	549	932	532	908
MN	Pipestone	544	1169	650	1157	MO	Holt	678	1190	669	1176
MN	Polk	584	1116	569	1103	MO	Howard	553	937	537	914
MN	Pope	608	1001	591	974	MO	Howell	574	977	575	954
MN	Ramsey	286	940	275	468	MO	Iron	541	1072	261	1063
MN	Red Lake	604	996	586	969	MO	Jackson	548	931	536	913
MN	Redwood	602	994	585	968	MO	Jasper	539	922	546	923
MN	Renville	602	1077	585	1069	MO	Jefferson	541	924	261	453
MN	Rice	396	1168	649	1156	MO	Johnson	548	931	536	913
MN	Rock	544	1155	527	1143	MO	Knox	566	951	552	929
MN	Roseau	631	1031	615	1002	MO	Laclede	549	1091	532	1083
MN	Scott	540	923	275	468	MO	Lafayette	548	931	536	913
MN	Sherburne	540	923	294	951	MO	Lawrence	549	1006	595	979
MN	Sibley	540	1037	275	1008	MO	Lewis	353	548	329	521

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
MO	Lincoln	599	989	261	453	MS	Coahoma	422	701	406	677
MO	Linn	673	1185	674	1181	MS	Copiah	511	817	420	691
MO	Livingston	657	1103	536	1109	MS	Covington	409	823	394	813
MO	Macon	553	1137	537	1126	MS	De Soto	146	248	399	670
MO	Madison	663	1175	651	1158	MS	Forrest	409	688	394	666
MO	Maries	581	967	290	483	MS	Franklin	435	838	422	826
MO	Marion	353	1036	619	1007	MS	George	471	755	459	734
MO	McDonald	539	922	546	923	MS	Greene	409	688	394	666
MO	Mercer	683	1195	670	1177	MS	Grenada	502	799	490	774
MO	Miller	581	967	290	483	MS	Hancock	456	737	478	759
MO	Mississippi	563	948	549	926	MS	Harrison	456	737	478	759
MO	Moniteau	581	967	290	483	MS	Hinds	411	690	420	691
MO	Monroe	666	1178	659	1166	MS	Holmes	411	868	420	866
MO	Montgomery	666	1178	659	1166	MS	Humphreys	487	796	488	771
MO	Morgan	656	1080	642	1072	MS	Issaquena	488	780	476	757
MO	New Madrid	563	948	549	926	MS	Itawamba	418	697	400	671
MO	Newton	539	922	546	923	MS	Jackson	471	755	459	734
MO	Nodaway	591	978	576	1033	MS	Jasper	455	736	443	716
MO	Oregon	574	977	575	954	MS	Jefferson	435	839	422	827
MO	Osage	581	967	290	483	MS	Jefferson Davis	504	801	492	777
MO	Ozark	549	932	532	908	MS	Jones	455	736	443	716
MO	Pemiscot	614	1010	598	983	MS	Kemper	412	691	396	668
MO	Perry	563	948	549	926	MS	Lafayette	459	741	448	721
MO	Pettis	656	1080	642	1072	MS	Lamar	409	688	394	666
MO	Phelps	627	1027	611	998	MS	Lauderdale	412	691	396	668
MO	Pike	353	1036	619	1007	MS	Lawrence	504	801	492	777
MO	Platte	548	959	536	913	MS	Leake	411	814	420	691
MO	Polk	549	932	532	908	MS	Lee	418	697	400	671
MO	Pulaski	627	1027	611	998	MS	Leflore	487	796	488	771
MO	Putnam	566	951	552	929	MS	Lincoln	511	818	492	864
MO	Ralls	353	1036	619	1007	MS	Lowndes	461	743	450	723
MO	Randolph	553	1119	537	1106	MS	Madison	411	690	420	691
MO	Ray	548	959	536	913	MS	Marion	477	846	465	830
MO	Reynolds	627	1101	611	1091	MS	Marshall	146	248	399	670
MO	Ripley	563	990	549	964	MS	Monroe	418	697	400	671
MO	Saline	656	1081	642	1073	MS	Montgomery	502	799	490	774
MO	Schuyler	566	951	552	929	MS	Neshoba	412	691	396	668
MO	Scotland	566	1098	552	1089	MS	Newton	412	691	396	668
MO	Scott	563	948	549	926	MS	Noxubee	461	743	450	723
MO	Shannon	574	977	575	954	MS	Oktibbeha	484	775	473	753
MO	Shelby	553	1137	537	1126	MS	Panola	146	807	399	829
MO	St. Charles	599	989	261	453	MS	Pearl River	500	879	513	889
MO	St. Clair	607	1000	590	973	MS	Perry	409	688	394	666
MO	St. Francois	541	965	261	942	MS	Pike	477	762	465	742
MO	St. Louis	541	924	261	453	MS	Pontotoc	482	768	471	748
MO	St. Louis City	541	924	261	453	MS	Prentiss	418	697	400	807
MO	St. Genevieve	541	1087	379	1147	MS	Quitman	422	701	406	677
MO	Stoddard	563	990	549	964	MS	Rankin	411	690	420	691
MO	Stone	549	932	532	908	MS	Scott	411	690	420	691
MO	Sullivan	566	951	552	929	MS	Sharkey	488	780	476	757
MO	Taney	676	1188	668	1175	MS	Simpson	411	860	420	853
MO	Texas	549	1141	532	1128	MS	Smith	455	736	443	716
MO	Vernon	639	1046	625	1017	MS	Stone	456	843	478	759
MO	Warren	539	989	261	453	MS	Sunflower	487	778	475	756
MO	Washington	541	965	261	942	MS	Tallahatchie	422	701	406	677
MO	Wayne	563	990	549	964	MS	Tate	146	807	399	670
MO	Webster	549	932	532	908	MS	Tippah	482	856	471	843
MO	Worth	591	978	576	955	MS	Tishomingo	498	793	487	769
MO	Wright	549	932	532	908	MS	Tunica	146	836	399	788
MS	Adams	435	714	422	693	MS	Union	482	768	471	748
MS	Alcorn	498	793	487	769	MS	Walthall	477	762	465	742
MS	Amite	477	762	465	742	MS	Warren	431	710	417	688
MS	Attala	411	867	420	816	MS	Washington	488	780	476	757
MS	Benton	146	248	399	670	MS	Wayne	455	837	443	825
MS	Bolivar	487	778	475	756	MS	Webster	484	775	473	753
MS	Calhoun	459	741	448	792	MS	Wilkinson	525	908	505	881
MS	Carroll	502	799	490	774	MS	Winston	484	865	473	851
MS	Chickasaw	418	877	400	862	MS	Yalobusha	459	741	448	721
MS	Choctaw	484	775	473	753	MS	Yazoo	533	916	519	895
MS	Claiborne	431	710	417	688	MT	Beaverhead	742	1344	728	1331
MS	Clarke	412	855	396	842	MT	Big Horn	691	1203	678	1185
MS	Clay	461	889	450	872	MT	Blaine	712	1225	698	1206

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
MT	Broadwater	721	1234	707	1215	NC	Cherokee	258	457	250	442
MT	Carbon	691	1208	678	1190	NC	Chowan	243	374	225	350
MT	Carter	714	1227	700	1208	NC	Clay	258	457	250	442
MT	Cascade	692	1204	679	1186	NC	Cleveland	218	368	173	323
MT	Chouteau	692	1204	679	1186	NC	Columbus	207	359	191	319
MT	Custer	714	1227	700	1216	NC	Craven	242	373	224	349
MT	Daniels	733	1247	720	1230	NC	Cumberland	262	461	232	401
MT	Dawson	767	1287	748	1264	NC	Currituck	6	7	45	45
MT	Deer Lodge	742	1257	728	1238	NC	Dare	264	463	45	404
MT	Fallon	714	1227	700	1208	NC	Davidson	186	444	160	253
MT	Fergus	810	1411	796	1395	NC	Davie	149	251	160	253
MT	Flathead	728	1242	715	1225	NC	Duplin	238	365	219	328
MT	Gallatin	773	1305	755	1294	NC	Durham	170	273	151	244
MT	Garfield	714	1227	700	1216	NC	Edgecombe	214	324	197	293
MT	Glacier	692	1345	679	1332	NC	Forsyth	149	251	160	253
MT	Golden Valley	691	1208	678	1190	NC	Franklin	198	308	151	244
MT	Granite	713	1226	699	1207	NC	Gaston	218	331	173	266
MT	Hill	712	1225	698	1206	NC	Gates	243	439	45	45
MT	Jefferson	721	1234	707	1215	NC	Graham	209	319	193	289
MT	Judith Basin	692	1204	679	1186	NC	Granville	170	273	151	244
MT	Lake	713	1320	699	1309	NC	Greene	238	365	219	329
MT	Lewis And Clark	721	1234	707	1215	NC	Gulford	186	289	160	253
MT	Liberty	712	1225	698	1206	NC	Halifax	214	324	197	293
MT	Lincoln	728	1242	715	1225	NC	Harnett	203	358	232	402
MT	Madison	773	1306	755	1295	NC	Haywood	225	448	242	434
MT	McCone	767	1287	748	1264	NC	Henderson	225	340	202	301
MT	Meagher	778	1330	760	1318	NC	Hertford	243	439	225	424
MT	Mineral	713	1226	699	1207	NC	Hoke	205	315	189	285
MT	Missoula	713	1226	699	1207	NC	Hyde	195	303	181	276
MT	Musselshell	691	1298	678	1284	NC	Iredell	192	298	175	413
MT	Park	756	1273	740	1253	NC	Jackson	209	319	193	289
MT	Petroleum	810	1411	796	1395	NC	Johnston	198	350	209	312
MT	Phillips	712	1316	698	1306	NC	Jones	242	373	224	349
MT	Pondera	692	1204	679	1186	NC	Lee	203	358	151	302
MT	Powder River	714	1227	700	1216	NC	Lenoir	238	365	219	329
MT	Powell	788	1389	776	1375	NC	Lincoln	218	331	173	266
MT	Prairie	714	1227	700	1216	NC	Macon	209	319	193	289
MT	Ravall	713	1326	699	1314	NC	Madison	225	340	202	301
MT	Richland	767	1347	748	1333	NC	Martin	195	303	181	276
MT	Roosevelt	779	1336	762	1323	NC	McDowell	261	460	252	444
MT	Rosebud	691	1203	678	1185	NC	Mecklenburg	167	270	173	266
MT	Sanders	713	1321	699	1310	NC	Mitchell	240	369	221	338
MT	Sheridan	733	1247	720	1230	NC	Montgomery	205	315	189	285
MT	Silver Bow	742	1257	728	1238	NC	Moore	205	315	189	285
MT	Stillwater	691	1208	678	1190	NC	Nash	214	324	197	293
MT	Sweet Grass	756	1273	740	1253	NC	New Hanover	168	271	154	247
MT	Teton	692	1204	679	1186	NC	Northampton	214	324	197	293
MT	Toole	692	1311	679	1301	NC	Onslow	242	402	224	389
MT	Treasure	691	1203	678	1185	NC	Orange	203	313	151	244
MT	Valley	779	1337	762	1324	NC	Pamlico	242	373	224	349
MT	Wheatland	778	1331	760	1319	NC	Pasquotank	264	463	45	404
MT	Wibaux	767	1287	748	1264	NC	Pender	168	271	154	247
MT	Yellowstone	691	1208	678	1190	NC	Perquimans	264	463	45	404
NC	Alamance	267	466	255	447	NC	Person	170	273	151	244
NC	Alexander	192	298	175	268	NC	Pitt	195	303	181	276
NC	Alleghany	73	81	53	54	NC	Polk	191	296	170	263
NC	Anson	167	270	173	266	NC	Randolph	186	289	160	253
NC	Ashe	194	405	204	307	NC	Richmond	205	315	189	359
NC	Avery	240	369	221	337	NC	Robeson	207	317	191	287
NC	Beaufort	195	303	181	276	NC	Rockingham	186	289	160	335
NC	Bertie	243	439	225	424	NC	Rowan	235	362	173	266
NC	Bladen	207	359	191	319	NC	Rutherford	218	368	246	438
NC	Brunswick	168	271	154	247	NC	Sampson	262	1417	232	351
NC	Buncombe	225	340	202	301	NC	Scotland	207	317	191	287
NC	Burke	229	348	175	268	NC	Stanly	235	423	173	394
NC	Cabarrus	235	362	173	266	NC	Stokes	149	251	160	253
NC	Caldwell	229	348	175	268	NC	Surry	149	251	160	253
NC	Camden	264	463	45	404	NC	Swain	209	319	193	289
NC	Carteret	242	373	224	348	NC	Transylvania	225	340	202	301
NC	Caswell	132	234	126	219	NC	Tyrrell	195	303	181	276
NC	Catawba	229	348	175	268	NC	Union	167	270	173	266
NC	Chatham	203	313	151	302	NC	Vance	170	417	151	353
						NC	Wake	198	308	151	244

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
NC	Warren	170	417	151	353	NE	Burt	542	925	541	918
NC	Washington	195	303	181	276	NE	Butler	561	1133	545	1122
NC	Watauga	194	301	204	307	NE	Cass	542	925	541	918
NC	Wayne	238	392	219	383	NE	Cedar	578	963	564	940
NC	Wilkes	256	455	160	411	NE	Chase	654	1073	640	1065
NC	Wilson	198	350	209	312	NE	Cherry	668	1180	662	1169
NC	Yadkin	149	251	160	253	NE	Cheyenne	741	1117	727	1104
NC	Yancey	240	369	221	338	NE	Clay	564	949	550	927
ND	Adams	640	1047	626	1018	NE	Colfax	542	1172	656	1163
ND	Barnes	547	1100	531	1030	NE	Cuming	542	1115	602	1102
ND	Benson	655	1076	641	1068	NE	Custer	594	1092	579	1084
ND	Billings	605	997	587	970	NE	Dakota	560	945	530	906
ND	Bottineau	550	933	533	1037	NE	Dawes	623	1123	607	1113
ND	Bowman	640	1047	626	1018	NE	Dawson	570	1132	556	1121
ND	Burke	550	933	533	909	NE	Deuel	741	1117	727	1104
ND	Burleigh	543	926	544	921	NE	Dixon	560	945	530	906
ND	Cass	547	930	531	907	NE	Dodge	542	1014	602	987
ND	Cavalier	584	984	569	960	NE	Douglas	542	925	541	918
ND	Dickey	680	1192	672	1179	NE	Dundy	654	1074	640	1066
ND	Divide	579	964	565	941	NE	Fillmore	658	1105	645	1093
ND	Dunn	605	997	587	970	NE	Franklin	570	1165	556	1153
ND	Eddy	655	1075	641	1067	NE	Frontier	570	1132	556	1121
ND	Emmons	543	1139	544	1043	NE	Furnas	616	1012	600	985
ND	Foster	632	1033	616	1004	NE	Gage	561	1026	545	997
ND	Golden Valley	605	997	587	970	NE	Garden	580	966	566	943
ND	Grand Forks	584	970	569	946	NE	Garfield	594	983	579	959
ND	Grant	670	1182	544	1125	NE	Gosper	570	1132	556	1121
ND	Griggs	547	1147	531	1110	NE	Grant	580	966	566	943
ND	Hettinger	640	1047	626	1018	NE	Greeley	555	939	539	916
ND	Kidder	543	926	544	921	NE	Hall	555	939	539	916
ND	LaMoure	680	1192	672	1179	NE	Hamilton	555	1120	539	1108
ND	Logan	684	1196	665	1172	NE	Harlan	616	1012	600	1049
ND	McHenry	550	933	533	909	NE	Hayes	654	1073	640	1065
ND	McIntosh	684	1196	665	1172	NE	Hitchcock	613	1161	597	1150
ND	McKenzie	579	964	565	1024	NE	Holt	559	944	543	920
ND	McLean	543	1095	544	921	NE	Hooker	593	980	578	957
ND	Mercer	543	926	544	921	NE	Howard	555	939	539	916
ND	Morton	543	926	544	921	NE	Jefferson	561	1026	545	997
ND	Mountrail	550	933	533	909	NE	Johnson	660	1113	647	1100
ND	Nelson	584	970	569	946	NE	Kearney	570	955	556	933
ND	Oliver	543	926	544	921	NE	Keith	593	980	578	1040
ND	Pembina	584	984	569	960	NE	Keya Paha	559	944	543	920
ND	Pierce	638	1146	624	1134	NE	Kimball	741	1256	727	1237
ND	Ramsey	655	1076	641	1068	NE	Knox	578	963	564	940
ND	Ransom	547	930	531	907	NE	Lancaster	561	946	545	922
ND	Renville	550	933	533	909	NE	Lincoln	593	980	578	957
ND	Richland	677	1189	667	1174	NE	Logan	594	1092	579	1084
ND	Rolette	638	1045	624	1016	NE	Loup	594	1092	579	1084
ND	Sargent	547	930	531	907	NE	Madison	577	962	563	939
ND	Sheridan	543	1095	544	921	NE	McPherson	593	980	578	957
ND	Sioux	543	926	544	921	NE	Merrick	555	939	539	916
ND	Slope	640	1047	626	1018	NE	Morrill	580	966	566	943
ND	Stark	605	997	587	970	NE	Nance	651	1096	636	1087
ND	Steele	547	930	531	907	NE	Nemaha	687	1199	677	1184
ND	Stutsman	632	1033	616	1004	NE	Nuckolls	564	949	550	927
ND	Towner	638	1045	624	1016	NE	Otoe	660	1114	647	1101
ND	Traill	547	1170	531	1137	NE	Pawnee	628	1028	612	999
ND	Walsh	584	970	569	946	NE	Perkins	593	980	578	957
ND	Ward	550	933	533	909	NE	Phelps	616	1012	600	985
ND	Wells	632	1160	616	1149	NE	Pierce	577	962	563	939
ND	Williams	579	964	565	941	NE	Platte	651	1063	636	1054
NE	Adams	564	949	550	927	NE	Polk	611	1005	594	978
NE	Antelope	577	962	563	939	NE	Red Willow	613	1161	597	1150
NE	Arthur	593	980	578	957	NE	Richardson	628	1028	612	999
NE	Banner	580	966	566	943	NE	Rock	559	944	543	920
NE	Blaine	594	1092	579	1084	NE	Saline	561	946	545	922
NE	Boone	651	1062	636	1053	NE	Sarpy	542	925	541	918
NE	Box Butte	580	966	566	943	NE	Saunders	542	1014	602	987
NE	Boyd	595	1002	580	975	NE	Scott Bluff	580	966	566	943
NE	Brown	559	944	543	920	NE	Seward	561	946	545	922
NE	Buffalo	570	955	556	933	NE	Sheridan	623	1020	607	992
NE						NE	Sherman	570	955	556	933
NE						NE	Sioux	623	1123	607	1113

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions—Con.

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
NE	Stanton	577	962	563	939	NM	Torrance	693	1205	680	1187
NE	Thayer	658	1106	645	1094	NM	Union	814	1415	801	1400
NE	Thomas	594	1092	579	1084	NM	Valencia	693	1205	680	1187
NE	Thurston	560	945	530	906	NV	Churchill	701	1214	688	1276
NE	Valley	594	983	579	959	NV	Clark	707	1220	693	1201
NE	Washington	542	925	541	918	NV	Douglas	701	1265	688	1245
NE	Wayne	577	1157	563	1145	NV	Elko	720	1233	706	1214
NE	Webster	564	949	550	927	NV	Esmeralda	707	1220	693	1201
NE	Wheeler	594	983	579	959	NV	Eureka	720	1233	706	1214
NE	York	611	1005	594	978	NV	Humboldt	701	1214	688	1196
NH	Belknap	91	108	61	64	NV	Lander	720	1233	706	1214
NH	Carroll	91	210	86	150	NV	Lincoln	707	1220	693	1201
NH	Cheshire	90	105	67	77	NV	Lyon	701	1265	688	1245
NH	Coos	138	240	130	223	NV	Mineral	701	1332	688	1320
NH	Grafton	15	17	14	14	NV	Nye	707	1220	693	1201
NH	Hillsborough	91	169	61	64	NV	Ormsby	701	1265	688	1245
NH	Merrimack	91	108	61	64	NV	Pershing	701	1214	688	1196
NH	Rockingham	74	83	86	149	NV	Storey	701	1214	688	1196
NH	Rockingham	74	83	86	149	NV	Washoe	701	1214	688	1196
NH	Strafford	98	119	86	149	NV	White Pine	805	1406	798	1397
NH	Sullivan	15	215	110	203						
NJ	Atlantic	64	71	64	69	NY	Albany	10	11	7	7
NJ	Bergen	36	39	83	127	NY	Allegany	35	89	28	57
NJ	Burlington	23	184	64	70	NY	Bronx	94	114	54	56
NJ	Camden	23	25	64	70	NY	Broome	19	84	27	27
NJ	Cape May	64	71	64	69	NY	Cattaraugus	35	89	28	57
NJ	Cumberland	127	229	98	191	NY	Cayuga	56	187	74	94
NJ	Essex	66	111	66	76	NY	Chautauqua	106	186	84	171
NJ	Gloucester	23	25	64	70	NY	Chemung	65	72	47	48
NJ	Hudson	36	208	83	128	NY	Chenango	58	181	41	167
NJ	Hunterdon	93	113	66	75	NY	Clinton	81	92	58	61
NJ	Mercer	126	228	66	173	NY	Columbia	112	163	7	7
NJ	Middlesex	66	73	66	75	NY	Cortland	105	128	80	114
NJ	Monmouth	108	133	124	217	NY	Delaware	58	64	41	41
NJ	Morris	87	99	66	76	NY	Dutchess	41	129	81	117
NJ	Ocean	108	133	124	217	NY	Erie	54	94	60	63
NJ	Passaic	36	39	83	127	NY	Essex	81	92	58	61
NJ	Salem	23	25	101	194	NY	Franklin	81	140	58	139
NJ	Somerset	66	73	66	75	NY	Fulton	76	86	7	116
NJ	Sussex	87	99	66	76	NY	Genesee	54	94	60	113
NJ	Union	66	111	66	76	NY	Greene	112	163	7	7
NJ	Warren	93	113	114	207	NY	Hamilton	88	100	7	177
NM	Bernalillo	693	1205	680	1187	NY	Herkimer	59	65	56	180
NM	Catron	793	1394	781	1380	NY	Jefferson	80	91	56	59
NM	Chaves	772	1303	753	1290	NY	Kings	113	166	54	56
NM	Colfax	704	1376	690	1362	NY	Lewis	80	91	56	59
NM	Curry	725	1238	711	1220	NY	Livingston	54	60	12	12
NM	De Baca	725	1238	711	1277	NY	Madison	59	65	74	93
NM	Dona Ana	732	1246	719	1229	NY	Monroe	54	60	12	12
NM	Eddy	772	1304	753	1291	NY	Montgomery	76	86	7	7
NM	Grant	793	1394	781	1380	NY	Nassau	83	95	54	56
NM	Guadalupe	801	1402	780	1379	NY	New York	94	114	54	56
NM	Harding	801	1402	780	1379	NY	Niagara	54	112	100	193
NM	Hidalgo	793	1394	781	1380	NY	Oneida	59	65	56	180
NM	Lea	508	806	495	1402	NY	Onondaga	56	62	74	93
NM	Lincoln	769	1289	749	1265	NY	Ontario	21	23	12	12
NM	Los Alamos	724	1237	709	1218	NY	Orange	86	98	63	67
NM	Luna	732	1246	719	1229	NY	Orleans	54	112	12	12
NM	McKinley	765	1285	747	1263	NY	Oswego	56	62	74	93
NM	Mora	801	1402	780	1379	NY	Otsego	58	64	41	41
NM	Otero	769	1289	749	1265	NY	Putnam	41	44	54	56
NM	Quay	725	1380	711	1367	NY	Queens	83	177	54	56
NM	Rio Arriba	724	1237	709	1218	NY	Rensselaer	10	11	7	7
NM	Roosevelt	725	1238	711	1220	NY	Richmond	113	167	54	56
NM	San Juan	740	1354	726	1343	NY	Rockland	133	235	54	56
NM	San Miguel	801	1402	780	1379	NY	Saratoga	88	100	7	7
NM	Sandoval	693	1205	680	1187	NY	Schenectady	88	198	7	7
NM	Santa Fe	724	1237	709	1218	NY	Schoharie	58	64	41	125
NM	Sierra	732	1307	719	1296	NY	Schuyler	65	72	47	48
NM	Socorro	693	1205	680	1187	NY	Seneca	21	23	12	12
NM	Taos	724	1353	709	1285	NY	St. Lawrence	80	206	117	210
NM						NY	Steuben	65	72	47	110

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
NY	Suffolk	83	95	54	56	OH	Ottawa	276	601	276	469
NY	Sullivan	86	98	63	68	OH	Paulding	356	635	341	535
NY	Tioga	19	21	27	27	OH	Perry	377	581	351	555
NY	Tompkins	105	128	80	115	OH	Pickaway	281	479	283	476
NY	Ulster	41	129	81	118	OH	Pike	337	534	319	512
NY	Warren	88	100	7	177	OH	Portage	352	547	382	656
NY	Washington	88	100	7	177	OH	Preble	295	492	292	485
NY	Wayne	21	151	12	12	OH	Putnam	292	489	307	500
NY	Westchester	41	44	54	56	OH	Richland	369	572	344	540
NY	Wyoming	54	94	60	63	OH	Ross	337	534	319	512
NY	Yates	21	195	12	134	OH	Sandusky	366	611	340	608
OH	Adams	270	593	266	595	OH	Scioto	337	647	319	629
OH	Allen	292	489	307	500	OH	Seneca	386	595	361	591
OH	Ashland	369	572	344	540	OH	Shelby	376	580	369	646
OH	Ashtabula	288	610	318	511	OH	Stark	347	543	323	516
OH	Athens	368	670	283	624	OH	Summit	352	547	382	656
OH	Auglaize	292	489	307	500	OH	Trumbull	345	541	339	533
OH	Belmont	24	26	57	60	OH	Tuscarawas	347	543	323	516
OH	Brown	270	469	266	459	OH	Union	354	630	283	476
OH	Butler	270	672	266	637	OH	Van Wert	292	570	307	538
OH	Carroll	347	543	323	516	OH	Vinton	368	670	283	624
OH	Champaign	346	542	292	485	OH	Warren	270	469	266	459
OH	Clark	346	542	292	485	OH	Washington	34	37	43	43
OH	Clermont	270	469	266	459	OH	Wayne	347	564	323	532
OH	Clinton	372	576	347	543	OH	Williams	356	675	341	628
OH	Columbiana	380	584	376	651	OH	Wood	276	474	276	469
OH	Coshocton	377	631	351	621	OH	Wyandot	354	549	330	522
OH	Crawford	354	606	330	603	OK	Adair	445	774	435	752
OH	Cuyahoga	288	485	318	511	OK	Alfalfa	429	708	416	687
OH	Darke	295	646	292	587	OK	Atoka	436	828	423	817
OH	Defiance	356	552	341	535	OK	Beaver	535	918	524	900
OH	Delaware	281	654	283	476	OK	Beckham	440	720	429	701
OH	Erie	366	566	340	534	OK	Blaine	429	815	407	824
OH	Fairfield	368	569	283	476	OK	Bryan	436	715	423	694
OH	Fayette	281	600	283	476	OK	Caddo	476	761	464	741
OH	Franklin	281	479	283	476	OK	Canadian	417	696	407	678
OH	Fulton	276	474	276	469	OK	Carter	474	758	462	737
OH	Galla	283	481	264	456	OK	Cherokee	445	774	435	752
OH	Geauga	288	485	318	511	OK	Choctaw	438	718	425	697
OH	Greene	295	492	292	485	OK	Cimarron	587	1038	572	1009
OH	Guernsey	377	581	351	554	OK	Cleveland	430	709	407	678
OH	Hamilton	270	469	266	459	OK	Coal	478	763	466	743
OH	Hancock	386	594	361	590	OK	Comanche	493	787	482	764
OH	Hardin	292	489	307	500	OK	Cotton	493	787	482	764
OH	Harrison	360	556	57	60	OK	Craig	414	782	410	681
OH	Henry	356	552	276	469	OK	Creek	414	693	410	681
OH	Highland	372	576	347	543	OK	Custer	475	760	463	740
OH	Hocking	368	569	283	476	OK	Delaware	446	802	410	770
OH	Holmes	347	564	323	532	OK	Dewey	469	864	457	850
OH	Huron	366	566	340	534	OK	Ellis	469	752	457	731
OH	Jackson	283	481	264	456	OK	Garfield	429	708	416	687
OH	Jefferson	360	556	57	83	OK	Garvin	430	789	484	766
OH	Knox	388	612	377	652	OK	Grady	476	761	464	741
OH	Lake	288	485	318	511	OK	Grant	429	708	416	687
OH	Lawrence	46	50	3	3	OK	Greer	483	770	472	750
OH	Licking	388	613	283	476	OK	Harmon	483	770	472	799
OH	Logan	398	677	386	660	OK	Harper	469	752	457	731
OH	Lorain	366	669	318	622	OK	Haskell	421	866	409	680
OH	Lucas	276	474	276	469	OK	Hughes	478	810	421	846
OH	Madison	281	479	283	476	OK	Jackson	483	770	472	750
OH	Mahoning	345	541	339	533	OK	Jefferson	497	792	486	768
OH	Marion	354	549	330	522	OK	Johnston	474	847	462	832
OH	Medina	352	624	318	511	OK	Kay	515	894	502	878
OH	Melgs	283	481	264	577	OK	Kingfisher	429	816	407	806
OH	Mercer	292	570	307	538	OK	Kiowa	493	787	482	764
OH	Miami	376	580	292	485	OK	Latimer	466	749	455	729
OH	Monroe	24	26	57	60	OK	Le Flore	421	700	409	680
OH	Montgomery	295	492	292	485	OK	Lincoln	417	773	407	678
OH	Morgan	377	581	351	555	OK	Logan	417	696	407	678
OH	Morrow	354	607	330	604	OK	Love	474	758	462	737
OH	Muskingum	377	581	351	555	OK	Major	429	708	416	687
OH	Noble	377	581	351	554	OK	Marshall	474	848	462	833

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
OK	Mayes	414	693	410	681	PA	Beaver	42	185	102	195
OK	McClain	430	709	407	678	PA	Bedford	57	120	75	132
OK	McCurtain	404	747	427	727	PA	Berks	139	241	115	208
OK	McIntosh	445	726	435	708	PA	Blair	57	120	75	96
OK	Murray	430	789	484	766	PA	Bradford	19	21	27	27
OK	Muskogee	445	726	435	708	PA	Bucks	28	31	64	70
OK	Noble	472	756	460	735	PA	Butler	42	45	26	72
OK	Nowata	451	732	442	715	PA	Cambria	57	63	75	97
OK	Oklfuskee	529	912	421	692	PA	Cameron	35	38	28	28
OK	Oklahoma	417	696	407	678	PA	Carbon	84	175	114	207
OK	Okmulgee	529	912	421	692	PA	Centre	26	139	20	137
OK	Osage	515	895	410	681	PA	Chester	28	200	64	70
OK	Ottawa	414	782	410	770	PA	Clarion	52	58	38	38
OK	Pawnee	472	756	410	681	PA	Clearfield	26	29	20	20
OK	Payne	472	756	460	735	PA	Clinton	44	48	33	33
OK	Pittsburg	466	749	455	729	PA	Columbia	78	88	1	1
OK	Pontotoc	478	763	466	743	PA	Crawford	117	219	111	204
OK	Pottawatomie	417	773	407	678	PA	Cumberland	43	47	91	184
OK	Pushmataha	466	853	455	840	PA	Dauphin	43	47	91	184
OK	Roger Mills	440	720	429	701	PA	Delaware	28	144	64	70
OK	Rogers	414	693	410	681	PA	Elk	125	227	123	216
OK	Seminole	478	810	407	678	PA	Erie	106	131	84	129
OK	Sequoyah	421	845	409	680	PA	Fayette	100	122	26	26
OK	Stephens	497	792	486	768	PA	Forest	52	58	38	38
OK	Texas	587	973	572	950	PA	Franklin	72	80	52	112
OK	Tillman	493	831	482	821	PA	Fulton	72	80	52	53
OK	Tulsa	414	693	410	681	PA	Greene	100	150	99	192
OK	Wagoner	445	726	410	681	PA	Huntingdon	110	152	85	144
OK	Washington	451	732	442	715	PA	Indiana	42	110	26	163
OK	Washita	475	760	463	740	PA	Jefferson	26	29	20	20
OK	Woods	429	821	416	812	PA	Juniata	110	153	85	145
OK	Woodward	469	752	457	731	PA	Lackawanna	47	51	1	1
OR	Baker	759	1387	774	1373	PA	Lancaster	140	242	131	224
OR	Benton	727	1240	713	1222	PA	Lawrence	129	231	103	196
OR	Clackamas	689	1201	695	1203	PA	Lebanon	43	202	91	184
OR	Clatsop	689	1318	695	1307	PA	Lehigh	84	96	114	207
OR	Columbia	689	1253	695	1203	PA	Luzerne	78	88	1	1
OR	Coos	738	1313	724	1303	PA	Lycoming	44	48	33	33
OR	Crook	719	1232	705	1213	PA	McKean	35	38	28	28
OR	Curry	738	1252	724	1234	PA	Mercer	345	199	339	533
OR	Deschutes	719	1232	705	1213	PA	Mifflin	110	153	85	145
OR	Douglas	782	1359	766	1350	PA	Monroe	84	191	1	1
OR	Gilliam	748	1264	733	1244	PA	Montgomery	28	31	64	70
OR	Grant	806	1407	793	1392	PA	Montour	8	9	1	1
OR	Harney	719	1340	705	1327	PA	Northampton	84	96	114	207
OR	Hood River	748	1341	733	1328	PA	Northumberland	8	9	4	4
OR	Jackson	752	1269	737	1249	PA	Perry	43	47	91	184
OR	Jefferson	719	1232	705	1213	PA	Philadelphia	28	31	64	70
OR	Josephine	752	1269	737	1249	PA	Pike	86	98	63	67
OR	Klamath	743	1258	729	1239	PA	Potter	35	38	28	28
OR	Lake	743	1258	729	1239	PA	Schuykill	8	9	1	71
OR	Lane	782	1360	766	1349	PA	Snyder	8	9	4	4
OR	Lincoln	783	1363	767	1352	PA	Somerset	57	63	75	97
OR	Linn	727	1240	713	1222	PA	Sullivan	19	21	27	27
OR	Malheur	729	1243	716	1226	PA	Susquehanna	19	84	27	126
OR	Marion	705	1218	782	1381	PA	Tioga	128	230	118	211
OR	Morrow	717	1299	703	1286	PA	Union	8	9	4	4
OR	Multnomah	689	1201	695	1203	PA	Venango	52	58	38	38
OR	Polk	705	1218	782	1381	PA	Warren	106	131	84	130
OR	Sherman	748	1264	733	1244	PA	Washington	100	122	26	26
OR	Tillamook	783	1364	767	1353	PA	Wayne	47	51	1	140
OR	Umatilla	717	1299	703	1286	PA	Westmoreland	42	110	26	26
OR	Union	759	1277	742	1256	PA	Wyoming	78	159	1	1
OR	Wallowa	759	1277	742	1256	PA	York	48	52	92	185
OR	Wasco	748	1264	733	1244	RI	Bristol	20	22	96	189
OR	Washington	689	1201	695	1203	RI	Kent	20	22	96	189
OR	Wheeler	719	1232	705	1213	RI	Newport	68	75	125	218
OR	Yamhill	705	1366	695	1203	RI	Providence	20	22	96	189
PA	Adams	48	52	92	185	RI	Washington	20	104	95	188
PA	Allegheny	42	45	26	26	SC	Abbeville	187	290	171	264
PA	Armstrong	42	45	26	26	SC	Aiken	152	254	149	242

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		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
SC	Allendale	176	426	159	408	SD	Hand	600	1143	583	1130
SC	Anderson	182	285	207	310	SD	Hanson	615	1011	599	984
SC	Bamberg	176	279	159	252	SD	Harding	640	1047	626	1018
SC	Barnwell	152	382	149	242	SD	Hughes	629	1029	613	1000
SC	Beaufort	143	354	150	418	SD	Hutchinson	578	1022	564	993
SC	Berkeley	212	322	176	269	SD	Hyde	600	1143	583	1130
SC	Calhoun	176	279	159	252	SD	Jackson	558	943	542	919
SC	Charleston	212	322	176	269	SD	Jerauld	600	991	583	965
SC	Cherokee	191	296	170	263	SD	Jones	629	1029	613	1000
SC	Chester	244	375	236	428	SD	Kingsbury	610	1004	593	977
SC	Chesterfield	184	380	167	375	SD	Lake	544	1125	527	1114
SC	Clarendon	196	306	183	279	SD	Lawrence	586	972	571	948
SC	Colleton	212	322	176	269	SD	Lincoln	544	927	527	903
SC	Darlington	184	287	167	260	SD	Lyman	615	1150	599	1138
SC	Dillon	199	309	185	281	SD	Marshall	572	1163	648	1152
SC	Dorchester	212	322	176	269	SD	McCook	544	927	527	903
SC	Edgefield	152	254	149	242	SD	McPherson	572	956	558	934
SC	Fairfield	160	262	144	237	SD	Meade	558	1032	542	1003
SC	Florence	184	287	167	260	SD	Mellette	595	985	580	961
SC	Georgetown	246	378	228	367	SD	Miner	544	927	527	903
SC	Greenville	182	285	170	263	SD	Minnehaha	544	927	527	903
SC	Greenwood	187	290	171	264	SD	Moody	544	927	527	903
SC	Hampton	212	322	176	360	SD	Pennington	558	943	542	919
SC	Horry	246	378	228	368	SD	Perkins	640	1047	626	1018
SC	Jasper	143	354	150	243	SD	Potter	648	1055	632	1032
SC	Kershaw	249	400	231	387	SD	Roberts	590	976	574	1029
SC	Lancaster	249	401	231	388	SD	Sanborn	615	1011	599	984
SC	Laurens	187	290	171	373	SD	Shannon	623	1020	607	992
SC	Lee	196	306	183	352	SD	Spink	572	1069	558	1060
SC	Lexington	160	262	144	237	SD	Stanley	629	1029	613	1000
SC	Marion	199	309	185	281	SD	Sully	629	1029	613	1000
SC	Marlboro	184	450	244	436	SD	Todd	595	985	580	961
SC	McCormick	187	290	171	264	SD	Tripp	595	985	580	961
SC	Newberry	160	388	144	324	SD	Turner	544	927	527	903
SC	Oconee	182	285	207	310	SD	Union	544	927	527	903
SC	Orangeburg	176	279	159	252	SD	Walworth	648	1055	632	1031
SC	Pickens	182	285	170	263	SD	Yankton	578	963	564	940
SC	Richland	160	262	144	237	SD	Ziebach	629	1029	613	1000
SC	Saluda	187	290	171	264	TN	Anderson	226	341	132	225
SC	Spartanburg	191	296	170	263	TN	Bedford	260	459	251	443
SC	Sumter	196	306	183	279	TN	Benton	115	370	222	339
SC	Union	191	399	170	381	TN	Bledsoe	223	337	182	278
SC	Williamsburg	184	287	167	260	TN	Blount	147	389	132	225
SC	York	244	375	173	266	TN	Bradley	173	276	156	249
SD	Aurora	615	1011	599	984	TN	Campbell	226	440	36	425
SD	Beadle	600	991	583	965	TN	Cannon	211	321	214	345
SD	Bennett	623	1020	607	992	TN	Carroll	115	370	222	340
SD	Bon Homme	578	1022	564	993	TN	Carter	169	272	179	273
SD	Brookings	610	1004	593	977	TN	Cheatham	148	250	137	230
SD	Brown	572	956	558	934	TN	Chester	188	291	172	265
SD	Brule	615	1150	599	1138	TN	Claiborne	96	424	238	405
SD	Buffalo	615	1150	599	1138	TN	Clay	215	427	198	410
SD	Butte	558	1032	542	1003	TN	Cocke	252	430	132	343
SD	Campbell	648	1055	632	1031	TN	Coffee	239	367	220	333
SD	Charles Mix	615	1011	599	984	TN	Crockett	188	291	172	265
SD	Clark	568	953	554	931	TN	Cumberland	223	337	206	309
SD	Clay	578	963	564	940	TN	Davidson	148	250	137	230
SD	Codington	568	953	554	931	TN	De Kalb	211	357	214	317
SD	Corson	648	1055	632	1031	TN	Decatur	188	291	172	362
SD	Custer	558	943	542	919	TN	Dickson	148	304	137	230
SD	Davison	615	1011	599	984	TN	Dyer	248	393	230	384
SD	Day	572	1162	648	1151	TN	Fayette	146	248	399	670
SD	Deuel	568	953	554	931	TN	Fentress	223	408	206	309
SD	Dewey	648	1055	632	1031	TN	Franklin	239	367	220	334
SD	Douglas	615	1011	599	984	TN	Gibson	188	291	172	265
SD	Edmunds	572	956	558	934	TN	Giles	208	434	192	417
SD	Fall River	558	943	542	919	TN	Grainger	217	328	132	225
SD	Faulk	572	1097	558	1088	TN	Greene	252	431	256	448
SD	Grant	568	1149	554	1136	TN	Grundy	239	367	220	334
SD	Gregory	595	1002	580	975	TN	Hamblen	217	328	132	225
SD	Haakon	629	1029	613	1000	TN	Hamilton	141	243	182	278
SD	Hamlin	568	953	554	931	TN	Hancock	217	425	238	430

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
TN	Hardeman	188	433	172	416	TX	Baylor	420	765	468	745
TN	Hardin	245	377	227	357	TX	Bee	513	869	498	854
TN	Hawkins	151	253	179	273	TX	Bell	452	733	446	719
TN	Haywood	188	447	241	433	TX	Bexar	410	689	395	667
TN	Henderson	188	291	172	265	TX	Blanco	506	804	493	781
TN	Henry	115	403	89	390	TX	Borden	406	685	392	664
TN	Hickman	148	304	137	230	TX	Bosque	462	772	451	751
TN	Houston	234	361	168	406	TX	Bowie	404	683	427	699
TN	Humphreys	148	304	137	230	TX	Brazoria	505	822	405	791
TN	Jackson	215	390	198	382	TX	Brazos	464	746	453	726
TN	Jefferson	217	328	132	225	TX	Brewster	526	909	520	896
TN	Johnson	194	301	179	273	TX	Briscoe	405	684	404	675
TN	Knox	147	249	132	225	TX	Brooks	437	716	424	695
TN	Lake	248	393	230	384	TX	Brown	468	751	456	730
TN	Lauderdale	248	394	230	385	TX	Burleson	464	746	453	726
TN	Lawrence	232	443	234	426	TX	Burnet	425	704	403	674
TN	Lewis	208	318	192	288	TX	Caldwell	510	809	403	831
TN	Lincoln	210	320	194	363	TX	Calhoun	433	897	507	883
TN	Loudon	147	249	132	225	TX	Callahan	428	707	415	686
TN	Macon	231	385	137	372	TX	Cameron	520	903	514	890
TN	Madison	188	291	172	265	TX	Camp	465	890	454	874
TN	Marion	141	243	182	278	TX	Carson	405	684	404	675
TN	Marshall	208	318	192	365	TX	Cass	485	776	441	754
TN	Maury	208	318	192	288	TX	Castro	481	878	470	863
TN	McMinn	147	353	211	314	TX	Chambers	408	882	426	847
TN	McNairy	245	377	227	358	TX	Cherokee	509	893	504	880
TN	Melgs	147	353	211	314	TX	Childress	512	829	497	818
TN	Monroe	147	353	211	314	TX	Clay	420	699	402	673
TN	Montgomery	234	361	168	261	TX	Cochran	406	885	392	867
TN	Moore	239	367	220	333	TX	Coke	426	705	413	684
TN	Morgan	226	341	132	225	TX	Coleman	468	751	456	730
TN	Obion	181	284	165	258	TX	Collin	453	734	418	689
TN	Overton	215	326	198	295	TX	Collingsworth	524	907	518	894
TN	Perry	232	352	210	313	TX	Colorado	490	783	479	760
TN	Pickett	215	326	198	295	TX	Comal	517	900	395	667
TN	Polk	173	276	156	249	TX	Comanche	507	805	494	785
TN	Putnam	215	326	198	295	TX	Concho	426	705	413	684
TN	Rhea	226	416	182	278	TX	Cooke	495	790	418	868
TN	Roane	226	341	132	400	TX	Coryell	452	733	446	719
TN	Robertson	148	250	137	230	TX	Cottle	512	829	497	818
TN	Rutherford	211	321	137	230	TX	Crane	444	725	434	707
TN	Scott	263	462	248	440	TX	Crockett	426	705	413	684
TN	Sequatchie	141	243	182	278	TX	Crosby	406	861	392	848
TN	Sevier	147	249	132	225	TX	Culbertson	415	694	398	669
TN	Shelby	146	248	399	670	TX	Dallam	405	717	404	696
TN	Smith	231	371	137	321	TX	Dallas	453	734	418	689
TN	Stewart	234	361	168	261	TX	Dawson	406	685	392	796
TN	Sullivan	151	253	179	273	TX	De Witt	433	712	419	690
TN	Sumner	231	351	137	230	TX	Deaf Smith	491	784	480	761
TN	Tipton	146	248	399	670	TX	Delta	438	718	425	697
TN	Trousdale	231	351	137	321	TX	Denton	495	790	418	689
TN	Unicoi	169	272	179	273	TX	Dickens	406	861	392	848
TN	Union	147	249	132	225	TX	Dimmit	531	914	510	886
TN	Van Buren	211	357	214	317	TX	Donley	405	684	404	675
TN	Warren	211	357	214	317	TX	Duval	437	716	424	695
TN	Washington	169	272	179	273	TX	Eastland	428	707	415	803
TN	Wayne	232	352	210	313	TX	Ector	444	725	434	707
TN	Weakley	181	412	165	398	TX	Edwards	506	804	493	782
TN	White	215	451	245	437	TX	El Paso	415	694	398	669
TN	Williamson	148	250	137	230	TX	Ellis	453	734	418	689
TN	Wilson	231	371	137	230	TX	Erath	507	805	494	786
TX	Anderson	509	808	496	794	TX	Falls	462	744	446	719
TX	Andrews	508	806	495	790	TX	Fannin	436	715	423	694
TX	Angelina	449	730	439	712	TX	Fayette	490	783	479	760
TX	Aransas	437	716	424	695	TX	Fisher	503	888	491	871
TX	Archer	420	699	402	673	TX	Floyd	481	767	470	747
TX	Armstrong	405	684	404	675	TX	Foard	458	739	445	718
TX	Atascosa	410	689	395	667	TX	Fort Bend	408	687	405	676
TX	Austin	408	687	405	676	TX	Franklin	465	748	454	728
TX	Bailey	406	685	392	664	TX	Freestone	489	781	477	758
TX	Bandera	410	689	395	667	TX	Frio	410	832	395	822
TX	Bastrop	425	704	403	674	TX	Gaines	508	806	495	805
						TX	Galveston	532	915	405	836

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
TX	Garza	406	685	392	664	TX	Matagorda	505	803	405	779
TX	Gillespie	506	804	493	781	TX	Maverick	516	898	508	884
TX	Glasscock	518	901	511	887	TX	McCulloch	426	705	413	684
TX	Goliad	433	712	419	690	TX	McLennan	462	744	451	724
TX	Gonzales	410	779	395	875	TX	McMullen	410	689	395	667
TX	Gray	460	742	449	722	TX	Medina	410	689	395	667
TX	Grayson	436	715	423	694	TX	Menard	426	705	413	684
TX	Gregg	454	735	441	714	TX	Midland	492	786	481	763
TX	Grimes	464	871	453	856	TX	Milam	452	733	446	719
TX	Guadalupe	410	779	395	667	TX	Mills	468	751	456	730
TX	Hale	481	767	470	747	TX	Mitchell	503	800	491	776
TX	Hall	512	830	497	819	TX	Montague	420	699	402	673
TX	Hamilton	462	772	451	751	TX	Montgomery	408	687	405	676
TX	Hansford	405	841	404	675	TX	Moore	405	717	404	696
TX	Hardeman	458	739	445	718	TX	Morris	465	748	454	793
TX	Hardin	413	692	426	698	TX	Motley	406	685	392	664
TX	Harris	408	687	405	676	TX	Nacogdoches	447	728	437	710
TX	Harrison	485	840	441	714	TX	Navarro	489	781	477	758
TX	Hartley	405	717	404	696	TX	Newton	413	692	426	698
TX	Haskell	428	769	415	749	TX	Nolan	503	800	491	776
TX	Hays	510	809	403	674	TX	Nueces	437	716	424	695
TX	Hemphill	460	742	449	722	TX	Ochiltree	405	842	404	800
TX	Henderson	441	819	431	703	TX	Oldham	405	684	404	675
TX	Hidalgo	427	706	414	685	TX	Orange	413	692	426	698
TX	Hill	462	850	451	778	TX	Palo Pinto	479	764	467	744
TX	Hockley	406	685	392	664	TX	Panola	454	892	523	899
TX	Hood	434	713	432	705	TX	Parker	434	713	432	705
TX	Hopkins	453	834	418	837	TX	Parmer	491	784	480	761
TX	Houston	509	808	496	795	TX	Pecos	492	891	500	876
TX	Howard	518	901	511	887	TX	Polk	449	730	439	712
TX	Hudspeth	415	694	398	669	TX	Potter	405	684	404	675
TX	Hunt	453	734	418	689	TX	Presidio	526	909	520	896
TX	Hutchinson	405	684	404	675	TX	Rains	453	734	418	689
TX	Irion	426	705	413	684	TX	Randall	405	684	404	675
TX	Jack	479	764	467	744	TX	Reagan	426	705	413	684
TX	Jackson	433	712	419	797	TX	Real	506	804	493	782
TX	Jasper	413	692	426	698	TX	Red River	438	718	425	697
TX	Jeff Davis	526	909	520	896	TX	Reeves	444	725	434	707
TX	Jefferson	413	692	426	698	TX	Refugio	433	852	419	839
TX	Jim Hogg	538	921	526	902	TX	Roberts	460	742	449	722
TX	Jim Wells	437	716	424	695	TX	Robertson	464	746	453	726
TX	Johnson	434	713	432	705	TX	Rockwall	453	734	418	689
TX	Jones	428	769	415	749	TX	Runnels	426	851	413	838
TX	Karnes	513	870	498	855	TX	Rusk	454	874	431	852
TX	Kaufman	453	734	418	689	TX	Sabine	447	826	437	814
TX	Kendall	410	689	395	667	TX	San Augustine	447	728	437	710
TX	Kenedy	437	716	424	695	TX	San Jacinto	408	687	405	676
TX	Kent	428	873	415	858	TX	San Patricio	437	716	424	695
TX	Kerr	506	804	493	782	TX	San Saba	468	827	456	815
TX	Kimble	506	857	493	844	TX	Schleicher	426	705	413	684
TX	King	406	685	392	664	TX	Scurry	519	902	512	888
TX	Kinney	516	899	509	885	TX	Shackelford	428	707	415	686
TX	Kleberg	437	716	424	695	TX	Shelby	447	728	437	710
TX	Knox	420	765	468	745	TX	Sherman	405	717	404	696
TX	LaSalle	410	832	395	822	TX	Smith	441	721	431	703
TX	Lamar	438	718	425	697	TX	Somervell	434	713	432	705
TX	Lamb	406	833	392	823	TX	Starr	427	706	414	685
TX	Lampasas	452	859	446	835	TX	Stephens	428	707	415	686
TX	Lavaca	433	883	419	865	TX	Sterling	426	896	506	882
TX	Lee	425	884	403	870	TX	Stonewall	428	873	415	858
TX	Leon	501	797	489	772	TX	Sutton	426	705	413	684
TX	Liberty	408	687	405	676	TX	Swisher	405	684	404	675
TX	Limestone	462	744	451	724	TX	Tarrant	434	713	432	705
TX	Lipscomb	469	752	457	731	TX	Taylor	428	707	415	686
TX	Live Oak	437	716	424	695	TX	Terrell	492	891	500	876
TX	Llano	425	704	403	674	TX	Terry	514	875	499	860
TX	Loving	415	694	398	669	TX	Throckmorton	420	785	402	762
TX	Lubbock	406	685	392	664	TX	Titus	465	748	454	728
TX	Lynn	406	685	392	664	TX	Tom Green	426	705	413	684
TX	Madison	501	797	489	772	TX	Travis	425	704	403	674
TX	Marion	485	776	441	754	TX	Trinity	449	730	439	712
TX	Martin	492	786	481	763	TX	Tyler	413	863	426	789
TX	Mason	506	804	493	781	TX	Upshur	454	735	441	714

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
TX	Upton	492	786	481	763	VA	Carroll	73	81	53	54
TX	Uvalde	536	919	522	898	VA	Charles City	33	36	23	23
TX	Val Verde	516	899	509	885	VA	Charlotte	33	205	97	190
TX	Van Zandt	441	721	418	689	VA	Chesapeake City	6	7	45	45
TX	Victoria	433	712	419	690	VA	Chesterfield	33	36	23	23
TX	Walker	449	825	405	676	VA	Clarke	25	28	19	19
TX	Waller	408	687	405	676	VA	Craig	14	16	11	11
TX	Ward	444	725	434	707	VA	Cuiperper	99	121	76	99
TX	Washington	464	746	453	808	VA	Cumberland	33	205	97	190
TX	Webb	538	921	526	902	VA	Dickenson	55	61	40	40
TX	Wharton	505	803	405	780	VA	Dinwiddie	77	87	23	23
TX	Wheeler	460	742	449	809	VA	Essex	33	36	23	23
TX	Wichita	420	699	402	673	VA	Fairfax	69	76	16	16
TX	Wilbarger	458	739	445	718	VA	Fauquier	109	136	16	174
TX	Willacy	520	903	514	890	VA	Floyd	14	16	11	11
TX	Williamson	425	704	403	674	VA	Fluvanna	99	121	76	98
TX	Wilson	410	689	395	667	VA	Franklin	14	16	11	11
TX	Winkler	444	872	434	857	VA	Frederick	25	28	19	19
TX	Wise	495	881	432	828	VA	Giles	70	77	49	50
TX	Wood	441	721	431	703	VA	Gloucester	5	6	45	45
TX	Yoakum	514	876	499	861	VA	Goochland	33	36	23	23
TX	Young	420	785	402	762	VA	Grayson	73	81	53	54
TX	Zapata	538	921	526	902	VA	Greene	99	121	76	98
TX	Zavala	410	689	395	667	VA	Greensville	130	232	120	213
UT	Beaver	755	1272	739	1252	VA	Halifax	71	79	51	52
UT	Box Elder	744	1317	694	1270	VA	Hampton City	5	6	45	45
UT	Cache	715	1228	701	1209	VA	Hanover	33	36	23	23
UT	Carbon	809	1410	797	1396	VA	Henrico	33	36	23	23
UT	Daggett	799	1400	788	1387	VA	Henry	79	90	55	58
UT	Davis	744	1260	694	1202	VA	Highland	97	117	73	91
UT	Duchesne	708	1259	694	1240	VA	Isle Of Wight	6	135	45	45
UT	Emery	809	1410	797	1396	VA	James City	5	214	45	45
UT	Garfield	707	1290	693	1267	VA	King And Queen	33	36	23	23
UT	Grand	711	1297	697	1283	VA	King George	135	237	16	16
UT	Iron	755	1272	739	1252	VA	King William	33	36	23	23
UT	Juab	703	1216	689	1197	VA	Lancaster	33	158	23	147
UT	Kane	707	1290	693	1267	VA	Lee	118	220	112	205
UT	Millard	703	1370	689	1356	VA	Loudoun	69	211	16	16
UT	Morgan	744	1260	694	1202	VA	Louisa	99	121	76	98
UT	Plute	707	1290	693	1267	VA	Lunenburg	71	79	51	52
UT	Rich	744	1260	694	1202	VA	Madison	99	121	76	98
UT	Salt Lake	708	1221	694	1202	VA	Mathews	5	6	45	45
UT	San Juan	740	1255	726	1236	VA	Mecklenburg	71	79	51	52
UT	Sanpete	703	1216	689	1197	VA	Middlesex	33	158	23	147
UT	Sevier	703	1216	689	1197	VA	Montgomery	70	77	49	50
UT	Summit	708	1221	694	1202	VA	Nansemond	6	135	45	45
UT	Tooele	708	1221	694	1202	VA	Nelson	99	121	76	98
UT	Uintah	708	1259	694	1240	VA	New Kent	33	36	23	23
UT	Utah	703	1216	689	1197	VA	Newport News	5	6	45	45
UT	Wasatch	708	1325	694	1340	VA	Norfolk/Portsmouth	6	7	45	45
UT	Washington	707	1220	693	1201	VA	Northampton	137	239	129	222
UT	Wayne	703	1216	689	1197	VA	Northumberland	33	158	23	147
UT	Weber	744	1260	694	1202	VA	Nottoway	33	36	23	23
VA	Accomack	137	239	129	222	VA	Orange	99	121	76	98
VA	Albemarle	99	121	76	98	VA	Page	63	70	46	47
VA	Alexandria City	69	76	16	16	VA	Patrick	79	90	55	58
VA	Alleghany	30	33	24	24	VA	Pittsylvania	132	234	126	219
VA	Amelia	33	36	23	23	VA	Powhatan	33	36	23	23
VA	Amherst	14	82	11	55	VA	Prince Edward	33	205	97	190
VA	Appomattox	14	82	11	55	VA	Prince George	77	87	23	23
VA	Arlington	69	76	16	16	VA	Prince William	109	136	16	16
VA	Augusta	97	117	73	91	VA	Pulaski	70	130	82	122
VA	Bath	30	33	24	24	VA	Rappahannock	99	121	76	99
VA	Bedford	14	82	11	55	VA	Richmond	33	36	23	23
VA	Bland	39	42	31	31	VA	Roanoke	14	16	11	11
VA	Botetcourt	14	16	11	11	VA	Rockbridge	97	117	73	92
VA	Brunswick	130	232	120	213	VA	Rockingham	63	70	46	47
VA	Buchanan	39	173	31	162	VA	Russell	151	174	179	124
VA	Buckingham	99	121	76	98	VA	Scott	151	253	179	273
VA	Campbell	14	82	11	55	VA	Shenandoah	25	28	19	133
VA	Caroline	135	237	16	16	VA	Smyth	151	204	179	176
						VA	Southampton	6	135	45	45
						VA	Spotsylvania	135	237	16	16

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State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
VA	Stafford	135	237	16	16	WI	Burnett	314	511	297	489
VA	Surry	77	87	23	23	WI	Calumet	355	550	291	490
VA	Sussex	77	87	23	23	WI	Chippewa	298	495	273	466
VA	Tazewell	39	42	31	31	WI	Clark	282	480	263	455
VA	Virginia Beach	6	7	45	45	WI	Columbia	301	498	286	544
VA	Warren	134	236	127	220	WI	Crawford	350	614	327	609
VA	Washington	151	253	179	273	WI	Dane	301	498	286	479
VA	Westmoreland	33	36	16	16	WI	Dodge	306	503	354	561
VA	Wise	55	61	40	40	WI	Door	278	609	260	607
VA	Wythe	70	130	82	123	WI	Douglas	289	486	267	460
VA	York	5	6	45	45	WI	Dunn	298	495	273	466
VT	Addison	49	53	34	34	WI	Eau Claire	298	495	273	466
VT	Bennington	10	141	88	159	WI	Florence	315	513	299	493
VT	Caledonia	103	126	78	105	WI	Fond Du Lac	306	503	291	484
VT	Chittenden	49	53	34	34	WI	Forest	284	482	265	457
VT	Essex	138	240	130	223	WI	Grant	301	567	342	536
VT	Franklin	49	53	34	34	WI	Green	326	523	309	502
VT	Grand Isle	49	53	34	34	WI	Green Lake	306	503	291	484
VT	Lamoille	103	126	78	106	WI	Iowa	301	498	286	479
VT	Orange	15	17	14	14	WI	Iron	284	659	366	641
VT	Orleans	103	192	78	181	WI	Jackson	399	678	389	661
VT	Rutland	122	224	88	160	WI	Jefferson	387	596	362	592
VT	Washington	15	190	14	178	WI	Juneau	391	653	364	636
VT	Windham	90	105	67	78	WI	Kenosha	382	587	356	570
VT	Windsor	15	17	14	14	WI	Kewaunee	278	476	260	452
WA	Adams	747	1382	761	1322	WI	LaCrosse	290	487	268	461
WA	Asotin	694	1206	681	1188	WI	Lafayette	326	523	309	502
WA	Benton	702	1215	761	1321	WI	Langlade	379	583	353	558
WA	Chelan	747	1263	732	1243	WI	Lincoln	282	588	357	573
WA	Clallam	785	1374	769	1360	WI	Manitowoc	355	550	384	658
WA	Clark	689	1333	695	1203	WI	Marathon	282	588	357	572
WA	Columbia	717	1230	703	1211	WI	Marquette	315	513	299	493
WA	Cowlitz	689	1253	695	1300	WI	Marquette	301	498	286	544
WA	Douglas	747	1263	732	1243	WI	Menominee	379	583	353	559
WA	Ferry	698	1274	685	1254	WI	Milwaukee	280	478	354	560
WA	Franklin	702	1215	761	1321	WI	Monroe	290	487	268	461
WA	Garfield	694	1206	681	1188	WI	Oconto	278	476	260	452
WA	Grant	747	1263	732	1243	WI	Oneida	284	482	265	457
WA	Grays Harbor	758	1352	741	1342	WI	Outagamie	344	540	291	490
WA	Island	736	1250	714	1223	WI	Ozaukee	280	478	354	560
WA	Jefferson	785	1375	769	1361	WI	Pepin	298	637	273	586
WA	King	736	1250	714	1223	WI	Pierce	370	573	350	552
WA	Kitsap	762	1282	745	1261	WI	Polk	286	561	297	600
WA	Kititas	739	1254	725	1235	WI	Portage	400	679	390	662
WA	Klickitat	748	1264	733	1244	WI	Price	357	608	331	606
WA	Lewis	758	1276	741	1255	WI	Racine	382	587	356	571
WA	Lincoln	698	1211	685	1193	WI	Richland	301	567	342	536
WA	Mason	762	1282	745	1261	WI	Rock	326	665	309	644
WA	Okanogan	747	1324	732	1313	WI	Rusk	374	578	348	546
WA	Pacific	758	1319	741	1308	WI	Sauk	301	498	286	544
WA	Pend Oreille	698	1211	685	1193	WI	Sawyer	357	553	331	523
WA	Pierce	794	1395	783	1382	WI	Shawano	379	583	353	559
WA	San Juan	736	1250	714	1223	WI	Sheboygan	355	671	383	657
WA	Skagit	736	1250	714	1223	WI	St. Croix	370	573	275	468
WA	Skamania	748	1264	733	1244	WI	Taylor	282	480	263	455
WA	Spokane	736	1250	714	1223	WI	Trempealeau	290	629	268	619
WA	Spokane	698	1211	685	1193	WI	Vernon	290	487	268	461
WA	Stevens	698	1274	685	1254	WI	Vilas	284	482	265	457
WA	Thurston	758	1276	741	1255	WI	Walworth	387	597	362	593
WA	Wahkiakum	689	1253	695	1300	WI	Washburn	314	511	297	489
WA	Walla Walla	717	1230	703	1211	WI	Washington	280	478	354	560
WA	Whatcom	815	1416	802	1401	WI	Waukesha	280	478	354	560
WA	Whitman	784	1372	768	1358	WI	Waupaca	344	540	291	490
WA	Yakima	739	1254	725	1235	WI	Waushara	306	565	291	574
WI	Adams	391	652	364	635	WI	Winnebago	306	565	291	490
WI	Ashland	357	553	331	523	WI	Wood	282	480	263	455
WI	Barron	374	578	348	545	WV	Barbour	50	54	35	35
WI	Bayfield	357	553	331	523	WV	Berkeley	25	106	68	79
WI	Brown	278	476	260	452	WV	Boone	7	8	50	51
WI	Buffalo	298	495	273	466	WV	Braxton	92	109	70	119
						WV	Brooke	24	26	57	83
						WV	Cabell	46	50	3	3

Table I. Alphabetical list of State, county, and health service area numbers for four alternative solutions – Con.

State	County	Service area number				State	County	Service area number			
		800 unlinked	1400 unlinked	800 linked	1400 linked			800 unlinked	1400 unlinked	800 linked	1400 linked
WV	Calhoun	34	118	43	43	WV	Roane	34	118	43	131
WV	Clay	7	8	50	51	WV	Summers	60	194	42	183
WV	Doddridge	92	109	70	84	WV	Taylor	31	197	94	187
WV	Fayette	60	66	42	42	WV	Tucker	50	54	35	35
WV	Gilmer	92	109	43	43	WV	Tyler	24	46	32	32
WV	Grant	1	146	48	143	WV	Upshur	92	196	93	186
WV	Greenbrier	30	154	24	146	WV	Wayne	46	50	3	3
WV	Hampshire	25	28	19	19	WV	Webster	7	134	50	142
WV	Hancock	380	584	57	83	WV	Wetzel	24	46	32	32
WV	Hardy	1	146	48	143	WV	Wirt	34	37	43	43
WV	Harrison	92	109	70	84	WV	Wood	34	37	43	43
WV	Jackson	34	156	43	154	WV	Wyoming	60	66	42	42
WV	Jefferson	25	106	68	80	WY	Albany	771	1295	752	1281
WV	Kanawha	7	8	50	51	WY	Big Horn	749	1266	734	1246
WV	Lewis	92	109	70	85	WY	Campbell	586	1348	571	1335
WV	Lincoln	46	50	3	3	WY	Carbon	771	1296	752	1282
WV	Logan	13	165	10	153	WY	Converse	726	1239	712	1221
WV	Marion	31	34	25	111	WY	Crook	586	972	571	948
WV	Marshall	24	142	57	60	WY	Fremont	777	1351	759	1341
WV	Mason	283	481	264	456	WY	Goshen	580	1300	566	1287
WV	McDowell	39	42	31	31	WY	Hot Springs	777	1322	759	1311
WV	Mercer	39	42	31	31	WY	Johnson	770	1291	751	1274
WV	Mineral	1	1	48	49	WY	Laramie	741	1256	727	1237
WV	Mingo	13	14	10	9	WY	Lincoln	775	1314	757	1304
WV	Monongalia	31	34	25	25	WY	Natrona	726	1239	712	1221
WV	Monroe	30	154	24	146	WY	Niobrara	580	1301	566	1288
WV	Morgan	25	188	19	175	WY	Park	749	1266	734	1246
WV	Nicholas	7	134	50	51	WY	Platte	797	1398	786	1385
WV	Ohio	24	26	57	60	WY	Sheridan	770	1291	751	1275
WV	Pendleton	63	70	46	47	WY	Sublette	775	1315	757	1305
WV	Pleasants	34	37	43	43	WY	Sweetwater	799	1400	788	1387
WV	Pocahontas	50	164	35	151	WY	Teton	775	1315	757	1305
WV	Preston	31	34	25	25	WY	Uinta	792	1393	792	1391
WV	Putnam	7	8	50	51	WY	Washakie	777	1323	759	1312
WV	Raleigh	60	66	42	42	WY	Weston	804	1405	791	1390
WV	Randolph	50	54	35	35						
WV	Ritchie	34	37	43	43						

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
150	AL	Jefferson	252	5.2	2.7	421	AR	Sebastian	700	7.3	3.9
150	AL	Shelby	252	5.2	4.6	421	OK	Le Flore	700	7.3	9.5
150	AL	St. Clair	252	5.2	15.1	421	AR	Crawford	700	7.3	3.4
150	AL	Chilton	252	5.2	19.8	421	AR	Logan	700	7.3	9.4
150	AL	Bibb	395	5.2	29.0	421	AR	Franklin	700	7.3	6.2
150	AL	Blount	396	5.2	6.7	421	OK	Sequoyah	845	7.3	10.8
150	AL	Cullman	397	5.2	11.6	421	OK	Haskell	866	7.3	20.4
150	AL	Walker	441	5.2	4.2	421	AR	Scott	887	7.3	5.9
156	AL	Tuscaloosa	258	11.4	6.7	432	AR	Pulaski	711	8.2	4.1
156	AL	Hale	258	11.4	20.8	432	AR	Saline	711	8.2	4.4
156	AL	Greene	258	11.4	19.5	432	AR	Faulkner	711	8.2	4.0
156	AL	Pickens	391	11.4	21.1	432	AR	Lonoke	711	8.2	13.7
161	AL	Mobile	264	7.0	4.1	432	AR	Van Buren	711	8.2	20.2
161	AL	Clarke	264	7.0	10.7	432	AR	Grant	711	8.2	45.3
161	AL	Washington	264	7.0	15.4	432	AR	Prairie	711	8.2	60.9
161	AL	Baldwin	409	7.0	12.1	432	AR	Perry	711	8.2	20.3
161	AL	Monroe	449	7.0	11.3	432	AR	Conway	849	8.2	5.6
162	AL	Houston	265	9.9	5.7	442	AR	Pope	722	22.1	20.8
162	AL	Dale	265	9.9	5.2	442	AR	Yell	722	22.1	24.3
162	AL	Coffee	265	9.9	15.0	446	AR	Washington	727	11.2	6.8
162	AL	Geneva	265	9.9	10.6	446	AR	Madison	727	11.2	8.3
162	AL	Henry	265	9.9	4.6	446	AR	Benton	802	11.2	8.9
162	AL	Barbour	411	9.9	17.4	446	OK	Delaware	802	11.2	26.9
162	GA	Quitman	411	9.9	39.3	448	AR	Garland	729	16.4	8.6
171	AL	Montgomery	274	13.7	7.5	448	AR	Clark	729	16.4	27.1
171	AL	Autauga	274	13.7	18.8	448	AR	Pike	729	16.4	27.8
171	AL	Pike	274	13.7	15.2	448	AR	Montgomery	729	16.4	15.6
171	AL	Lowndes	274	13.7	28.8	448	AR	Hot Spring	862	16.4	27.3
171	AL	Bullock	274	13.7	19.3	457	AR	White	738	20.5	13.0
171	AL	Covington	360	13.7	20.6	457	AR	Cleburne	738	20.5	35.6
171	AL	Crenshaw	360	13.7	19.8	457	AR	Woodruff	738	20.5	25.4
175	AL	Dallas	278	22.5	11.1	473	AR	Jefferson	757	17.1	12.8
175	AL	Perry	278	22.5	28.9	473	AR	Drew	757	17.1	17.2
175	AL	Wilcox	278	22.5	36.3	473	AR	Lincoln	757	17.1	15.4
175	AL	Marengo	404	22.5	35.7	473	AR	Bradley	757	17.1	13.2
177	AL	Calhoun	280	18.3	15.7	473	AR	Cleveland	757	17.1	36.8
177	AL	Cleburne	280	18.3	13.7	473	AR	Desha	858	17.1	30.0
177	GA	Carroll	299	18.3	21.4	480	AR	Ashley	766	37.8	43.6
177	GA	Haralson	299	18.3	22.9	480	AR	Chicot	766	37.8	29.9
179	AL	Lee	282	27.9	20.2	486	AR	Union	777	22.1	15.2
179	AL	Elmore	282	27.9	44.4	486	AR	Columbia	777	22.1	27.4
179	AL	Tallapoosa	282	27.9	16.1	486	AR	Calhoun	777	22.1	62.1
179	AL	Macon	282	27.9	30.8	494	AR	Boone	788	22.8	17.6
185	AL	Morgan	288	18.2	16.9	494	AR	Carroll	788	22.8	22.1
185	AL	Lawrence	288	18.2	22.5	494	AR	Searcy	788	22.8	49.7
210	AL	Madison	320	13.6	7.0	494	AR	Newton	788	22.8	20.5
210	AL	Limestone	320	13.6	19.1	496	AR	Ouachita	791	35.6	31.1
210	TN	Lincoln	320	13.6	18.5	496	AR	Dallas	791	35.6	47.2
210	AL	Jackson	445	13.6	21.8	499	AR	Crittenden	794	36.6	28.2
219	AL	Lauderdale	332	13.4	8.9	499	AR	St. Francis	794	36.6	38.0
219	AL	Colbert	332	13.4	8.9	499	AR	Cross	794	36.6	32.3
219	AL	Franklin	347	13.4	10.5	499	AR	Lee	794	36.6	64.2
219	AL	Winston	347	13.4	45.1	521	AR	Jackson	904	26.9	26.9
224	AL	Etowah	338	21.8	15.1	522	AR	Johnson	905	30.7	30.7
224	AL	Cherokee	338	21.8	26.3	527	AR	Arkansas	910	38.0	26.5
224	AL	Marshall	366	21.8	30.4	527	AR	Monroe	910	38.0	62.0
224	AL	De Kalb	366	21.8	22.7	534	AR	Polk	917	46.8	46.8
241	AL	Talladega	372	33.0	31.2	537	AR	Phillips	920	30.4	30.4
241	AL	Clay	372	33.0	28.4	571	AR	Craighead	723	17.9	6.9
241	AL	Coosa	372	33.0	56.2	571	AR	Poinsett	723	17.9	39.7
247	AL	Marion	379	37.3	38.7	571	AR	Lawrence	723	17.9	14.3
247	AL	Fayette	379	37.3	34.9	571	AR	Randolph	723	17.9	10.8
259	AL	Butter	458	25.8	25.8	571	MO	Dunklin	982	17.9	38.2
407	AR	Baxter	686	20.8	19.2						
407	AR	Marion	686	20.8	27.2						

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
571	AR	Greene	982	17.9	6.4	768	CA	San Bernardino	1288	13.2	13.2
571	AR	Clay	982	17.9	11.4	768	CA	Riverside	1288	13.2	13.2
574	AR	Stone	854	24.0	17.2	774	CA	Imperial	1309	6.3	18.3
574	AR	Independence	958	24.0	25.4	774	CA	San Diego	1310	6.3	5.6
574	AR	Sharp	958	24.0	24.0	780	CA	Lassen	1342	43.3	46.7
574	AR	Izard	958	24.0	21.3	780	CA	Plumas	1343	43.3	40.2
574	MO	Howell	977	24.0	25.2	781	CA	San Luis Obispo	1355	9.1	10.6
574	AR	Fulton	977	24.0	22.1	781	CA	Santa Barbara	1356	9.1	8.0
574	MO	Oregon	977	24.0	19.9	789	CA	Tulare	1390	14.3	14.3
574	MO	Shannon	977	24.0	43.1	790	CA	Ventura	1391	16.4	16.4
614	AR	Mississippi	1010	35.9	33.3	800	CA	Humboldt	1401	7.5	7.5
614	MO	Pemiscot	1010	35.9	41.8	802	CA	Santa Cruz	1403	13.7	13.7
699	AZ	Maricopa	1212	7.5	6.5	807	CA	Kern	1408	15.2	15.2
699	AZ	Pinal	1212	7.5	18.1	811	CA	Mendocino	1412	17.7	17.7
699	AZ	Gila	1212	7.5	10.1	816	CA	Inyo	1419	30.0	25.5
699	AZ	Yavapai	1241	7.5	6.7	816	CA	Mono	1419	30.0	63.5
699	AZ	Coconino	1241	7.5	14.5	688	CO	Denver	1200	5.2	3.5
700	AZ	Pima	1213	6.8	6.3	688	CO	Jefferson	1200	5.2	5.3
700	AZ	Cochise	1213	6.8	7.2	688	CO	Arapahoe	1200	5.2	6.9
700	AZ	Santa Cruz	1213	6.8	5.2	688	CO	Adams	1200	5.2	5.9
700	AZ	Graham	1327	6.8	16.9	688	CO	Douglas	1200	5.2	11.8
700	AZ	Greenlee	1327	6.8	29.8	688	CO	Summit	1200	5.2	24.4
787	AZ	Yuma	1388	24.3	24.3	688	CO	Elbert	1200	5.2	40.6
803	AZ	Mohave	1404	27.0	27.0	688	CO	Grand	1200	5.2	24.8
690	CA	Sutter	1202	18.8	17.7	688	CO	Clear Creek	1200	5.2	8.3
690	CA	Yuba	1202	18.8	12.9	688	CO	Park	1200	5.2	44.9
690	CA	Colusa	1367	18.8	36.9	688	CO	Gilpin	1200	5.2	15.8
697	CA	Butte	1210	11.2	11.2	704	CO	Pueblo	1217	10.6	7.4
697	CA	Glenn	1210	11.2	9.1	704	CO	Huerfano	1217	10.6	9.1
697	CA	Tehama	1350	11.2	12.6	704	CO	Las Animas	1308	10.6	13.5
709	CA	Sacramento	1222	7.8	6.8	704	NM	Colfax	1376	10.6	25.5
709	CA	Placer	1222	7.8	10.6	711	CO	Mesa	1224	9.8	7.0
709	CA	Yolo	1222	7.8	7.0	711	CO	Garfield	1224	9.8	10.0
709	CA	El Dorado	1334	7.8	11.7	711	CO	Eagle	1224	9.8	30.1
710	CA	Shasta	1223	15.0	12.3	711	CO	Rio Blanco	1224	9.8	17.3
710	CA	Trinity	1223	15.0	23.6	711	UT	Grand	1297	9.8	24.8
710	CA	Modoc	1361	15.0	34.1	711	CO	Pitkin	1339	9.8	24.6
718	CA	Fresno	1231	7.7	6.0	731	CO	Alamosa	1245	25.5	24.9
718	CA	Madera	1231	7.7	14.9	731	CO	Conejos	1245	25.5	22.2
718	CA	Kings	1329	7.7	10.9	731	CO	Costilla	1245	25.5	32.1
723	CA	Los Angeles	1236	4.1	3.9	731	CO	Rio Grande	1338	25.5	17.6
723	CA	Orange	1379	4.1	4.9	731	CO	Saguache	1338	25.5	49.3
737	CA	Merced	1251	9.1	8.4	731	CO	Mineral	1338	25.5	33.3
737	CA	Mariposa	1251	9.1	20.2	735	CO	Routt	1249	30.4	26.9
737	CA	Stanislaus	1312	9.1	7.2	735	CO	Moffat	1249	30.4	33.5
737	CA	Tuolumne	1368	9.1	17.1	745	CO	Otero	1261	30.3	23.1
746	CA	Solano	1262	19.9	19.7	745	CO	Bent	1261	30.3	27.5
746	CA	Napa	1262	19.9	17.4	745	CO	Crowley	1261	30.3	39.1
746	CA	Lake	1362	19.9	24.0	745	CO	Kiowa	1261	30.3	60.7
750	CA	San Joaquin	1267	14.5	11.6	745	CO	Prowers	1378	30.3	38.2
750	CA	Calaveras	1267	14.5	31.1	754	CO	El Paso	1271	11.4	7.8
750	CA	Amador	1335	14.5	30.0	754	CO	Teller	1271	11.4	15.7
751	CA	Santa Clara	1268	9.0	9.5	754	CO	Lincoln	1271	11.4	42.9
751	CA	San Benito	1268	9.0	13.4	754	CO	Kit Carson	1346	11.4	44.9
751	CA	Monterey	1385	9.0	7.2	754	CO	Cheyenne	1381	11.4	41.9
753	CA	Nevada	1270	25.4	23.0	760	CO	Weld	1279	19.3	20.1
753	CA	Sierra	1270	25.4	65.1	760	CO	Morgan	1279	19.3	13.6
757	CA	San Francisco	1275	10.1	6.4	760	CO	Washington	1294	19.3	23.9
757	CA	San Mateo	1275	10.1	15.9	760	CO	Yuma	1349	19.3	21.2
764	CA	Sonoma	1284	11.5	9.0	761	CO	Montrose	1280	20.4	18.2
764	CA	Marin	1284	11.5	16.8	761	CO	Gunnison	1280	20.4	36.7
766	CA	Alameda	1286	7.8	7.3	761	CO	San Miguel	1280	20.4	33.3
766	CA	Contra Costa	1286	7.8	8.6	761	CO	Ouray	1280	20.4	17.6

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
761	CO	Hinsdale	1280	20.4	50.0	165	FL	Hendry	268	15.6	20.5
761	CO	Delta	1377	20.4	19.4	165	FL	Glades	268	15.6	42.1
763	CO	Logan	1283	27.4	26.8	165	FL	Collier	418	15.6	18.9
763	CO	Phillips	1283	27.4	25.8	183	FL	Leon	286	15.6	7.6
763	CO	Sedgwick	1328	27.4	31.5	183	FL	Gadsden	286	15.6	12.1
786	CO	Chaffee	1383	29.3	34.1	183	FL	Taylor	286	15.6	15.4
786	CO	Lake	1384	29.3	21.4	183	FL	Wakulla	286	15.6	10.9
795	CO	Boulder	1396	23.0	23.0	183	FL	Jefferson	286	15.6	50.4
796	CO	Larimer	1397	14.1	14.1	183	FL	Franklin	286	15.6	28.0
812	CO	Fremont	1413	27.0	26.4	183	FL	Liberty	286	15.6	47.7
812	CO	Custer	1413	27.0	47.5	183	FL	Madison	419	15.6	25.4
4	CT	Hartford	5	8.7	7.5	200	FL	Dade	310	8.5	4.6
4	CT	Tolland	5	8.7	7.7	200	FL	Monroe	310	8.5	14.0
4	CT	Windham	5	8.7	18.4	200	FL	Broward	432	8.5	12.6
85	CT	New Haven	97	10.6	8.0	202	FL	Polk	312	14.3	13.4
85	CT	Litchfield	97	10.6	18.3	202	FL	Highlands	312	14.3	16.9
85	CT	Middlesex	180	10.6	14.6	202	FL	Hardee	312	14.3	17.4
121	CT	Fairfield	223	11.4	11.4	213	FL	Sarasota	323	19.7	20.8
3	MD	Wicomico	4	8.3	5.8	213	FL	Charlotte	323	19.7	17.3
3	MD	Worcester	4	8.3	12.0	213	FL	De Soto	323	19.7	16.8
3	MD	Somerset	4	8.3	5.5	221	FL	St. Lucie	335	17.4	17.3
3	DE	Sussex	57	8.3	8.5	221	FL	Martin	335	17.4	17.0
3	DE	Kent	57	8.3	9.3	221	FL	Palm Beach	376	17.4	17.6
75	MD	Harford	85	13.6	26.8	221	FL	Okeechobee	376	17.4	13.0
75	MD	Cecil	85	13.6	11.1	227	FL	Pasco	343	8.8	10.7
75	DE	New Castle	168	13.6	8.9	227	FL	Hernando	343	8.8	10.1
142	FL	Orange	244	10.8	8.3	227	FL	Pinellas	413	8.8	8.1
142	FL	Seminole	244	10.8	7.1	227	FL	Hillsborough	452	8.8	8.2
142	FL	Volusia	263	10.8	8.8	233	FL	Marion	355	19.1	19.1
142	FL	Flagler	263	10.8	21.5	233	FL	Citrus	355	19.1	19.1
142	FL	Lake	464	10.8	15.8	237	FL	Brevard	364	12.6	11.9
142	FL	Sumter	464	10.8	48.3	237	FL	Indian River	364	12.6	14.2
155	FL	Bay	257	20.6	9.5	251	FL	Putnam	420	31.8	33.5
155	FL	Gulf	257	20.6	7.8	251	FL	St. Johns	421	31.8	30.2
155	FL	Washington	325	20.6	20.0	257	FL	Osceola	456	15.3	15.3
155	FL	Holmes	325	20.6	43.3	266	FL	Manatee	465	17.0	17.0
155	FL	Jackson	356	20.6	30.7	143	GA	Chatham	245	9.4	4.5
155	FL	Calhoun	356	20.6	29.8	143	GA	Liberty	245	9.4	9.9
158	FL	Duval	260	7.3	5.3	143	GA	Effingham	245	9.4	3.2
158	FL	Clay	260	7.3	17.0	143	GA	Tattnall	245	9.4	24.0
158	FL	Nassau	260	7.3	6.0	143	GA	Bryan	245	9.4	18.3
158	FL	Baker	260	7.3	13.1	143	GA	Long	245	9.4	44.6
158	GA	Glynn	305	7.3	7.1	143	SC	Beaufort	354	9.4	15.6
158	GA	Camden	305	7.3	5.2	143	SC	Jasper	354	9.4	9.1
158	GA	Brantley	305	7.3	38.9	143	GA	Evans	381	9.4	26.0
158	GA	McIntosh	305	7.3	23.7	144	GA	Dougherty	246	14.8	7.2
158	GA	Charlton	383	7.3	9.9	144	GA	Worth	246	14.8	19.2
159	FL	Alachua	261	12.7	8.1	144	GA	Lee	246	14.8	20.1
159	FL	Levy	261	12.7	25.9	144	GA	Terrell	246	14.8	11.0
159	FL	Bradford	261	12.7	19.8	144	GA	Baker	246	14.8	19.1
159	FL	Union	261	12.7	6.3	144	GA	Early	342	14.8	34.4
159	FL	Dixie	261	12.7	21.2	144	GA	Calhoun	342	14.8	4.1
159	FL	Gilchrist	261	12.7	8.4	144	GA	Clay	342	14.8	39.8
159	FL	Lafayette	261	12.7	33.0	144	GA	Randolph	410	14.8	19.2
159	FL	Columbia	302	12.7	7.2	145	GA	Whitfield	247	12.6	13.0
159	FL	Suwannee	302	12.7	14.4	145	GA	Murray	247	12.6	11.2
159	FL	Hamilton	454	12.7	21.7	152	GA	Richmond	254	8.6	2.8
163	FL	Escambia	266	8.4	4.6	152	SC	Aiken	254	8.6	6.5
163	FL	Santa Rosa	266	8.4	4.9	152	GA	Columbia	254	8.6	4.5
163	FL	Okaloosa	295	8.4	8.4	152	GA	McDuffie	254	8.6	5.0
163	FL	Walton	295	8.4	17.1	152	SC	Edgefield	254	8.6	12.9
163	AL	Escambia	329	8.4	11.1	152	GA	Lincoln	254	8.6	36.5
163	AL	Conecuh	329	8.4	31.8	152	GA	Warren	254	8.6	14.1
165	FL	Lee	268	15.6	13.8	152	GA	Glascock	254	8.6	24.4
						152	GA	Taliaferro	254	8.6	61.0

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
152	SC	Barnwell	382	8.6	29.6	190	GA	Cobb	297	25.7	25.7
152	GA	Burke	428	8.6	14.3	190	GA	Douglas	297	25.7	40.1
152	GA	Jenkins	442	8.6	19.2	190	GA	Paulding	297	25.7	17.4
153	GA	Fulton	255	7.5	6.5	193	GA	Bibb	300	12.7	6.1
153	GA	DeKalb	255	7.5	6.0	193	GA	Houston	300	12.7	8.9
153	GA	Rockdale	255	7.5	7.9	193	GA	Peach	300	12.7	12.8
153	GA	Forsyth	255	7.5	10.7	193	GA	Jones	300	12.7	26.8
153	GA	Clayton	294	7.5	5.9	193	GA	Wilkinson	300	12.7	52.8
153	GA	Fayette	294	7.5	23.3	193	GA	Twiggs	300	12.7	32.4
153	GA	Henry	294	7.5	8.5	193	GA	Taylor	300	12.7	58.8
153	GA	Gwinnett	330	7.5	7.1	193	GA	Crawford	300	12.7	25.0
153	GA	Walton	330	7.5	23.1	193	GA	Bleckley	339	12.7	11.3
154	GA	Floyd	256	13.0	5.0	193	GA	Pulaski	339	12.7	10.7
154	GA	Polk	256	13.0	10.7	193	GA	Monroe	398	12.7	16.6
154	GA	Gordon	256	13.0	30.6	197	GA	Crisp	307	28.2	17.5
154	GA	Chattooga	256	13.0	15.2	197	GA	Dooley	307	28.2	28.6
154	GA	Bartow	387	13.0	20.1	197	GA	Wilcox	307	28.2	66.1
157	GA	Hall	259	16.3	10.5	197	GA	Sumter	346	28.2	21.0
157	GA	Habersham	259	16.3	21.1	197	GA	Macon	346	28.2	29.8
157	GA	Lumpkin	259	16.3	9.7	201	GA	Baldwin	311	22.9	20.4
157	GA	White	259	16.3	10.4	201	GA	Putnam	311	22.9	26.8
157	GA	Banks	259	16.3	52.5	201	GA	Hancock	311	22.9	25.4
157	GA	Dawson	259	16.3	36.2	204	GA	Spalding	314	30.6	23.9
157	GA	Union	333	16.3	14.7	204	GA	Butts	314	30.6	49.1
157	GA	Towns	333	16.3	18.1	206	GA	Laurens	316	20.7	11.4
164	GA	Clarke	267	15.4	8.0	206	GA	Telfair	316	20.7	24.4
164	GA	Jackson	267	15.4	22.0	206	GA	Johnson	316	20.7	40.0
164	GA	Barrow	267	15.4	18.8	206	GA	Montgomery	316	20.7	27.2
164	GA	Madison	267	15.4	17.7	206	GA	Treutlen	316	20.7	26.1
164	GA	Oconee	267	15.4	10.6	206	GA	Wheeler	316	20.7	16.4
164	GA	Morgan	267	15.4	20.8	206	GA	Dodge	384	20.7	18.9
164	GA	Oglethorpe	267	15.4	9.1	206	GA	Toombs	436	20.7	26.8
164	GA	Greene	422	15.4	26.0	216	GA	Hart	327	24.2	31.5
166	GA	Muscogee	269	10.7	5.9	216	GA	Franklin	327	24.2	24.6
166	AL	Russell	269	10.7	9.1	216	GA	Stephens	386	24.2	18.6
166	GA	Chattahoochee	269	10.7	14.6	220	GA	Newton	334	45.0	42.6
166	GA	Harris	269	10.7	35.9	220	GA	Jasper	334	45.0	57.6
166	GA	Talbot	269	10.7	37.3	222	GA	Bulloch	336	26.9	20.9
166	GA	Stewart	269	10.7	15.4	222	GA	Emanuel	336	26.9	29.8
166	GA	Marion	269	10.7	8.5	222	GA	Candler	336	26.9	23.1
166	GA	Schley	269	10.7	54.4	222	GA	Screven	435	26.9	34.5
166	GA	Webster	269	10.7	26.4	228	GA	Decatur	345	32.2	32.2
172	GA	Troup	275	17.5	9.2	228	GA	Seminole	345	32.2	33.8
172	GA	Coweta	275	17.5	12.9	228	GA	Miller	345	32.2	29.8
172	GA	Meriwether	275	17.5	22.9	230	GA	Wayne	349	28.7	21.0
172	GA	Heard	275	17.5	30.0	230	GA	Appling	349	28.7	41.1
172	AL	Chambers	406	17.5	21.7	236	GA	Coffee	363	35.2	29.4
172	AL	Randolph	407	17.5	31.7	236	GA	Jeff Davis	363	35.2	32.5
174	GA	Ware	277	20.0	17.2	236	GA	Atkinson	363	35.2	62.6
174	GA	Pierce	277	20.0	23.0	250	GA	Jefferson	414	38.2	43.3
174	GA	Bacon	277	20.0	20.3	250	GA	Washington	415	38.2	32.9
174	GA	Clinch	429	20.0	24.8	253	GA	Elbert	437	33.2	32.8
178	GA	Thomas	281	21.4	13.0	253	GA	Wilkes	438	33.2	33.8
178	GA	Grady	281	21.4	11.1	254	GA	Colquitt	453	32.5	32.5
178	GA	Mitchell	281	21.4	51.8	268	GA	Rabun	467	28.1	28.1
180	GA	Lowndes	283	15.6	9.0	269	GA	Upson	468	42.1	23.5
180	GA	Brooks	283	15.6	33.0	269	GA	Lamar	468	42.1	65.4
180	GA	Cook	283	15.6	16.9	269	GA	Pike	468	42.1	61.5
180	GA	Echols	283	15.6	10.3	302	IL	Stephenson	499	15.7	23.0
180	GA	Berrien	344	15.6	21.3	302	IL	Jo Daviess	499	15.7	20.1
180	GA	Lanier	344	15.6	9.1	302	IA	Dubuque	512	15.7	6.5
189	GA	Tift	292	20.5	20.4	302	IA	Jackson	512	15.7	21.4
189	GA	Ben Hill	292	20.5	16.0	340	IA	Des Moines	998	26.9	15.5
189	GA	Turner	292	20.5	28.7						
189	GA	Irwin	292	20.5	23.1						
190	GA	Cherokee	293	25.7	19.1						
190	GA	Pickens	293	25.7	18.0						

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800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
340	IA	Henry	998	26.9	35.2	606	IA	Hamilton	999	27.1	14.3
340	IL	Henderson	998	26.9	59.3	606	IA	Wright	1138	27.1	54.9
350	WI	Crawford	614	40.5	43.7	606	IA	Hardin	1173	27.1	37.0
350	IA	Clayton	1009	40.5	34.5	617	IA	Guthrie	1013	42.4	43.7
350	IA	Delaware	1009	40.5	46.7	617	IA	Greene	1013	42.4	40.8
367	IA	Lee	568	33.9	24.5	625	IA	Clay	1024	29.7	25.9
367	IL	Hancock	568	33.9	41.3	625	IA	Dickinson	1024	29.7	30.1
367	MO	Clark	568	33.9	50.9	625	IA	Palo Alto	1136	29.7	34.4
395	IA	Winneshiek	1144	35.6	35.6	633	IA	Sac	1034	32.6	42.9
545	IA	Linn	928	10.5	5.8	633	IA	Calhoun	1034	32.6	37.2
545	IA	Benton	928	10.5	8.7	633	IA	Carroll	1079	32.6	21.0
545	IA	Jones	928	10.5	14.6	634	IA	Floyd	1035	41.2	44.9
545	IA	Cedar	928	10.5	31.6	634	IA	Chickasaw	1035	41.2	35.6
545	IA	Johnson	935	10.5	8.3	641	IA	Scott	1048	13.5	9.9
545	IA	Washington	935	10.5	8.5	641	IA	Muscatine	1048	13.5	25.7
545	IA	Iowa	935	10.5	9.3	644	IA	Page	1051	48.0	39.4
545	IA	Louisa	935	10.5	59.8	644	IA	Fremont	1051	48.0	43.7
546	IA	Polk	929	8.4	6.5	644	IA	Taylor	1051	48.0	72.8
546	IA	Warren	929	8.4	9.2	645	IA	Lucas	1052	40.8	41.2
546	IA	Jasper	929	8.4	13.8	645	IA	Wayne	1052	40.8	40.4
546	IA	Dallas	929	8.4	11.0	647	IA	Montgomery	1054	31.8	28.5
546	IA	Madison	929	8.4	5.9	647	IA	Adams	1054	31.8	42.9
546	IA	Clarke	929	8.4	10.5	649	IA	Appanoose	1056	27.4	23.3
546	IA	Union	1023	8.4	9.5	649	IA	Davis	1056	27.4	33.7
546	IA	Adair	1023	8.4	21.3	652	IA	O'Brien	1064	38.2	39.1
546	IA	Decatur	1088	8.4	9.1	652	IA	Osceola	1065	38.2	36.0
546	IA	Ringgold	1089	8.4	8.8	665	IA	Mitchell	1177	43.8	43.8
546	IA	Marion	1127	8.4	8.7	672	IA	Sioux	1184	40.4	40.4
556	IA	Cerro Gordo	941	20.9	11.0	679	IA	Marshall	1191	39.2	26.8
556	IA	Hancock	941	20.9	17.4	679	IA	Tama	1191	39.2	61.8
556	IA	Winnebago	941	20.9	32.1	681	IA	Crawford	1193	48.7	48.7
556	IA	Franklin	941	20.9	17.9	686	IA	Poweshiek	1198	30.4	30.4
556	IA	Worth	941	20.9	19.3	694	ID	Nez Perce	1206	14.4	12.1
556	IA	Kossuth	1118	20.9	41.5	694	WA	Asotin	1206	14.4	13.6
557	IA	Black Hawk	942	17.2	8.7	694	ID	Clearwater	1206	14.4	7.6
557	IA	Bremer	942	17.2	11.6	694	ID	Lewis	1206	14.4	15.2
557	IA	Buchanan	942	17.2	21.1	694	WA	Garfield	1206	14.4	30.6
557	IA	Butler	942	17.2	39.5	694	ID	Idaho	1278	14.4	21.0
557	IA	Grundy	942	17.2	35.8	695	ID	Twin Falls	1207	14.5	13.9
557	IA	Fayette	1078	17.2	30.3	695	ID	Jerome	1207	14.5	12.3
560	IA	Woodbury	945	9.6	4.5	695	ID	Gooding	1207	14.5	19.3
560	NE	Dakota	945	9.6	5.9	695	ID	Lincoln	1207	14.5	14.7
560	IA	Monona	945	9.6	14.6	696	ID	Bannock	1209	19.4	9.2
560	IA	Ida	945	9.6	8.8	696	ID	Bingham	1209	19.4	36.4
560	NE	Thurston	945	9.6	8.6	696	ID	Power	1209	19.4	20.7
560	NE	Dixon	945	9.6	18.7	696	ID	Caribou	1357	19.4	25.4
560	IA	Plymouth	1093	9.6	13.0	696	ID	Oneida	1392	19.4	25.3
560	IA	Buena Vista	1121	9.6	25.5	716	ID	Ada	1229	6.9	7.8
560	IA	Cherokee	1122	9.6	8.1	716	ID	Gem	1229	6.9	7.2
585	IA	Webster	971	31.1	29.5	716	ID	Valley	1229	6.9	7.3
585	IA	Humboldt	971	31.1	25.5	716	ID	Boise	1229	6.9	20.6
585	IA	Pocahontas	971	31.1	42.6	716	ID	Elmore	1302	6.9	11.8
589	IA	Wapello	975	22.9	13.0	716	ID	Canyon	1365	6.9	4.7
589	IA	Mahaska	975	22.9	28.9	716	ID	Owyhee	1365	6.9	3.2
589	IA	Keokuk	975	22.9	41.9	722	ID	Bonneville	1235	16.2	14.6
589	IA	Jefferson	1059	22.9	20.8	722	ID	Madison	1235	16.2	8.6
589	IA	Van Buren	1059	22.9	32.8	722	ID	Jefferson	1235	16.2	9.0
589	IA	Monroe	1099	22.9	24.2	722	ID	Fremont	1235	16.2	18.3
596	IA	Pottawattamie	986	22.2	17.3	722	ID	Custer	1235	16.2	60.7
596	IA	Shelby	986	22.2	18.5	722	ID	Butte	1235	16.2	33.3
596	IA	Mills	986	22.2	29.9	722	ID	Clark	1235	16.2	20.0
596	IA	Cass	1043	22.2	26.7	722	ID	Teton	1369	16.2	14.6
596	IA	Audubon	1043	22.2	29.9						
596	IA	Harrison	1090	22.2	34.0						
606	IA	Story	999	27.1	20.7						
606	IA	Boone	999	27.1	24.2						

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				Area	County					Area	County
730	ID	Cassia	1244	29.4	27.2	333	IL	Vermilion	530	21.1	14.8
730	ID	Minidoka	1244	29.4	32.3	333	IN	Fountain	530	21.1	38.1
734	ID	Kootenai	1248	20.7	17.2	333	IN	Warren	530	21.1	38.1
734	ID	Shoshone	1248	20.7	14.2	333	IL	Edgar	668	21.1	25.5
734	ID	Bonner	1281	20.7	31.1	334	IL	Macoupin	531	37.4	43.3
734	ID	Boundary	1281	20.7	24.9	334	IL	Montgomery	531	37.4	29.1
734	ID	Benewah	1399	20.7	26.3	335	IL	Jefferson	532	23.1	18.7
808	ID	Blaine	1409	29.9	28.6	335	IL	Wayne	532	23.1	32.9
808	ID	Camas	1409	29.9	37.5	336	IL	La Salle	533	18.9	16.9
813	ID	Lemhi	1414	29.8	29.8	336	IL	Bureau	533	18.9	20.3
277	IL	Peoria	475	12.9	5.1	336	IL	Putnam	533	18.9	19.0
277	IL	Tazewell	475	12.9	7.8	336	IL	Livingston	641	18.9	22.5
277	IL	Fulton	475	12.9	26.2	338	IL	McLean	535	25.1	15.5
277	IL	Mason	475	12.9	34.6	338	IL	Woodford	535	25.1	51.4
277	IL	Marshall	475	12.9	54.0	338	IL	DeWitt	664	25.1	34.1
279	IL	Champaign	477	11.9	7.6	343	IL	Kankakee	539	15.0	10.6
279	IL	Douglas	477	11.9	14.0	343	IL	Iroquois	539	15.0	26.3
279	IL	Ford	477	11.9	16.4	351	IL	Richland	546	43.4	20.5
279	IL	Coles	623	11.9	11.9	351	IL	Clay	546	43.4	43.8
279	IL	Cumberland	623	11.9	35.3	351	IL	Jasper	546	43.4	72.9
287	IL	Cook	484	6.1	5.4	351	IL	Edwards	546	43.4	48.7
287	IL	Du Page	484	6.1	7.8	353	IL	Adams	548	12.9	6.7
287	IL	Lake	551	6.1	7.5	353	IL	Pike	548	12.9	17.8
287	IL	McHenry	551	6.1	23.7	353	MO	Lewis	548	12.9	17.5
291	IL	Winnebago	488	13.9	10.2	353	MO	Marion	1036	12.9	11.8
291	IL	Ogle	488	13.9	24.9	353	MO	Pike	1036	12.9	21.4
291	IL	Boone	488	13.9	7.2	353	MO	Ralls	1036	12.9	37.8
291	IL	Lee	599	13.9	26.6	358	IL	Marion	554	22.6	18.9
299	IL	Madison	496	24.9	24.5	358	IL	Washington	554	22.6	36.6
299	IL	Jersey	496	24.9	18.8	361	IA	Clinton	557	25.3	24.3
299	IL	Calhoun	496	24.9	31.9	361	IL	Carroll	557	25.3	48.7
299	IL	Bond	633	24.9	30.9	361	IL	Whiteside	602	25.3	18.4
303	IL	Will	500	21.1	23.2	363	IL	Effingham	560	25.4	18.4
303	IL	Grundy	500	21.1	8.5	363	IL	Fayette	560	25.4	32.3
305	IL	Macon	502	15.4	7.0	373	IL	Kane	577	15.4	12.6
305	IL	Platt	502	15.4	35.7	373	IL	DeKalb	577	15.4	24.1
305	IL	Moultrie	502	15.4	20.5	373	IL	Kendall	577	15.4	22.3
305	IL	Shelby	604	15.4	28.5	383	IL	White	589	36.1	39.0
307	IL	Rock Island	504	14.5	8.4	383	IL	Hamilton	589	36.1	31.4
307	IL	Henry	504	14.5	22.6	384	IL	Saline	590	23.3	18.1
307	IL	Mercer	504	14.5	23.9	384	IL	Gallatin	590	23.3	34.0
307	IL	Stark	504	14.5	55.6	384	IL	Hardin	590	23.3	17.7
318	IL	Sangamon	515	11.4	5.7	384	IL	Pope	590	23.3	48.2
318	IL	McDonough	515	11.4	11.6	273	IN	Vanderburgh	471	8.7	4.0
318	IL	Cass	515	11.4	35.8	273	IN	Warrick	471	8.7	4.9
318	IL	Menard	515	11.4	7.2	273	IN	Gibson	471	8.7	7.2
318	IL	Schuyler	515	11.4	9.4	273	IN	Posey	471	8.7	6.2
318	IL	Brown	515	11.4	41.6	273	IN	Spencer	471	8.7	59.8
318	IL	Christian	628	11.4	14.2	273	IL	Wabash	658	8.7	17.0
318	IL	Logan	662	11.4	18.8	275	IN	Marion	473	6.2	4.7
319	IL	Morgan	516	21.8	17.7	275	IN	Johnson	473	6.2	8.6
319	IL	Greene	516	21.8	30.8	275	IN	Hendricks	473	6.2	8.8
319	IL	Scott	516	21.8	22.5	275	IN	Morgan	473	6.2	9.5
324	IL	Knox	521	10.3	9.3	275	IN	Putnam	620	6.2	11.7
324	IL	Warren	521	10.3	13.2	275	IN	Rush	644	6.2	18.4
325	IL	St. Clair	522	16.6	16.2	275	IN	Shelby	645	6.2	10.0
325	IL	Randolph	522	16.6	12.1	300	IN	Tippecanoe	497	15.0	9.1
325	IL	Monroe	522	16.6	20.7	300	IN	Clinton	497	15.0	23.7
325	IL	Clinton	663	16.6	21.9	300	IN	White	497	15.0	15.8
331	IL	Williamson	528	14.7	10.3	300	IN	Carroll	497	15.0	24.1
331	IL	Franklin	528	14.7	15.9	300	IN	Benton	497	15.0	14.1
331	IL	Jackson	585	14.7	14.2	304	IN	Allen	501	9.3	6.7
331	IL	Perry	585	14.7	24.5	304	IN	Noble	501	9.3	18.6

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
304	IN	Lagrange	501	9.3	21.0	385	IN	Fayette	592	16.4	17.3
304	IN	Whitley	501	9.3	7.4	385	IN	Union	592	16.4	46.6
304	IN	Steuben	618	9.3	11.0	389	IN	Grant	621	24.4	17.4
304	IN	DeKalb	638	9.3	9.4	389	IN	Miami	622	24.4	33.2
308	IN	Lake	505	8.8	6.8	389	IN	Wabash	666	24.4	30.9
308	IN	Porter	505	8.8	11.2	390	IN	Hamilton	642	22.6	45.1
308	IN	Jasper	505	8.8	20.7	390	IN	Madison	643	22.6	13.7
308	IN	Newton	505	8.8	37.6	394	IN	Dubois	676	10.9	10.9
310	IN	Knox	507	20.8	7.7	401	IN	Boone	680	34.3	34.3
310	IN	Davies	507	20.8	16.6	402	IN	Montgomery	681	22.7	22.7
310	IL	Lawrence	507	20.8	14.8	551	KS	Ford	934	22.3	17.5
310	IN	Pike	507	20.8	65.2	551	KS	Gray	934	22.3	31.0
310	IN	Martin	507	20.8	63.5	551	KS	Hodgeman	934	22.3	17.3
310	IL	Crawford	640	20.8	18.9	551	KS	Meade	1040	22.3	28.3
311	IN	Vigo	508	17.5	10.1	551	KS	Clark	1040	22.3	32.0
311	IN	Clay	508	17.5	15.9	554	KS	Shawnee	938	8.9	5.3
311	IN	Vermillion	508	17.5	23.7	554	KS	Jefferson	938	8.9	27.3
311	IL	Clark	508	17.5	53.8	554	KS	Osage	938	8.9	24.4
311	IN	Parke	508	17.5	21.1	554	KS	Jackson	938	8.9	4.8
311	IN	Sullivan	661	17.5	15.3	554	KS	Wabaunsee	938	8.9	29.9
312	IN	St. Joseph	509	12.4	9.5	554	KS	Riley	993	8.9	10.9
312	IN	Marshall	509	12.4	13.4	554	KS	Pottawatomie	993	8.9	3.6
312	IN	Fulton	591	12.4	24.0	554	KS	Brown	1070	8.9	9.4
312	IN	Pulaski	591	12.4	36.4	554	KS	Nemaha	1071	8.9	5.2
313	IN	Bartholomew	510	18.4	11.9	562	KS	Grant	947	24.0	27.3
313	IN	Jennings	510	18.4	15.7	562	KS	Stanton	947	24.0	22.0
313	IN	Decatur	639	18.4	28.5	562	CO	Baca	1386	24.0	22.5
313	IN	Jackson	674	18.4	20.4	565	KS	Ellis	950	12.2	10.2
321	IN	Jefferson	518	23.0	21.3	565	KS	Rooks	950	12.2	16.3
321	KY	Carroll	518	23.0	23.7	565	KS	Graham	950	12.2	10.6
321	IN	Switzerland	518	23.0	10.0	565	KS	Gove	1039	12.2	11.0
321	KY	Trimble	518	23.0	28.0	565	KS	Logan	1039	12.2	19.5
321	IN	Dearborn	559	23.0	23.7	565	KS	Trego	1131	12.2	12.1
321	IN	Ripley	559	23.0	27.7	567	KS	Lyon	952	19.6	11.1
321	IN	Ohio	559	23.0	18.1	567	KS	Coffey	952	19.6	30.1
323	IN	Delaware	520	17.8	10.6	567	KS	Chase	952	19.6	13.5
323	IN	Randolph	520	17.8	37.2	567	KS	Greenwood	1128	19.6	28.4
323	IN	Blackford	520	17.8	21.5	569	KS	Saline	954	14.4	14.2
329	IN	Lawrence	526	21.4	17.7	569	KS	Ottawa	954	14.4	6.6
329	IN	Orange	526	21.4	33.9	569	KS	Lincoln	954	14.4	8.3
332	IN	Huntington	529	26.4	31.5	569	KS	Ellsworth	1094	14.4	23.8
332	IN	Wells	529	26.4	15.5	575	KS	Finney	960	16.9	15.5
332	IN	Adams	615	26.4	24.4	575	KS	Kearny	960	16.9	8.3
332	IN	Jay	616	26.4	31.4	575	KS	Haskell	960	16.9	20.9
339	IN	Floyd	536	21.6	19.3	575	KS	Scott	1058	16.9	17.3
339	IN	Harrison	536	21.6	17.3	575	KS	Lane	1058	16.9	22.8
339	IN	Crawford	536	21.6	42.8	575	KS	Hamilton	1082	16.9	21.2
339	IN	Washington	625	21.6	23.5	576	KS	Sedgwick	961	5.7	4.9
341	IN	Monroe	537	21.7	11.3	576	KS	Butler	961	5.7	6.2
341	IN	Greene	537	21.7	27.6	576	KS	Sumner	961	5.7	5.2
341	IN	Owen	537	21.7	33.5	576	KS	Harvey	981	5.7	7.6
341	IN	Brown	537	21.7	58.8	576	KS	Marion	981	5.7	9.2
349	IN	Elkhart	545	19.7	12.9	576	KS	Cowley	1124	5.7	7.1
349	IN	Kosciusko	545	19.7	36.0	583	KS	Barton	969	21.2	17.2
362	IN	Henry	558	30.3	29.4	583	KS	Pawnee	969	21.2	20.6
362	IN	Hancock	558	30.3	32.2	583	KS	Rush	969	21.2	35.1
364	IN	Howard	562	14.8	12.3	583	KS	Edwards	969	21.2	24.2
364	IN	Tipton	562	14.8	16.0	587	KS	Seward	973	32.1	24.9
364	IN	Cass	632	14.8	19.3	587	OK	Texas	973	32.1	41.2
365	IN	Clark	563	30.6	31.9	587	OK	Cimarron	1038	32.1	35.3
365	IN	Scott	563	30.6	26.3	587	KS	Morton	1038	32.1	15.1
378	IN	La Porte	582	17.6	13.8	598	KS	Reno	988	22.8	19.1
378	IN	Starke	582	17.6	33.0	598	KS	Rice	988	22.8	32.5
385	IN	Wayne	592	16.4	13.4	598	KS	Stafford	1108	22.8	31.4

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800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
601	KS	Labette	992	23.6	22.3	12	IL	Johnson	13	10.6	50.4
601	KS	Neosho	992	23.6	19.0	12	KY	Ballard	13	10.6	4.4
601	KS	Allen	1164	23.6	22.3	12	KY	Lyon	13	10.6	40.4
601	KS	Woodson	1164	23.6	45.2	12	KY	Hickman	13	10.6	29.6
618	KS	Pratt	1015	31.1	27.2	12	KY	Carlisle	13	10.6	5.9
618	KS	Kiowa	1015	31.1	31.9	12	KY	Livingston	15	10.6	5.5
618	KS	Comanche	1015	31.1	42.2	12	KY	Crittenden	15	10.6	6.2
621	KS	Wyandotte	1018	21.2	22.7	13	KY	Pike	14	23.3	25.0
621	KS	Leavenworth	1018	21.2	15.4	13	WV	Mingo	14	23.3	20.9
622	KS	Mitchell	1019	37.3	19.8	13	WV	Logan	165	23.3	23.0
622	KS	Osborne	1019	37.3	49.0	18	KY	Fayette	20	13.4	6.9
622	KS	Jewell	1019	37.3	60.8	18	KY	Jessamine	20	13.4	4.2
624	KS	Johnson	1021	37.3	47.3	18	KY	Woodford	20	13.4	6.3
624	KS	Miami	1021	37.3	20.5	18	KY	Breathitt	20	13.4	12.8
624	KS	Franklin	1021	37.3	17.8	18	KY	Lee	20	13.4	28.6
624	KS	Anderson	1086	37.3	33.1	18	KY	Wolfe	20	13.4	45.9
624	KS	Douglas	1140	37.3	13.0	18	KY	Owsley	20	13.4	47.3
630	KS	Crawford	1030	21.6	16.5	18	KY	Perry	27	13.4	11.4
630	KS	Bourbon	1030	21.6	16.6	18	KY	Knott	27	13.4	50.6
630	KS	Linn	1030	21.6	56.8	18	KY	Leslie	27	13.4	15.2
635	KS	Marshall	1041	43.5	43.9	18	KY	Scott	155	13.4	10.5
635	KS	Washington	1041	43.5	43.0	18	KY	Clark	203	13.4	7.3
636	KS	Rawlins	1042	43.6	43.0	18	KY	Powell	203	13.4	21.2
636	KS	Cheyenne	1042	43.6	44.4	27	KY	Boyle	30	20.5	16.2
637	KS	Phillips	1044	34.8	35.2	27	KY	Lincoln	30	20.5	17.4
637	KS	Norton	1044	34.8	45.8	27	KY	Casey	30	20.5	32.7
637	KS	Smith	1142	34.8	23.4	27	KY	Garrard	172	20.5	17.8
642	KS	Cloud	1049	28.6	33.6	27	KY	Mercer	212	20.5	22.5
642	KS	Republic	1049	28.6	21.3	29	KY	Warren	32	14.1	11.4
643	KS	Wichita	1050	46.4	49.3	29	KY	Allen	32	14.1	15.6
643	KS	Greeley	1050	46.4	41.5	29	KY	Simpson	32	14.1	15.8
650	KS	Geary	1057	32.0	27.7	29	KY	Butler	32	14.1	13.8
650	KS	Morris	1057	32.0	32.8	29	KY	Edmonson	32	14.1	17.2
650	KS	Dickinson	1104	32.0	34.0	29	KY	Logan	207	14.1	16.7
659	KS	Sherman	1110	34.3	30.1	37	KY	Pulaski	40	28.0	21.9
659	KS	Wallace	1110	34.3	73.4	37	KY	Wayne	40	28.0	21.9
659	KS	Thomas	1111	34.3	30.3	37	KY	McCreary	40	28.0	51.7
661	KS	Harper	1129	34.5	26.6	40	KY	Henderson	43	20.7	15.7
661	KS	Kingman	1130	34.5	44.5	40	KY	Union	43	20.7	32.1
662	KS	Clay	1174	38.3	38.3	45	KY	Christian	49	19.6	15.4
664	KS	Stevens	1176	50.0	50.0	45	KY	Todd	49	19.6	51.2
667	KS	Russell	1179	40.7	40.7	45	KY	Trigg	49	19.6	17.5
669	KS	Barber	1181	26.4	26.4	45	KY	Hopkins	107	19.6	7.8
671	KS	Atchison	1183	25.1	25.1	45	KY	Webster	107	19.6	51.5
674	KS	McPherson	1186	28.0	28.0	45	KY	Caldwell	107	19.6	19.2
675	KS	Wilson	1187	33.1	33.1	45	KY	Muhlenberg	178	19.6	17.0
682	KS	Ness	1194	45.8	45.8	51	KY	Whitley	55	23.5	30.2
2	KY	Kenton	2	14.1	12.0	51	KY	Knox	55	23.5	23.6
2	KY	Boone	2	14.1	12.5	51	KY	Laurel	143	23.5	16.7
2	KY	Grant	2	14.1	15.5	51	KY	Clay	217	23.5	19.4
2	KY	Gallatin	2	14.1	42.0	53	KY	Barren	59	19.9	14.0
2	KY	Campbell	193	14.1	12.5	53	KY	Hart	59	19.9	40.6
2	KY	Pendleton	193	14.1	38.0	53	KY	Metcalfe	59	19.9	16.1
11	KY	Floyd	12	23.2	20.2	53	KY	Monroe	179	19.9	15.8
11	KY	Johnson	12	23.2	22.1	62	KY	Madison	68	27.9	22.4
11	KY	Magoffin	12	23.2	39.8	62	KY	Estill	68	27.9	25.4
12	KY	McCracken	13	10.6	3.2	62	KY	Jackson	68	27.9	50.9
12	KY	Graves	13	10.6	12.8	62	KY	Rockcastle	137	27.9	25.2
12	KY	Marshall	13	10.6	14.5	67	KY	Rowan	74	19.9	12.5
12	IL	Massac	13	10.6	2.7	67	KY	Morgan	74	19.9	15.4
						67	KY	Elliott	74	19.9	20.8
						67	KY	Menifee	74	19.9	50.5
						82	KY	Taylor	93	30.1	26.9
						82	KY	Green	93	30.1	42.3
						82	KY	Adair	138	30.1	29.5
						82	KY	Russell	209	30.1	24.9

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				Area	County					Area	County
89	KY	Hardin	103	22.1	16.6	423	LA	St. Helena	702	17.0	17.2
89	KY	Nelson	103	22.1	36.4	424	LA	Lafayette	703	6.7	4.7
89	KY	Meade	103	22.1	55.8	424	LA	Iberia	703	6.7	5.8
89	KY	Larue	103	22.1	16.1	424	LA	St. Martin	703	6.7	11.1
89	KY	Grayson	189	22.1	12.5	424	LA	Vermilion	820	6.7	1.9
89	KY	Breckinridge	201	22.1	22.4	424	LA	Acadia	844	6.7	13.4
96	KY	Harlan	116	19.7	24.6	439	LA	Lincoln	719	33.1	17.2
96	KY	Bell	116	19.7	13.7	439	LA	Jackson	719	33.1	24.0
96	TN	Claiborne	424	19.7	23.4	439	LA	Bienville	719	33.1	58.3
102	KY	Bourbon	125	32.5	37.4	439	LA	Union	886	33.1	42.5
102	KY	Nicholas	125	32.5	23.2	443	LA	Ouachita	724	4.9	3.2
104	KY	Clinton	127	28.8	35.8	443	LA	Franklin	724	4.9	6.7
104	KY	Cumberland	127	28.8	21.6	443	LA	Richland	724	4.9	4.0
114	KY	Franklin	170	35.4	29.8	443	LA	West Carroll	724	4.9	4.4
114	KY	Anderson	170	35.4	53.6	443	LA	Caldwell	724	4.9	6.1
114	KY	Owen	171	35.4	41.8	443	LA	Morehouse	811	4.9	6.6
115	KY	Calloway	176	21.2	15.5	443	LA	East Carroll	1418	4.9	20.5
115	TN	Carroll	370	21.2	27.8	450	LA	Rapides	731	12.0	6.7
115	TN	Benton	370	21.2	24.2	450	LA	Avoyelles	731	12.0	10.3
115	TN	Henry	403	21.2	16.4	450	LA	Allen	731	12.0	19.6
116	KY	Fleming	182	26.7	27.2	450	LA	Grant	731	12.0	11.9
116	KY	Mason	183	26.7	19.0	450	LA	La Salle	759	12.0	9.9
116	KY	Bracken	183	26.7	42.9	450	LA	Catahoula	759	12.0	56.8
119	KY	Harrison	221	24.8	20.2	463	LA	St. Landry	745	15.1	18.5
119	KY	Robertson	221	24.8	58.3	463	LA	Evangeline	745	15.1	8.9
123	KY	Letcher	225	23.7	23.7	467	LA	Terrebonne	750	12.5	8.5
131	KY	Montgomery	233	34.6	22.6	467	LA	Lafourche	750	12.5	8.9
131	KY	Bath	233	34.6	53.8	467	LA	Assumption	750	12.5	39.1
272	KY	Jefferson	3	5.1	3.7	470	LA	Calcasieu	754	11.6	6.2
272	KY	Bullitt	3	5.1	7.4	470	LA	Jefferson Davis	754	11.6	19.2
272	KY	Oldham	3	5.1	5.8	470	LA	Cameron	754	11.6	6.0
272	KY	Shelby	3	5.1	9.5	470	LA	Vernon	798	11.6	29.6
272	KY	Henry	3	5.1	12.0	470	LA	Beauregard	798	11.6	8.3
272	KY	Spencer	3	5.1	11.2	500	LA	St. Tammany	795	18.9	16.4
272	KY	Marion	218	5.1	24.5	500	LA	Washington	795	18.9	18.2
272	KY	Washington	218	5.1	27.8	500	MS	Pearl River	879	18.9	25.3
316	KY	Daviess	69	11.1	6.5	523	LA	Claiborne	906	33.5	33.5
316	KY	Ohio	69	11.1	11.4	528	LA	St. Mary	911	29.0	29.0
316	KY	McLean	69	11.1	24.0	530	LA	Winn	913	35.9	35.9
316	KY	Hancock	69	11.1	12.7	22	MA	Middlesex	24	5.3	4.6
316	IN	Perry	627	11.1	22.4	22	MA	Suffolk	24	5.3	4.1
403	LA	Orleans	682	4.0	3.1	22	MA	Norfolk	24	5.3	6.8
403	LA	Jefferson	682	4.0	3.4	22	MA	Plymouth	24	5.3	5.2
403	LA	St. Bernard	682	4.0	2.2	22	MA	Barnstable	160	5.3	8.1
403	LA	Plaquemines	682	4.0	2.5	32	MA	Hampden	35	6.5	6.3
403	LA	St. James	682	4.0	47.6	32	MA	Hampshire	35	6.5	7.3
403	LA	St. Charles	771	4.0	11.1	68	MA	Bristol	75	16.8	17.3
403	LA	St. John The Baptist	771	4.0	5.6	68	RI	Newport	75	16.8	13.3
416	LA	Caddo	695	5.2	3.7	74	MA	Essex	83	15.2	13.7
416	LA	Bossier	695	5.2	2.8	74	NH	Rockingham	83	15.2	22.3
416	LA	DeSoto	695	5.2	3.6	101	MA	Worcester	123	10.3	9.9
416	LA	Sabine	695	5.2	10.7	101	MA	Franklin	123	10.3	14.7
416	LA	Natchitoches	753	5.2	14.7	111	MA	Nantucket	161	28.4	28.4
416	LA	Red River	753	5.2	1.9	112	MA	Berkshire	162	13.7	6.2
416	LA	Webster	813	5.2	5.3	112	NY	Columbia	163	13.7	16.9
419	LA	East Baton Rouge	698	8.2	4.9	112	NY	Greene	163	13.7	39.4
419	LA	Livingston	698	8.2	28.2	120	MA	Dukes	222	25.7	25.7
419	LA	Ascension	698	8.2	7.6	1	MD	Allegany	1	9.0	3.8
419	LA	Iberville	698	8.2	4.5	1	WV	Mineral	1	9.0	7.6
419	LA	West Baton Rouge	698	8.2	5.5	1	MD	Garrett	145	9.0	11.8
419	LA	East Feliciana	698	8.2	7.8	1	WV	Grant	146	9.0	18.8
419	LA	West Feliciana	698	8.2	8.7	1	WV	Hardy	146	9.0	52.9
419	LA	Pointe Coupee	824	8.2	7.2						
423	LA	Tangipahoa	702	17.0	17.0						

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
16	MD	Baltimore	18	7.5	6.2	309	MI	Kent	506	13.0	8.5
16	MD	Howard	18	7.5	17.7	309	MI	Ionia	506	13.0	28.3
16	MD	Carroll	18	7.5	18.9	309	MI	Montcalm	506	13.0	14.3
16	MD	Anne Arundel	148	7.5	8.1	309	MI	Mecosta	617	13.0	21.1
16	MD	Calvert	149	7.5	16.1	309	MI	Graiot	655	13.0	20.4
61	MD	Prince George	67	7.2	7.8	317	MI	Wexford	514	38.5	34.9
61	MD	Charles	67	7.2	8.3	317	MI	Osceola	514	38.5	34.5
61	MD	Montgomery	78	7.2	9.5	317	MI	Missaukee	514	38.5	28.1
61	DC	The District	78	7.2	4.8	317	MI	Lake	514	38.5	61.6
61	MD	St. Marys	213	7.2	10.3	320	MI	Ottawa	517	31.9	30.2
107	MD	Queen Annes	132	22.0	45.1	320	MI	Allegan	517	31.9	34.7
107	MD	Dorchester	132	22.0	15.9	322	MI	Saginaw	519	19.2	11.8
107	MD	Talbot	132	22.0	11.2	322	MI	Tuscola	519	19.2	36.4
107	MD	Caroline	132	22.0	21.7	322	MI	Huron	648	19.2	27.7
124	MD	Kent	226	20.6	20.6	327	MI	Berrien	524	27.9	21.8
9	ME	Cumberland	10	8.9	7.8	327	MI	Van Buren	524	27.9	33.9
9	ME	Sagadahoc	10	8.9	12.9	327	MI	Cass	524	27.9	43.0
9	ME	Knox	101	8.9	9.1	328	MI	Genesee	525	10.9	9.2
9	ME	Lincoln	101	8.9	13.4	328	MI	Lapeer	525	10.9	26.0
17	ME	Penobscot	19	10.0	12.2	330	MI	Midland	527	22.0	15.8
17	ME	Piscataquis	19	10.0	8.6	330	MI	Gladwin	527	22.0	25.2
17	ME	Hancock	124	10.0	7.0	330	MI	Isabella	575	22.0	28.5
17	ME	Washington	124	10.0	9.4	330	MI	Clare	575	22.0	22.3
38	ME	Kennebec	41	14.8	13.0	342	MI	Bay	538	19.6	12.3
38	ME	Somerset	41	14.8	10.7	342	MI	Ogemaw	538	19.6	23.0
38	ME	Waldo	147	14.8	27.0	342	MI	Arenac	538	19.6	25.2
95	ME	Androscoggin	115	11.7	6.8	342	MI	Oscoda	538	19.6	55.0
95	ME	Franklin	115	11.7	17.4	342	MI	Iosco	605	19.6	29.2
95	ME	Oxford	157	11.7	16.7	348	MI	Kalamazoo	544	13.9	12.8
98	ME	York	119	23.2	26.8	348	MI	St. Joseph	544	13.9	16.4
98	NH	Strafford	119	23.2	15.9	359	MI	Houghton	555	20.8	21.3
136	ME	Aroostook	238	9.1	9.1	359	MI	Baraga	555	20.8	20.1
271	MI	Grand Traverse	470	15.7	9.6	359	MI	Keweenaw	555	20.8	18.0
271	MI	Antrim	470	15.7	36.1	371	MI	Alpena	574	38.2	18.7
271	MI	Leelanau	470	15.7	12.6	371	MI	Presque Isle	574	38.2	37.5
271	MI	Kalkaska	470	15.7	19.5	371	MI	Alcona	574	38.2	52.9
271	MI	Benzie	470	15.7	13.1	371	MI	Montmorency	574	38.2	70.9
271	MI	Manistee	619	15.7	15.4	375	MI	Hillsdale	579	24.3	24.1
274	MI	Wayne	472	4.4	3.2	375	MI	Branch	579	24.3	30.2
274	MI	Oakland	472	4.4	6.6	375	MI	Jackson	649	24.3	17.9
274	MI	Macomb	472	4.4	3.9	375	MI	Lenawee	650	24.3	32.2
274	MI	Washtenaw	472	4.4	6.4	381	MI	Calhoun	586	16.9	13.1
274	MI	Livingston	472	4.4	13.2	381	MI	Barry	586	16.9	33.3
285	MI	Ingham	483	16.0	12.1	392	MI	Roscommon	656	47.4	58.5
285	MI	Eaton	483	16.0	17.9	392	MI	Crawford	656	47.4	25.6
285	MI	Clinton	483	16.0	19.9	392	MI	Otsego	657	47.4	36.0
285	MI	Shlawassee	626	16.0	24.1	286	WI	Polk	561	16.0	16.8
293	MI	Marquette	490	9.2	7.3	286	MN	Chisago	561	16.0	25.1
293	MI	Alger	490	9.2	9.3	286	MN	Ramsey	940	16.0	14.5
293	MI	Delta	571	9.2	10.9	286	MN	Dakota	940	16.0	22.4
293	MI	Schoolcraft	571	9.2	7.9	286	MN	Washington	940	16.0	11.9
293	MI	Luce	598	9.2	17.8	289	MN	St. Louis	486	10.7	6.9
294	MI	Emmet	491	15.9	12.3	289	WI	Douglas	486	10.7	8.6
294	MI	Cheboygan	491	15.9	11.7	289	MN	Carlton	486	10.7	6.1
294	MI	Charlevoix	491	15.9	12.9	289	MN	Pine	486	10.7	56.3
294	MI	Mackinac	491	15.9	37.7	289	MN	Lake	603	10.7	6.8
294	MI	Chippewa	667	15.9	14.1	289	MN	Cook	1085	10.7	19.3
296	MI	Muskegon	493	16.7	10.3	289	MN	Itasca	1153	10.7	13.0
296	MI	Newaygo	493	16.7	37.8	289	MN	Koochiching	1154	10.7	17.3
296	MI	Oceana	493	16.7	16.9	396	MN	Rice	1168	25.4	25.4
296	MI	Mason	651	16.7	22.7	540	MN	Hennepin	923	11.2	7.5
297	MI	St. Clair	494	22.6	20.8	540	MN	Anoka	923	11.2	16.4
297	MI	Sanilac	494	22.6	27.9	540	MN	Scott	923	11.2	20.6

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
540	MN	Carver	923	11.2	7.4	539	MO	Barton	1109	13.1	19.7
540	MN	Sherburne	923	11.2	53.5	541	MO	St. Louis	924	4.5	4.8
540	MN	Le Sueur	923	11.2	44.0	541	MO	St. Louis City	924	4.5	3.0
540	MN	McLeod	1037	11.2	5.5	541	MO	Jefferson	924	4.5	4.4
540	MN	Sibley	1037	11.2	23.1	541	MO	Franklin	924	4.5	9.0
540	MN	Wright	1083	11.2	20.5	541	MO	St. Francois	965	4.5	3.8
552	MN	Olmsted	936	11.7	5.0	541	MO	Washington	965	4.5	3.2
552	MN	Fillmore	936	11.7	27.0	541	MO	Iron	1072	4.5	12.5
552	MN	Wabasha	936	11.7	8.5	541	MO	St. Genevieve	1087	4.5	16.8
552	MN	Dodge	936	11.7	7.9	548	MO	Jackson	931	9.1	6.5
552	MN	Winona	1060	11.7	16.3	548	MO	Cass	931	9.1	13.3
552	MN	Mower	1061	11.7	5.3	548	MO	Johnson	931	9.1	19.8
552	IA	Howard	1126	11.7	27.1	548	MO	Lafayette	931	9.1	17.7
552	MN	Steele	1156	11.7	14.2	548	MO	Clay	959	9.1	6.3
573	MN	Blue Earth	957	29.1	22.3	548	MO	Platte	959	9.1	21.6
573	MN	Nicollet	957	29.1	30.7	548	MO	Ray	959	9.1	3.7
573	MN	Waseca	1084	29.1	44.7	548	MO	Clinton	959	9.1	21.5
573	MN	Watonwan	1158	29.1	30.0	548	MO	Daviess	959	9.1	41.5
582	MN	Otter Tail	1066	31.8	31.7	548	MO	Caldwell	959	9.1	23.9
582	MN	Grant	1066	31.8	32.3	549	MO	Greene	932	11.6	4.0
588	MN	Stearns	974	19.8	12.7	549	MO	Christian	932	11.6	5.5
588	MN	Benton	974	19.8	16.4	549	MO	Webster	932	11.6	3.9
588	MN	Meeker	974	19.8	34.8	549	MO	Polk	932	11.6	11.6
592	MN	Kandiyohi	979	16.4	14.9	549	MO	Stone	932	11.6	41.1
592	MN	Chippewa	979	16.4	12.4	549	MO	Wright	932	11.6	4.9
592	MN	Yellow Medicine	979	16.4	20.2	549	MO	Dallas	932	11.6	8.1
592	MN	Swift	1148	16.4	15.4	549	MO	Douglas	932	11.6	3.9
592	MN	Lac Qui Parle	1166	16.4	20.2	549	MO	Ozark	932	11.6	59.8
597	MN	Beltrami	987	18.4	16.5	549	MO	Dade	932	11.6	19.9
597	MN	Clearwater	987	18.4	23.8	549	MO	Hickory	932	11.6	36.9
602	MN	Brown	994	34.7	25.6	549	MO	Lawrence	1006	11.6	9.1
602	MN	Redwood	994	34.7	35.0	549	MO	Barry	1006	11.6	16.6
602	MN	Renville	1077	34.7	47.2	549	MO	Laclede	1091	11.6	6.2
603	MN	Isanti	995	22.0	19.0	549	MO	Texas	1141	11.6	19.2
603	MN	Kanabec	995	22.0	23.0	553	MO	Boone	937	17.8	15.1
603	MN	Mille Lacs	1171	22.0	23.7	553	MO	Cooper	937	17.8	17.1
604	MN	Pennington	996	30.8	16.2	553	MO	Howard	937	17.8	6.0
604	MN	Marshall	996	30.8	37.2	553	MO	Randolph	1119	17.8	5.8
604	MN	Red Lake	996	30.8	58.5	553	MO	Chariton	1119	17.8	33.2
604	MN	Kittson	1151	30.8	24.3	553	MO	Macon	1137	17.8	29.8
608	MN	Douglas	1001	15.8	14.9	553	MO	Shelby	1137	17.8	41.2
608	MN	Pope	1001	15.8	13.6	563	IL	Union	634	14.9	17.5
608	MN	Stevens	1152	15.8	18.8	563	MO	Cape Girardeau	948	14.9	7.6
609	MN	Lyon	1003	31.6	34.1	563	MO	Scott	948	14.9	7.2
609	MN	Lincoln	1003	31.6	27.3	563	MO	New Madrid	948	14.9	27.6
612	MN	Crow Wing	1007	25.7	16.1	563	MO	Perry	948	14.9	8.9
612	MN	Cass	1007	25.7	43.1	563	MO	Mississippi	948	14.9	8.9
612	MN	Hubbard	1007	25.7	32.4	563	IL	Alexander	948	14.9	24.2
612	MN	Wadena	1007	25.7	22.7	563	MO	Bollinger	948	14.9	9.2
612	MN	Aitkin	1112	25.7	30.9	563	IL	Pulaski	948	14.9	42.5
619	MN	Nobles	1016	28.3	29.4	563	MO	Butler	990	14.9	15.6
619	MN	Jackson	1016	28.3	21.6	563	MO	Stoddard	990	14.9	10.1
619	MN	Cottonwood	1107	28.3	33.1	563	MO	Ripley	990	14.9	18.4
619	MN	Murray	1135	28.3	28.6	563	MO	Wayne	990	14.9	20.9
626	MN	Martin	1025	30.0	27.9	563	MO	Carter	990	14.9	33.5
626	IA	Emmet	1025	30.0	33.8	566	MO	Adair	951	23.4	12.7
631	MN	Roseau	1031	33.2	37.7	566	MO	Sullivan	951	23.4	24.8
631	MN	Lake Of The Woods	1031	33.2	23.2	566	MO	Putnam	951	23.4	27.1
646	MN	Freeborn	1053	27.5	26.1	566	MO	Knox	951	23.4	35.4
646	MN	Faribault	1053	27.5	29.2	566	MO	Schuyler	951	23.4	25.7
539	MO	Jasper	922	13.1	7.5	566	MO	Scotland	1098	23.4	30.0
539	MO	Newton	922	13.1	10.4	581	MO	Cole	967	34.3	9.1
539	KS	Cherokee	922	13.1	16.6	581	MO	Miller	967	34.3	43.3
539	MO	McDonald	922	13.1	41.2	581	MO	Crawford	967	34.3	99.7
						581	MO	Gasconade	967	34.3	43.2
						581	MO	Moniteau	967	34.3	26.3
						581	MO	Osage	967	34.3	10.7
						581	MO	Maries	967	34.3	32.4

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				Area	County					Area	County
581	MO	Callaway	1134	34.3	35.8	422	MS	Coahoma	701	22.1	14.4
591	MO	Buchanan	978	17.1	11.6	422	MS	Tallahatchie	701	22.1	41.0
591	MO	Nodaway	978	17.1	13.3	422	MS	Quitman	701	22.1	22.0
591	MO	Andrew	978	17.1	11.6	431	MS	Warren	710	15.2	11.3
591	KS	Doniphan	978	17.1	34.2	431	MS	Claiborne	710	15.2	24.2
591	MO	DeKalb	978	17.1	48.6	431	LA	Madison	812	15.2	19.1
591	MO	Gentry	978	17.1	14.5	435	MS	Adams	714	19.7	10.7
591	MO	Worth	978	17.1	12.4	435	LA	Concordia	714	19.7	18.0
591	MO	Harrison	1145	17.1	34.2	435	LA	Tensas	714	19.7	30.9
599	MO	St. Charles	989	28.4	29.2	435	MS	Franklin	838	19.7	29.6
599	MO	Lincoln	989	28.4	20.4	435	MS	Jefferson	839	19.7	30.7
599	MO	Warren	989	28.4	37.3	455	MS	Jones	736	25.3	19.7
607	MO	Henry	1000	27.4	23.9	455	MS	Jasper	736	25.3	28.3
607	MO	St. Clair	1000	27.4	19.0	455	MS	Smith	736	25.3	51.1
607	MO	Bates	1159	27.4	36.4	455	MS	Wayne	837	25.3	24.2
627	MO	Pulaski	1027	38.2	61.9	456	MS	Harrison	737	13.4	8.7
627	MO	Phelps	1027	38.2	25.0	456	MS	Hancock	737	13.4	22.5
627	MO	Dent	1027	38.2	28.8	456	MS	Stone	843	13.4	35.0
627	MO	Reynolds	1101	38.2	52.6	459	MS	Lafayette	741	24.3	13.1
639	MO	Vernon	1046	46.5	38.7	459	MS	Calhoun	741	24.3	24.6
639	MO	Cedar	1046	46.5	55.2	459	MS	Yalobusha	741	24.3	36.3
656	MO	Pettis	1080	32.6	10.6	461	MS	Lowndes	743	19.7	10.1
656	MO	Morgan	1080	32.6	68.0	461	AL	Lamar	743	19.7	43.3
656	MO	Benton	1080	32.6	58.1	461	MS	Noxubee	743	19.7	21.6
656	MO	Saline	1081	32.6	26.6	461	MS	Clay	889	19.7	15.7
657	MO	Carroll	1102	36.4	40.6	471	MS	Jackson	755	16.9	13.6
657	MO	Livingston	1103	36.4	33.2	471	MS	George	755	16.9	31.8
663	MO	Madison	1175	41.5	41.5	477	MS	Pike	762	27.1	16.1
666	MO	Audrain	1178	38.7	16.3	477	MS	Walthall	762	27.1	21.4
666	MO	Montgomery	1178	38.7	59.0	477	MS	Amite	762	27.1	57.4
666	MO	Monroe	1178	38.7	72.6	477	MS	Marion	846	27.1	33.1
673	MO	Linn	1185	35.2	35.2	482	MS	Union	768	33.1	22.6
676	MO	Taney	1188	31.7	31.7	482	MS	Pontotoc	768	33.1	39.0
678	MO	Atchison	1190	40.2	27.8	482	MS	Tippah	856	33.1	39.5
678	MO	Holt	1190	40.2	53.2	484	MS	Oktibbeha	775	28.7	26.3
683	MO	Grundy	1195	41.5	35.4	484	MS	Webster	775	28.7	26.1
683	MO	Mercer	1195	41.5	64.5	484	MS	Choctaw	775	28.7	30.4
685	MO	Camden	1197	47.2	47.2	484	MS	Winston	865	28.7	32.9
409	MS	Forrest	688	12.4	6.2	487	MS	Bolivar	778	22.2	28.7
409	MS	Lamar	688	12.4	11.1	487	MS	Sunflower	778	22.2	18.5
409	MS	Perry	688	12.4	11.7	487	MS	Leflore	796	22.2	14.5
409	MS	Greene	688	12.4	46.2	487	MS	Humphreys	796	22.2	37.7
409	MS	Covington	823	12.4	21.1	488	MS	Washington	780	16.7	12.9
411	MS	Hinds	690	8.1	6.0	488	MS	Sharkey	780	16.7	33.2
411	MS	Rankin	690	8.1	4.2	488	MS	Issaquena	780	16.7	52.2
411	MS	Madison	690	8.1	3.9	498	MS	Alcorn	793	29.6	20.8
411	MS	Scott	690	8.1	16.1	498	MS	Tishomingo	793	29.6	42.1
411	MS	Leake	814	8.1	17.9	502	MS	Grenada	799	30.5	24.5
411	MS	Simpson	860	8.1	4.1	502	MS	Montgomery	799	30.5	27.7
411	MS	Attala	867	8.1	11.2	502	MS	Carroll	799	30.5	57.0
411	MS	Holmes	868	8.1	15.3	504	MS	Jefferson Davis	801	45.2	55.9
412	MS	Lauderdale	691	10.6	3.9	504	MS	Lawrence	801	45.2	38.2
412	MS	Neshoba	691	10.6	15.0	511	MS	Copiah	817	36.9	43.4
412	MS	Newton	691	10.6	11.2	511	MS	Lincoln	818	36.9	31.2
412	AL	Choctaw	691	10.6	18.6	525	MS	Wilkinson	908	37.5	37.5
412	AL	Sumter	691	10.6	28.2	533	MS	Yazoo	916	33.2	33.2
412	MS	Kemper	691	10.6	7.8	691	MT	Rosebud	1203	6.4	23.2
412	MS	Clarke	855	10.6	12.1	691	MT	Big Horn	1203	6.4	7.7
418	MS	Lee	697	23.2	9.0	691	MT	Treasure	1203	6.4	12.2
418	MS	Monroe	697	23.2	59.1	691	MT	Yellowstone	1208	6.4	5.5
418	MS	Prentiss	697	23.2	11.4	691	MT	Carbon	1208	6.4	4.5
418	MS	Itawamba	697	23.2	11.9	691	MT	Stillwater	1208	6.4	7.1
418	MS	Chickasaw	877	23.2	16.3						

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				Area	County					Area	County
691	MT	Golden Valley	1208	6.4	12.0	170	NC	Person	273	11.0	5.9
691	MT	Musselshell	1298	6.4	3.5	170	NC	Vance	417	11.0	15.8
						170	NC	Warren	417	11.0	35.9
692	MT	Cascade	1204	6.5	4.4	186	NC	Guilford	289	13.3	8.8
692	MT	Pondera	1204	6.5	5.3	186	NC	Randolph	289	13.3	13.8
692	MT	Teton	1204	6.5	5.7	186	NC	Rockingham	289	13.3	11.5
692	MT	Chouteau	1204	6.5	17.5	186	NC	Davidson	444	13.3	26.6
692	MT	Judith Basin	1204	6.5	37.8	192	NC	Iredell	298	13.5	12.1
692	MT	Toole	1311	6.5	7.8	192	NC	Alexander	298	13.5	18.5
692	MT	Glacier	1345	6.5	6.6						
712	MT	Hill	1225	25.4	20.5	194	NC	Watauga	301	25.4	23.3
712	MT	Blaine	1225	25.4	25.8	194	TN	Johnson	301	25.4	35.6
712	MT	Liberty	1225	25.4	29.7	194	NC	Ashe	405	25.4	19.6
712	MT	Phillips	1316	25.4	35.5						
713	MT	Missoula	1226	9.3	5.9	195	NC	Pitt	303	13.8	14.5
713	MT	Mineral	1226	9.3	5.5	195	NC	Beaufort	303	13.8	9.2
713	MT	Granite	1226	9.3	31.5	195	NC	Martin	303	13.8	8.9
713	MT	Lake	1320	9.3	15.7	195	NC	Washington	303	13.8	16.2
713	MT	Sanders	1321	9.3	15.2	195	NC	Hyde	303	13.8	19.8
713	MT	Ravalli	1326	9.3	5.7	195	NC	Tyrrell	303	13.8	58.7
714	MT	Custer	1227	25.1	15.6	198	NC	Wake	308	14.4	12.2
714	MT	Fallon	1227	25.1	32.6	198	NC	Franklin	308	14.4	23.5
714	MT	Powder River	1227	25.1	51.0	198	NC	Johnston	350	14.4	19.7
714	MT	Carter	1227	25.1	23.7	198	NC	Wilson	350	14.4	10.6
714	MT	Prairie	1227	25.1	32.7	203	NC	Orange	313	28.2	37.6
714	MT	Garfield	1227	25.1	44.6	203	NC	Chatham	313	28.2	18.8
721	MT	Lewis And Clark	1234	19.2	15.7	203	NC	Harnett	358	28.2	30.1
721	MT	Jefferson	1234	19.2	53.8	203	NC	Lee	358	28.2	23.0
721	MT	Broadwater	1234	19.2	8.0	205	NC	Moore	315	17.0	15.3
728	MT	Flathead	1242	12.8	11.4	205	NC	Richmond	315	17.0	15.2
728	MT	Lincoln	1242	12.8	17.9	205	NC	Montgomery	315	17.0	15.5
733	MT	Sheridan	1247	25.8	20.6	205	NC	Hoke	315	17.0	43.1
733	MT	Daniels	1247	25.8	42.7	207	NC	Robeson	317	28.6	23.3
742	MT	Silver Bow	1257	12.6	10.7	207	NC	Scotland	317	28.6	29.0
742	MT	Deer Lodge	1257	12.6	18.4	207	NC	Columbus	359	28.6	36.3
742	MT	Beaverhead	1344	12.6	10.0	207	NC	Bladen	359	28.6	26.6
756	MT	Park	1273	29.8	26.4	209	NC	Jackson	319	20.1	19.5
756	MT	Sweet Grass	1273	29.8	43.7	209	NC	Macon	319	20.1	19.1
767	MT	Dawson	1287	27.0	30.2	209	NC	Swain	319	20.1	16.7
767	MT	McCone	1287	27.0	29.5	209	NC	Graham	319	20.1	32.7
767	MT	Wibaux	1287	27.0	42.7	214	NC	Nash	324	21.5	27.8
767	MT	Richland	1347	27.0	21.8	214	NC	Edgecombe	324	21.5	17.4
773	MT	Gallatin	1305	19.7	15.1	214	NC	Halifax	324	21.5	13.8
773	MT	Madison	1306	19.7	35.4	214	NC	Northampton	324	21.5	39.0
778	MT	Meagher	1330	43.4	36.0	218	NC	Gaston	331	19.1	23.2
778	MT	Wheatland	1331	43.4	51.7	218	NC	Lincoln	331	19.1	34.2
779	MT	Roosevelt	1336	23.5	27.6	218	NC	Cleveland	368	19.1	10.1
779	MT	Valley	1337	23.5	18.1	218	NC	Rutherford	368	19.1	14.2
788	MT	Powell	1389	48.3	48.3	225	NC	Buncombe	340	7.0	5.3
810	MT	Fergus	1411	26.2	24.6	225	NC	Henderson	340	7.0	9.1
810	MT	Petroleum	1411	26.2	64.3	225	NC	Transylvania	340	7.0	9.5
149	NC	Forsyth	251	7.1	6.6	225	NC	Madison	340	7.0	17.1
149	NC	Surry	251	7.1	4.3	225	NC	Haywood	448	7.0	4.8
149	NC	Stokes	251	7.1	11.6	229	NC	Catawba	348	11.7	14.5
149	NC	Yadkin	251	7.1	6.9	229	NC	Burke	348	11.7	12.0
149	NC	Davie	251	7.1	13.2	229	NC	Caldwell	348	11.7	8.1
167	NC	Mecklenburg	270	8.7	8.7	235	NC	Rowan	362	16.1	16.3
167	NC	Union	270	8.7	5.7	235	NC	Cabarrus	362	16.1	14.8
167	NC	Anson	270	8.7	13.7	235	NC	Stanly	423	16.1	18.1
168	NC	New Hanover	271	11.0	7.3	238	NC	Lenoir	365	22.6	11.7
168	NC	Brunswick	271	11.0	19.8	238	NC	Duplin	365	22.6	45.8
168	NC	Pender	271	11.0	9.2	238	NC	Greene	365	22.6	57.6
170	NC	Durham	273	11.0	6.8	238	NC	Wayne	392	22.6	15.8
170	NC	Granville	273	11.0	11.2	240	NC	Yancey	369	28.7	45.0
						240	NC	Avery	369	28.7	18.2
						240	NC	Mitchell	369	28.7	25.7

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
242	NC	Craven	373	15.4	12.1	638	ND	Rolette	1045	29.3	28.9
242	NC	Carteret	373	15.4	10.6	638	ND	Towner	1045	29.3	32.7
242	NC	Pamlico	373	15.4	11.3	638	ND	Pierce	1146	29.3	28.0
242	NC	Jones	373	15.4	31.2	655	ND	Eddy	1075	38.4	35.7
242	NC	Onslow	402	15.4	23.7	655	ND	Ramsey	1076	38.4	26.2
243	NC	Chowan	374	30.2	22.3	655	ND	Benson	1076	38.4	62.8
243	NC	Hertford	439	30.2	26.0	670	ND	Grant	1182	31.7	31.7
243	NC	Bertie	439	30.2	27.9	680	ND	Dickey	1192	45.8	26.7
243	NC	Gates	439	30.2	64.0	680	ND	La Moure	1192	45.8	75.1
256	NC	Wilkes	455	30.3	30.3	684	ND	McIntosh	1196	30.3	22.2
258	NC	Cherokee	457	46.4	39.6	684	ND	Logan	1196	30.3	46.0
258	NC	Clay	457	46.4	63.7	542	NE	Douglas	925	8.3	4.5
261	NC	McDowell	460	26.5	26.5	542	NE	Sarpy	925	8.3	4.4
262	NC	Cumberland	461	19.2	14.2	542	NE	Cass	925	8.3	31.8
262	NC	Sampson	1417	19.2	28.6	542	NE	Washington	925	8.3	3.8
264	NC	Pasquotank	463	32.7	17.5	542	NE	Burt	925	8.3	12.5
264	NC	Dare	463	32.7	56.7	542	NE	Dodge	1014	8.3	4.9
264	NC	Perquimans	463	32.7	44.4	542	NE	Saunders	1014	8.3	38.0
264	NC	Camden	463	32.7	24.5	542	NE	Cuming	1115	8.3	28.0
267	NC	Alamance	466	26.4	26.4	542	NE	Colfax	1172	8.3	18.4
543	ND	Burleigh	926	10.7	6.5	555	NE	Hall	939	15.3	11.8
543	ND	Morton	926	10.7	8.0	555	NE	Merrick	939	15.3	21.0
543	ND	Mercer	926	10.7	5.7	555	NE	Howard	939	15.3	12.5
543	ND	Sloux	926	10.7	14.9	555	NE	Greeley	939	15.3	39.6
543	ND	Kidder	926	10.7	19.4	555	NE	Hamilton	1120	15.3	15.0
543	ND	Oliver	926	10.7	7.0	559	NE	Holt	944	30.7	31.6
543	ND	McLean	1095	10.7	22.6	559	NE	Brown	944	30.7	26.9
543	ND	Sheridan	1095	10.7	20.8	559	NE	Rock	944	30.7	22.7
543	ND	Emmons	1139	10.7	8.4	559	NE	Keya Paha	944	30.7	47.7
547	ND	Cass	930	9.1	6.6	561	NE	Lancaster	946	8.0	7.5
547	MN	Clay	930	9.1	4.0	561	NE	Seward	946	8.0	7.0
547	MN	Norman	930	9.1	10.3	561	NE	Saline	946	8.0	6.3
547	ND	Ransom	930	9.1	4.3	561	NE	Gage	1026	8.0	6.7
547	ND	Sargent	930	9.1	19.9	561	NE	Jefferson	1026	8.0	10.2
547	ND	Steele	930	9.1	19.0	561	NE	Butler	1133	8.0	16.7
547	MN	Becker	1017	9.1	12.9	564	NE	Adams	949	16.7	13.2
547	MN	Mahnomen	1017	9.1	10.6	564	NE	Clay	949	16.7	36.5
547	ND	Barnes	1100	9.1	6.2	564	NE	Nuckolls	949	16.7	12.6
547	ND	Griggs	1147	9.1	20.2	564	NE	Webster	949	16.7	12.0
547	ND	Trall	1170	9.1	16.7	570	NE	Buffalo	955	19.3	14.1
547	ND	Richland	1189	9.1	5.2	570	NE	Kearney	955	19.3	27.2
547	MN	Wilkin	1189	9.1	20.8	570	NE	Sherman	955	19.3	40.2
550	ND	Ward	933	14.3	7.3	570	NE	Dawson	1132	19.3	9.3
550	ND	Bottineau	933	14.3	11.9	570	NE	Frontier	1132	19.3	62.2
550	ND	Mountrail	933	14.3	19.9	570	NE	Gosper	1132	19.3	23.3
550	ND	McHenry	933	14.3	28.1	570	NE	Franklin	1165	19.3	24.0
550	ND	Renville	933	14.3	12.0	577	NE	Madison	962	19.4	20.2
550	ND	Burke	933	14.3	38.3	577	NE	Antelope	962	19.4	17.7
579	ND	Williams	964	17.4	15.0	577	NE	Pierce	962	19.4	18.5
579	ND	McKenzie	964	17.4	25.1	577	NE	Stanton	962	19.4	17.8
579	ND	Divide	964	17.4	18.0	577	NE	Wayne	1157	19.4	20.7
584	ND	Grand Forks	970	14.9	12.0	580	NE	Scott Bluff	966	14.2	8.7
584	ND	Walsh	970	14.9	10.5	580	NE	Box Butte	966	14.2	14.8
584	ND	Nelson	970	14.9	27.9	580	NE	Morrill	966	14.2	8.7
584	ND	Pembina	984	14.9	9.4	580	NE	Garden	966	14.2	14.7
584	ND	Cavalier	984	14.9	18.0	580	NE	Banner	966	14.2	11.1
584	MN	Polk	1116	14.9	17.8	580	NE	Grant	966	14.2	28.3
605	ND	Stark	997	19.2	15.4	580	MN	Morrison	1067	19.8	20.2
605	ND	Dunn	997	19.2	27.0	580	MN	Todd	1068	19.8	39.2
605	ND	Golden Valley	997	19.2	30.0	580	WY	Goshen	1300	14.2	17.9
605	ND	Billings	997	19.2	50.0	580	WY	Niobrara	1301	14.2	41.8
632	ND	Stutsman	1033	30.7	25.6	593	NE	Lincoln	980	21.0	18.4
632	ND	Foster	1033	30.7	27.9	593	NE	Keith	980	21.0	33.0
632	ND	Wells	1160	30.7	42.6	593	NE	Perkins	980	21.0	12.9
						593	NE	Hooker	980	21.0	32.6

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
593	NE	McPherson	980	21.0	33.3	93	NJ	Warren	113	28.0	27.3
593	NE	Arthur	980	21.0	16.7	108	NJ	Monmouth	133	14.9	13.4
594	NE	Valley	983	34.6	43.4	108	NJ	Ocean	133	14.9	16.1
594	NE	Garfield	983	34.6	31.8	126	NJ	Mercer	228	10.6	10.6
594	NE	Wheeler	983	34.6	52.5	127	NJ	Cumberland	229	17.6	17.6
594	NE	Custer	1092	34.6	30.4	508	NM	Lea	806	29.2	23.8
594	NE	Logan	1092	34.6	61.8	508	TX	Andrews	806	29.2	22.9
594	NE	Thomas	1092	34.6	57.9	508	TX	Gaines	806	29.2	55.7
594	NE	Loup	1092	34.6	19.0	693	NM	Bernalillo	1205	6.8	6.2
594	NE	Blaine	1092	34.6	54.8	693	NM	Valencia	1205	6.8	5.5
611	NE	York	1005	30.9	28.2	693	NM	Sandoval	1205	6.8	14.1
611	NE	Polk	1005	30.9	34.5	693	NM	Socorro	1205	6.8	5.0
613	KS	Decatur	1008	36.3	25.1	693	NM	Torrance	1205	6.8	8.4
613	KS	Sheridan	1008	36.3	42.0	724	NM	Santa Fe	1237	12.1	12.4
613	NE	Red Willow	1161	36.3	34.0	724	NM	Rio Arriba	1237	12.1	9.2
613	NE	Hitchcock	1161	36.3	57.9	724	NM	Los Alamos	1237	12.1	16.7
616	NE	Phelps	1012	22.0	12.4	724	NM	Taos	1353	12.1	13.6
616	NE	Furnas	1012	22.0	28.3	725	NM	Curry	1238	20.5	16.1
616	NE	Harlan	1012	22.0	35.0	725	NM	Roosevelt	1238	20.5	22.8
628	NE	Richardson	1028	32.2	31.2	725	NM	De Baca	1238	20.5	24.6
628	NE	Pawnee	1028	32.2	34.3	725	NM	Quay	1380	20.5	27.6
651	NE	Boone	1062	36.4	47.7	732	NM	Dona Ana	1246	19.3	19.9
651	NE	Platte	1063	36.4	32.1	732	NM	Luna	1246	19.3	15.8
651	NE	Nance	1096	36.4	36.5	732	NM	Sierra	1307	19.3	21.2
654	NE	Chase	1073	34.4	24.7	740	AZ	Navajo	1255	24.6	49.3
654	NE	Hayes	1073	34.4	63.9	740	UT	San Juan	1255	24.6	23.0
654	NE	Dundy	1074	34.4	43.9	740	CO	La Plata	1292	24.6	11.9
658	NE	Fillmore	1105	40.8	33.4	740	CO	Archuleta	1292	24.6	21.9
658	NE	Thayer	1106	40.8	48.6	740	CO	San Juan	1292	24.6	41.7
660	NE	Johnson	1113	39.6	32.4	740	CO	Montezuma	1293	24.6	6.5
660	NE	Otoe	1114	39.6	42.6	740	CO	Dolores	1293	24.6	25.3
668	NE	Cherry	1180	59.0	59.0	740	NM	San Juan	1354	24.6	13.6
687	NE	Nemaha	1199	32.2	32.2	765	NM	McKinley	1285	21.7	13.8
15	NH	Grafton	17	13.3	18.3	765	AZ	Apache	1285	21.7	30.0
15	VT	Windsor	17	13.3	11.0	769	NM	Otero	1289	19.8	15.3
15	VT	Orange	17	13.3	8.0	769	NM	Lincoln	1289	19.8	31.3
15	VT	Washington	190	13.3	11.1	772	NM	Chaves	1303	8.6	7.5
15	NH	Sullivan	215	13.3	13.8	772	NM	Eddy	1304	8.6	9.7
90	NH	Cheshire	105	25.4	23.0	793	NM	Grant	1394	28.2	22.1
90	VT	Windham	105	25.4	29.6	793	NM	Hidalgo	1394	28.2	44.9
91	NH	Merrimack	108	14.0	11.4	793	NM	Catron	1394	28.2	59.5
91	NH	Belknap	108	14.0	14.9	801	NM	San Miguel	1402	26.3	25.5
91	NH	Hillsborough	169	14.0	11.6	801	NM	Mora	1402	26.3	14.3
91	NH	Carroll	210	14.0	31.6	801	NM	Guadalupe	1402	26.3	28.3
138	NH	Coos	240	17.2	12.9	801	NM	Harding	1402	26.3	76.7
138	VT	Essex	240	17.2	49.8	814	NM	Union	1415	23.6	23.6
23	NJ	Camden	25	13.2	11.8	701	NV	Washoe	1214	11.8	11.2
23	NJ	Gloucester	25	13.2	12.3	701	NV	Churchill	1214	11.8	9.0
23	NJ	Salem	25	13.2	14.8	701	NV	Humboldt	1214	11.8	20.8
23	NJ	Burlington	184	13.2	15.5	701	NV	Pershing	1214	11.8	6.7
36	NJ	Bergen	39	14.0	13.0	701	NV	Storey	1214	11.8	8.8
36	NJ	Passaic	39	14.0	20.3	701	NV	Ormsby	1265	11.8	11.2
36	NJ	Hudson	208	14.0	10.7	701	NV	Douglas	1265	11.8	29.8
64	NJ	Atlantic	71	18.9	18.3	701	NV	Lyon	1265	11.8	6.7
64	NJ	Cape May	71	18.9	19.9	701	CA	Alpine	1265	11.8	43.7
66	NJ	Middlesex	73	11.5	18.0	701	NV	Mineral	1332	11.8	2.6
66	NJ	Somerset	73	11.5	22.7	707	NV	Clark	1220	10.1	8.7
66	NJ	Essex	111	11.5	8.1	707	UT	Washington	1220	10.1	12.5
66	NJ	Union	111	11.5	6.9	707	NV	Nye	1220	10.1	24.4
87	NJ	Morris	99	23.0	24.9	707	NV	Lincoln	1220	10.1	15.4
87	NJ	Sussex	99	23.0	17.1	707	NV	Esmeralda	1220	10.1	52.6
93	NJ	Hunterdon	113	28.0	29.1	707	UT	Kane	1290	10.1	21.8
						707	UT	Garfield	1290	10.1	27.9
						707	UT	Piute	1290	10.1	48.7

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				Area	County					Area	County
720	NV	Elko	1233	29.8	27.7	88	NY	Schenectady	198	18.4	10.6
720	NV	Lander	1233	29.8	34.2	94	NY	New York	114	11.9	11.0
720	NV	Eureka	1233	29.8	44.8	94	NY	Bronx	114	11.9	12.8
805	NV	White Pine	1406	38.0	38.0	105	NY	Tompkins	128	12.2	13.1
10	NY	Albany	11	10.0	8.8	105	NY	Cortland	128	12.2	11.0
10	NY	Rensselaer	11	10.0	9.4	113	NY	Kings	166	19.4	21.5
10	VT	Bennington	141	10.0	20.9	113	NY	Richmond	167	19.4	8.0
19	PA	Bradford	21	11.7	16.0	133	NY	Rockland	235	15.3	15.3
19	NY	Tioga	21	11.7	11.6	24	OH	Belmont	26	8.7	5.7
19	PA	Sullivan	21	11.7	53.0	24	WV	Ohio	26	8.7	5.3
19	NY	Broome	84	11.7	5.3	24	OH	Monroe	26	8.7	23.4
19	PA	Susquehanna	84	11.7	31.0	24	WV	Wetzel	46	8.7	20.7
21	NY	Ontario	23	16.8	14.6	24	WV	Tyler	46	8.7	22.0
21	NY	Seneca	23	16.8	20.1	24	WV	Marshall	142	8.7	5.5
21	NY	Wayne	151	16.8	16.6	270	OH	Hamilton	469	6.6	3.3
21	NY	Yates	195	16.8	18.6	270	OH	Clermont	469	6.6	3.7
35	PA	McKean	38	20.6	14.6	270	OH	Warren	469	6.6	37.0
35	PA	Potter	38	20.6	19.4	270	OH	Brown	469	6.6	15.3
35	PA	Cameron	38	20.6	56.7	270	OH	Adams	593	6.6	21.5
35	NY	Cattaraugus	89	20.6	24.7	270	OH	Butler	672	6.6	6.0
35	NY	Allegany	89	20.6	17.0	270	IN	Franklin	672	6.6	60.4
41	NY	Westchester	44	14.2	12.7	276	OH	Lucas	474	7.1	3.1
41	NY	Putnam	44	14.2	15.3	276	OH	Wood	474	7.1	10.5
41	NY	Dutchess	129	14.2	18.0	276	OH	Fulton	474	7.1	11.8
41	NY	Ulster	129	14.2	17.2	276	OH	Ottawa	601	7.1	18.3
54	NY	Monroe	60	4.7	5.2	276	MI	Monroe	636	7.1	15.6
54	NY	Livingston	60	4.7	12.3	281	OH	Franklin	479	6.0	4.9
54	NY	Erie	94	4.7	4.5	281	OH	Pickaway	479	6.0	8.6
54	NY	Genesee	94	4.7	3.7	281	OH	Madison	479	6.0	14.8
54	NY	Wyoming	94	4.7	6.1	281	OH	Fayette	600	6.0	9.6
54	NY	Niagara	112	4.7	3.4	281	OH	Delaware	654	6.0	11.2
54	NY	Orleans	112	4.7	3.1	283	OH	Jackson	481	16.0	22.4
56	NY	Onondaga	62	8.6	6.2	283	OH	Gallia	481	16.0	10.1
56	NY	Oswego	62	8.6	13.9	283	WV	Mason	481	16.0	13.0
56	NY	Cayuga	187	8.6	11.9	283	OH	Meigs	481	16.0	19.4
58	NY	Otsego	64	17.1	8.6	288	OH	Cuyahoga	485	4.2	3.2
58	NY	Delaware	64	17.1	13.9	288	OH	Lake	485	4.2	4.1
58	NY	Schoharie	64	17.1	22.9	288	OH	Geauga	485	4.2	6.5
58	NY	Chenango	181	17.1	31.5	288	OH	Ashtabula	610	4.2	18.0
59	NY	Oneida	65	11.4	7.3	292	OH	Allen	489	12.7	7.5
59	NY	Herkimer	65	11.4	10.9	292	OH	Auglaize	489	12.7	12.7
59	NY	Madison	65	11.4	32.1	292	OH	Putnam	489	12.7	15.0
65	NY	Steuben	72	13.7	16.0	292	OH	Hardin	489	12.7	20.1
65	NY	Chemung	72	13.7	10.7	292	OH	Mercer	570	12.7	13.5
65	NY	Schuyler	72	13.7	13.6	292	OH	Van Wert	570	12.7	20.2
76	NY	Fulton	86	19.0	13.3	295	OH	Montgomery	492	10.5	5.7
76	NY	Montgomery	86	19.0	23.3	295	OH	Greene	492	10.5	13.8
80	NY	Jefferson	91	12.3	10.3	295	OH	Preble	492	10.5	52.7
80	NY	Lewis	91	12.3	15.3	295	OH	Darke	646	10.5	28.6
80	NY	St. Lawrence	206	12.3	13.2	337	OH	Ross	534	20.0	22.7
81	NY	Clinton	92	11.2	7.3	337	OH	Pike	534	20.0	20.5
81	NY	Essex	92	11.2	17.0	337	OH	Scioto	647	20.0	11.9
81	NY	Franklin	140	11.2	10.8	337	KY	Lewis	647	20.0	59.6
83	NY	Nassau	95	14.0	9.0	345	PA	Mercer	199	7.8	8.8
83	NY	Suffolk	95	14.0	6.9	345	OH	Mahoning	541	7.8	8.9
83	NY	Queens	177	14.0	21.6	345	OH	Trumbull	541	7.8	5.8
86	NY	Orange	98	19.2	14.5	346	OH	Clark	542	14.9	11.8
86	NY	Sullivan	98	19.2	24.7	346	OH	Champaign	542	14.9	27.6
86	PA	Pike	98	19.2	49.1	347	OH	Stark	543	13.5	9.1
88	NY	Saratoga	100	18.4	32.3	347	OH	Tuscarawas	543	13.5	16.0
88	NY	Washington	100	18.4	17.0	347	OH	Carroll	543	13.5	18.7
88	NY	Warren	100	18.4	9.3	347	OH	Wayne	564	13.5	32.6
88	NY	Hamilton	100	18.4	68.1	347	OH	Holmes	564	13.5	17.1
						352	OH	Summit	547	14.5	10.9

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
352	OH	Portage	547	14.5	22.8	440	OK	Beckham	720	23.5	22.6
352	OH	Medina	624	14.5	28.6	440	OK	Roger Mills	720	23.5	26.7
354	OH	Marion	549	18.2	9.4	445	OK	Muskogee	726	22.0	14.3
354	OH	Wyandot	549	18.2	30.0	445	OK	Wagoner	726	22.0	32.8
354	OH	Crawford	606	18.2	15.9	445	OK	McIntosh	726	22.0	28.7
354	OH	Morrow	607	18.2	23.9	445	OK	Cherokee	774	22.0	17.7
354	OH	Union	630	18.2	24.8	445	OK	Adair	774	22.0	33.8
356	OH	Defiance	552	27.7	22.5	451	OK	Washington	732	17.7	16.6
356	OH	Henry	552	27.7	42.9	451	KS	Montgomery	732	17.7	15.6
356	OH	Paulding	635	27.7	35.6	451	OK	Nowata	732	17.7	14.7
356	OH	Williams	675	27.7	18.7	451	KS	Chautauqua	732	17.7	15.8
360	OH	Jefferson	556	34.1	30.8	451	KS	Elk	732	17.7	56.2
360	OH	Harrison	556	34.1	51.8	466	OK	Pittsburg	749	24.7	23.9
366	OH	Erie	566	15.4	7.3	466	OK	Latimer	749	24.7	27.1
366	OH	Huron	566	15.4	12.8	466	OK	Pushmataha	853	24.7	25.4
366	OH	Sandusky	611	15.4	27.1	469	OK	Woodward	752	29.4	25.0
366	OH	Lorain	669	15.4	16.3	469	OK	Ellis	752	29.4	15.0
368	OH	Fairfield	569	31.1	30.6	469	OK	Harper	752	29.4	25.2
368	OH	Hocking	569	31.1	19.3	469	TX	Lipscomb	752	29.4	50.8
368	OH	Athens	670	31.1	31.9	469	OK	Dewey	864	29.4	39.2
368	OH	Vinton	670	31.1	65.4	472	OK	Payne	756	28.3	20.4
369	OH	Richland	572	19.0	19.9	472	OK	Pawnee	756	28.3	39.9
369	OH	Ashland	572	19.0	16.6	472	OK	Noble	756	28.3	45.3
372	OH	Clinton	576	28.1	22.2	474	OK	Carter	758	18.8	15.3
372	OH	Highland	576	28.1	34.9	474	OK	Love	758	18.8	16.4
376	OH	Miami	580	18.3	17.5	474	OK	Johnston	847	18.8	28.1
376	OH	Shelby	580	18.3	20.5	474	OK	Marshall	848	18.8	23.3
377	OH	Muskingum	581	15.9	5.8	475	OK	Custer	760	39.7	29.3
377	OH	Guernsey	581	15.9	14.9	475	OK	Washita	760	39.7	55.7
377	OH	Perry	581	15.9	28.5	476	OK	Grady	761	38.7	29.1
377	OH	Morgan	581	15.9	34.2	476	OK	Caddo	761	38.7	47.7
377	OH	Noble	581	15.9	31.3	478	OK	Pontotoc	763	26.7	17.1
377	OH	Coshocton	631	15.9	18.5	478	OK	Coal	763	26.7	18.0
380	OH	Columbiana	584	25.9	20.3	478	OK	Seminole	810	26.7	36.9
380	WV	Hancock	584	25.9	16.8	478	OK	Hughes	810	26.7	31.5
380	WV	Brooke	584	25.9	64.6	483	OK	Jackson	770	18.2	16.2
386	OH	Hancock	594	20.6	16.1	483	OK	Greer	770	18.2	18.3
386	OH	Seneca	595	20.6	23.8	483	OK	Harmon	770	18.2	25.3
388	OH	Knox	612	26.3	23.6	493	OK	Comanche	787	20.5	10.5
388	OH	Licking	613	26.3	27.8	493	OK	Kiowa	787	20.5	28.0
388	OH	Licking	613	26.3	27.8	493	OK	Cotton	787	20.5	39.3
398	OH	Logan	677	33.1	33.1	493	OK	Tillman	831	20.5	30.4
414	OK	Tulsa	693	8.4	5.5	497	OK	Stephens	792	31.1	27.0
414	OK	Creek	693	8.4	9.0	497	OK	Jefferson	792	31.1	46.5
414	OK	Rogers	693	8.4	5.6	515	OK	Kay	894	25.0	16.3
414	OK	Mayes	693	8.4	11.6	515	OK	Osage	895	25.0	44.0
414	OK	Ottawa	782	8.4	28.1	529	OK	Okmulgee	912	34.5	30.3
414	OK	Craig	782	8.4	10.0	529	OK	Okfuskee	912	34.5	47.1
417	OK	Oklahoma	696	7.3	5.6	535	OK	Beaver	918	48.3	48.3
417	OK	Canadian	696	7.3	8.4	689	OR	Multnomah	1201	4.6	3.9
417	OK	Logan	696	7.3	11.2	689	OR	Washington	1201	4.6	5.3
417	OK	Pottawatomie	773	7.3	14.5	689	OR	Clackamas	1201	4.6	5.7
417	OK	Lincoln	773	7.3	19.6	689	WA	Cowlitz	1253	4.6	5.3
429	OK	Garfield	708	16.5	8.4	689	OR	Columbia	1253	4.6	3.5
429	OK	Major	708	16.5	16.0	689	WA	Wahkiakum	1253	4.6	6.6
429	OK	Alfalfa	708	16.5	16.2	689	OR	Clatsop	1318	4.6	5.4
429	OK	Grant	708	16.5	25.9	689	WA	Clark	1333	4.6	4.7
429	OK	Blaine	815	16.5	32.6	705	OR	Marion	1218	23.0	23.7
429	OK	Kingfisher	816	16.5	21.1	705	OR	Polk	1218	23.0	13.0
429	OK	Woods	821	16.5	12.9	705	OR	Yamhill	1366	23.0	26.0
430	OK	Cleveland	709	26.2	23.5	717	WA	Walla Walla	1230	12.6	9.5
430	OK	McClain	709	26.2	33.2	717	WA	Columbia	1230	12.6	13.8
430	OK	Garvin	789	26.2	22.2	717	OR	Umatilla	1299	12.6	14.8
430	OK	Murray	789	26.2	39.9	717	OR	Umatilla	1299	12.6	14.8

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800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
717	OR	Morrow	1299	12.6	16.8	48	MD	Frederick	216	13.0	13.7
719	OR	Deschutes	1232	12.1	12.0	52	PA	Venango	58	22.9	11.6
719	OR	Crook	1232	12.1	12.5	52	PA	Clarion	58	22.9	35.1
719	OR	Jefferson	1232	12.1	11.4	52	PA	Forest	58	22.9	62.2
719	OR	Wheeler	1232	12.1	23.7	57	PA	Cambria	63	9.2	5.8
719	OR	Harney	1340	12.1	10.8	57	PA	Somerset	63	9.2	13.1
727	OR	Linn	1240	16.2	17.5	57	PA	Blair	120	9.2	6.6
727	OR	Benton	1240	16.2	12.8	57	PA	Bedford	120	9.2	24.0
729	OR	Malheur	1243	25.7	22.0	72	PA	Franklin	80	9.6	9.1
729	ID	Payette	1243	25.7	25.4	72	MD	Washington	80	9.6	9.2
729	ID	Washington	1243	25.7	23.6	72	PA	Fulton	80	9.6	16.8
729	ID	Adams	1358	25.7	48.8	78	PA	Luzerne	88	10.8	7.9
738	CA	Del Norte	1252	20.9	32.8	78	PA	Columbia	88	10.8	22.3
738	OR	Curry	1252	20.9	32.2	78	PA	Wyoming	159	10.8	25.9
738	OR	Coos	1313	20.9	14.1	84	PA	Lehigh	96	9.1	4.6
743	OR	Klamath	1258	12.8	11.5	84	PA	Northampton	96	9.1	5.0
743	OR	Lake	1258	12.8	26.2	84	PA	Carbon	175	9.1	30.2
748	OR	Wasco	1264	21.3	18.2	84	PA	Monroe	191	9.1	16.2
748	WA	Klickitat	1264	21.3	19.0	100	PA	Washington	122	25.0	21.1
748	WA	Skamania	1264	21.3	37.8	100	PA	Fayette	122	25.0	29.1
748	OR	Sherman	1264	21.3	19.2	100	PA	Greene	150	25.0	29.2
748	OR	Gilliam	1264	21.3	31.5	106	PA	Erie	131	6.7	4.9
748	OR	Hood River	1341	21.3	22.6	106	PA	Warren	131	6.7	12.0
752	OR	Jackson	1269	11.2	6.8	106	NY	Chautauqua	186	6.7	7.7
752	OR	Josephine	1269	11.2	11.1	110	PA	Huntingdon	152	20.0	31.7
752	CA	Siskiyou	1373	11.2	22.7	110	PA	Mifflin	153	20.0	9.6
759	OR	Union	1277	21.4	19.9	110	PA	Juniata	153	20.0	27.2
759	OR	Wallowa	1277	21.4	22.2	117	PA	Crawford	219	22.4	22.4
759	OR	Baker	1387	21.4	22.3	125	PA	Eik	227	26.6	26.6
782	OR	Douglas	1359	9.4	13.2	128	PA	Tioga	230	32.6	32.6
782	OR	Lane	1360	9.4	7.8	129	PA	Lawrence	231	16.4	16.4
783	OR	Lincoln	1363	35.0	38.4	139	PA	Berks	241	13.7	13.7
783	OR	Tillamook	1364	35.0	30.5	140	PA	Lancaster	242	7.0	7.0
806	OR	Grant	1407	28.8	28.8	20	RI	Providence	22	5.8	3.7
8	PA	Schuylkill	9	16.5	18.8	20	RI	Kent	22	5.8	3.9
8	PA	Northumberland	9	16.5	10.0	20	RI	Bristol	22	5.8	12.0
8	PA	Snyder	9	16.5	23.1	20	CT	New London	104	5.8	12.4
8	PA	Union	9	16.5	17.0	20	RI	Washington	104	5.8	8.5
8	PA	Montour	9	16.5	22.0	160	SC	Richland	262	8.0	7.4
26	PA	Clearfield	29	16.1	14.7	160	SC	Lexington	262	8.0	4.6
26	PA	Jefferson	29	16.1	17.4	160	SC	Fairfield	262	8.0	11.5
26	PA	Centre	139	16.1	17.2	160	SC	Newberry	388	8.0	17.4
28	PA	Philadelphia	31	6.0	5.9	176	SC	Orangeburg	279	21.9	19.6
28	PA	Montgomery	31	6.0	5.5	176	SC	Bamberg	279	21.9	25.8
28	PA	Bucks	31	6.0	9.5	176	SC	Calhoun	279	21.9	22.4
28	PA	Delaware	144	6.0	3.5	176	SC	Allendale	426	21.9	28.1
28	PA	Chester	200	6.0	8.0	182	SC	Greenville	285	5.9	5.6
42	PA	Allegheny	45	5.6	2.9	182	SC	Anderson	285	5.9	5.6
42	PA	Butler	45	5.6	18.1	182	SC	Pickens	285	5.9	4.3
42	PA	Armstrong	45	5.6	5.4	182	SC	Oconee	285	5.9	10.7
42	PA	Westmoreland	110	5.6	8.6	184	SC	Florence	287	15.0	6.7
42	PA	Indiana	110	5.6	17.6	184	SC	Darlington	287	15.0	5.8
42	PA	Beaver	185	5.6	6.2	184	SC	Williamsburg	287	15.0	34.1
43	PA	Dauphin	47	7.4	5.1	184	SC	Chesterfield	380	15.0	36.2
43	PA	Cumberland	47	7.4	10.5	184	SC	Marlboro	450	15.0	23.1
43	PA	Perry	47	7.4	9.3	187	SC	Greenwood	290	21.3	9.1
43	PA	Lebanon	202	7.4	6.5	187	SC	Laurens	290	21.3	23.7
44	PA	Lycoming	48	6.6	6.0	187	SC	Abbeville	290	21.3	25.4
44	PA	Clinton	48	6.6	8.3	187	SC	Saluda	290	21.3	52.9
47	PA	Lackawanna	51	9.1	6.8	187	SC	McCormick	290	21.3	40.9
47	PA	Wayne	51	9.1	22.0	191	SC	Spartanburg	296	9.8	8.5
48	PA	York	52	13.0	12.5	191	SC	Cherokee	296	9.8	10.4
48	PA	Adams	52	13.0	14.4						

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				Area	County					Area	County
191	NC	Polk	296	9.8	24.1	610	SD	Brookings	1004	29.8	25.5
191	SC	Union	399	9.8	6.9	610	SD	Kingsbury	1004	29.8	38.0
196	SC	Sumter	306	23.9	16.4	615	SD	Davison	1011	24.3	13.2
196	SC	Clarendon	306	23.9	28.5	615	SD	Charles Mix	1011	24.3	20.8
196	SC	Lee	306	23.9	50.8	615	SD	Douglas	1011	24.3	35.6
199	SC	Marion	309	19.8	21.4	615	SD	Aurora	1011	24.3	25.0
199	SC	Dillon	309	19.8	17.7	615	SD	Hanson	1011	24.3	37.0
212	SC	Charleston	322	7.7	4.4	615	SD	Sanborn	1011	24.3	51.5
212	SC	Berkeley	322	7.7	6.7	615	SD	Brule	1150	24.3	16.3
212	SC	Dorchester	322	7.7	8.7	615	SD	Lyman	1150	24.3	46.8
212	SC	Colleton	322	7.7	6.3	615	SD	Buffalo	1150	24.3	29.7
212	SC	Hampton	322	7.7	42.0	623	SD	Shannon	1020	22.1	20.7
244	SC	York	375	24.7	24.1	623	NE	Sheridan	1020	22.1	20.2
244	SC	Chester	375	24.7	26.4	623	SD	Bennett	1020	22.1	26.8
246	SC	Horry	378	20.1	18.6	623	NE	Dawes	1123	22.1	20.4
246	SC	Georgetown	378	20.1	23.9	623	NE	Sioux	1123	22.1	50.0
249	SC	Kershaw	400	25.4	24.0	629	SD	Hughes	1029	25.5	22.2
249	SC	Lancaster	401	25.4	27.1	629	SD	Haakon	1029	25.5	32.7
544	SD	Minnehaha	927	13.9	5.0	629	SD	Stanley	1029	25.5	13.3
544	SD	Lincoln	927	13.9	9.7	629	SD	Ziebach	1029	25.5	68.4
544	IA	Lyon	927	13.9	22.2	629	SD	Sully	1029	25.5	35.3
544	SD	Union	927	13.9	57.6	629	SD	Jones	1029	25.5	23.1
544	SD	Turner	927	13.9	21.2	640	SD	Perkins	1047	24.5	20.1
544	SD	Moody	927	13.9	18.7	640	ND	Bowman	1047	24.5	14.4
544	SD	McCook	927	13.9	32.8	640	ND	Hettinger	1047	24.5	42.8
544	SD	Miner	927	13.9	39.4	640	ND	Adams	1047	24.5	11.6
544	SD	Lake	1125	13.9	7.5	640	SD	Harding	1047	24.5	65.7
544	MN	Rock	1155	13.9	6.9	640	ND	Slope	1047	24.5	34.1
544	MN	Pipestone	1169	13.9	11.4	648	SD	Walworth	1055	39.1	36.2
558	SD	Pennington	943	13.0	9.9	648	SD	Dewey	1055	39.1	32.8
558	SD	Fall River	943	13.0	12.7	648	SD	Corson	1055	39.1	62.9
558	SD	Custer	943	13.0	12.8	648	SD	Potter	1055	39.1	26.5
558	SD	Jackson	943	13.0	60.7	648	SD	Campbell	1055	39.1	59.3
558	SD	Meade	1032	13.0	14.1	141	TN	Hamilton	243	5.7	5.0
558	SD	Butte	1032	13.0	16.2	141	GA	Walker	243	5.7	5.6
568	SD	Codington	953	27.2	16.4	141	GA	Catoosa	243	5.7	7.0
568	SD	Hamlin	953	27.2	27.8	141	TN	Marion	243	5.7	6.2
568	SD	Deuel	953	27.2	42.2	141	GA	Dade	243	5.7	8.2
568	SD	Clark	953	27.2	39.6	141	TN	Sequatchie	243	5.7	21.1
568	SD	Grant	1149	27.2	32.9	146	TN	Shelby	248	5.3	2.7
572	SD	Brown	956	13.6	10.7	146	MS	De Soto	248	5.3	3.3
572	SD	Edmunds	956	13.6	8.4	146	TN	Tipton	248	5.3	2.5
572	SD	McPherson	956	13.6	9.5	146	MS	Marshall	248	5.3	17.3
572	SD	Spink	1069	13.6	16.4	146	TN	Fayette	248	5.3	3.7
572	SD	Faulk	1097	13.6	17.4	146	MS	Benton	248	5.3	58.1
572	SD	Day	1162	13.6	19.3	146	MS	Panola	807	5.3	25.7
572	SD	Marshall	1163	13.6	17.9	146	MS	Tate	807	5.3	2.9
578	SD	Yankton	963	28.3	11.0	146	MS	Tunica	836	5.3	23.2
578	SD	Clay	963	28.3	26.8	147	TN	Knox	249	5.9	4.3
578	NE	Cedar	963	28.3	62.6	147	TN	Sevier	249	5.9	6.0
578	NE	Knox	963	28.3	36.3	147	TN	Loudon	249	5.9	4.4
578	SD	Hutchinson	1022	28.3	31.3	147	TN	Union	249	5.9	18.5
578	SD	Bon Homme	1022	28.3	12.2	147	TN	McMinn	353	5.9	14.2
590	SD	Roberts	976	30.2	38.5	147	TN	Monroe	353	5.9	5.1
590	MN	Big Stone	976	30.2	23.7	147	TN	Meigs	353	5.9	27.2
590	MN	Traverse	976	30.2	26.5	147	TN	Blount	389	5.9	3.2
595	SD	Todd	985	27.7	24.6	148	TN	Davidson	250	5.2	4.1
595	SD	Tripp	985	27.7	20.3	148	TN	Williamson	250	5.2	4.5
595	SD	Mellette	985	27.7	48.1	148	TN	Robertson	250	5.2	7.4
595	SD	Gregory	1002	27.7	25.7	148	TN	Cheatham	250	5.2	9.2
595	NE	Boyd	1002	27.7	40.3	148	TN	Dickson	304	5.2	4.9
600	SD	Beadle	991	24.3	20.3	148	TN	Hickman	304	5.2	7.3
600	SD	Jerauld	991	24.3	16.5	148	TN	Humphreys	304	5.2	18.8
600	SD	Hand	1143	24.3	26.2	151	VA	Russell	174	10.7	20.0
600	SD	Hyde	1143	24.3	50.7	151	VA	Smyth	204	10.7	7.6
						151	TN	Sullivan	253	10.7	8.4

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
151	VA	Washington	253	10.7	5.7	248	TN	Dyer	393	39.3	33.2
151	TN	Hawkins	253	10.7	21.8	248	TN	Lake	393	39.3	57.7
151	VA	Scott	253	10.7	5.9	248	TN	Lauderdale	394	39.3	41.7
169	TN	Washington	272	12.0	14.1	252	TN	Cocke	430	20.1	35.2
169	TN	Carter	272	12.0	12.8	252	TN	Greene	431	20.1	11.5
169	TN	Unicoi	272	12.0	2.7	260	TN	Bedford	459	31.2	31.2
173	TN	Bradley	276	20.3	13.6	263	TN	Scott	462	29.5	29.5
173	GA	Fannin	276	20.3	27.8	404	TX	Bowie	683	12.5	7.8
173	TN	Polk	276	20.3	24.0	404	AR	Miller	683	12.5	6.6
173	GA	Gilmer	446	20.3	31.1	404	AR	Little River	683	12.5	5.0
181	TN	Oblon	284	26.0	21.7	404	AR	Lafayette	683	12.5	49.6
181	KY	Fulton	284	26.0	28.0	404	AR	Hempstead	740	12.5	8.9
181	TN	Weakley	412	26.0	29.3	404	AR	Nevada	740	12.5	21.1
188	TN	Madison	291	11.9	5.8	404	OK	McCurtain	747	12.5	24.7
188	TN	Gibson	291	11.9	9.2	404	AR	Sevier	747	12.5	6.1
188	TN	Henderson	291	11.9	8.7	404	AR	Howard	880	12.5	13.7
188	TN	Crockett	291	11.9	11.4	405	TX	Potter	684	10.9	5.4
188	TN	Chester	291	11.9	19.6	405	TX	Randall	684	10.9	5.2
188	TN	Decatur	291	11.9	10.3	405	TX	Hutchinson	684	10.9	12.1
188	TN	Hardeman	433	11.9	29.4	405	TX	Swisher	684	10.9	29.6
188	TN	Haywood	447	11.9	23.1	405	TX	Carson	684	10.9	47.2
208	TN	Maury	318	22.5	17.4	405	TX	Donley	684	10.9	20.5
208	TN	Marshall	318	22.5	25.5	405	TX	Oldham	684	10.9	5.8
208	TN	Lewis	318	22.5	26.7	405	TX	Armstrong	684	10.9	7.3
208	TN	Giles	434	22.5	27.6	405	TX	Briscoe	684	10.9	66.4
211	TN	Rutherford	321	25.2	30.5	405	TX	Moore	717	10.9	7.9
211	TN	Cannon	321	25.2	15.6	405	TX	Dallam	717	10.9	13.3
211	TN	Warren	357	25.2	20.7	405	TX	Hartley	717	10.9	8.8
211	TN	De Kalb	357	25.2	24.4	405	TX	Sherman	717	10.9	10.7
211	TN	Van Buren	357	25.2	33.5	405	TX	Hansford	841	10.9	7.8
215	TN	Putnam	326	25.6	29.3	405	TX	Ochiltree	842	10.9	16.6
215	TN	Overton	326	25.6	14.4	406	TX	Lubbock	685	7.0	4.8
215	TN	Pickett	326	25.6	24.8	406	TX	Hockley	685	7.0	6.8
215	TN	Jackson	390	25.6	20.7	406	TX	Dawson	685	7.0	18.3
215	TN	Clay	427	25.6	16.1	406	TX	Bailey	685	7.0	19.6
215	TN	White	451	25.6	39.1	406	TX	Lynn	685	7.0	4.0
217	TN	Hamblen	328	34.3	26.6	406	TX	Garza	685	7.0	8.9
217	TN	Jefferson	328	34.3	40.9	406	TX	Motley	685	7.0	39.1
217	TN	Grainger	328	34.3	52.6	406	TX	Borden	685	7.0	63.6
217	TN	Hancock	425	34.3	20.4	406	TX	King	685	7.0	33.3
223	TN	Cumberland	337	18.5	15.3	406	TX	Lamb	833	7.0	11.0
223	TN	Bledsoe	337	18.5	23.1	406	TX	Crosby	861	7.0	1.4
223	TN	Fentress	408	18.5	21.7	406	TX	Dickens	861	7.0	11.4
226	TN	Anderson	341	26.8	28.4	406	TX	Cochran	885	7.0	2.7
226	TN	Roane	341	26.8	19.7	408	TX	Harris	687	6.7	4.8
226	TN	Morgan	341	26.8	39.5	408	TX	Fort Bend	687	6.7	20.3
226	TN	Rhea	416	26.8	40.6	408	TX	Montgomery	687	6.7	5.9
226	TN	Campbell	440	26.8	21.9	408	TX	Liberty	687	6.7	17.3
231	TN	Sumner	351	25.1	30.0	408	TX	Waller	687	6.7	14.1
231	TN	Trousdale	351	25.1	9.4	408	TX	Austin	687	6.7	25.2
231	TN	Wilson	371	25.1	25.9	408	TX	San Jacinto	687	6.7	30.7
231	TN	Smith	371	25.1	15.7	408	TX	Chambers	882	6.7	28.9
231	TN	Macon	385	25.1	24.8	410	TX	Bexar	689	6.2	3.8
232	TN	Wayne	352	34.9	40.5	410	TX	Atascosa	689	6.2	3.2
232	TN	Perry	352	34.9	43.1	410	TX	Medina	689	6.2	4.1
232	TN	Lawrence	443	34.9	31.2	410	TX	Wilson	689	6.2	4.0
234	TN	Montgomery	361	19.1	19.0	410	TX	Kendall	689	6.2	20.3
234	TN	Stewart	361	19.1	19.3	410	TX	Zavala	689	6.2	58.2
234	TN	Houston	361	19.1	19.4	410	TX	Bandera	689	6.2	41.7
239	TN	Coffee	367	26.5	25.4	410	TX	McMullen	689	6.2	25.0
239	TN	Franklin	367	26.5	17.5	410	TX	Guadalupe	779	6.2	13.5
239	TN	Grundy	367	26.5	45.2	410	TX	Gonzales	779	6.2	28.2
239	TN	Moore	367	26.5	56.8	410	TX	Frio	832	6.2	7.2
245	TN	McNairy	377	40.1	46.1	410	TX	La Salle	832	6.2	31.5
245	TN	Hardin	377	40.1	34.6	413	TX	Jefferson	692	9.0	6.4
						413	TX	Orange	692	9.0	7.9
						413	TX	Hardin	692	9.0	7.6

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
413	TX	Jasper	692	9.0	23.0	437	TX	Brooks	716	6.9	8.8
413	TX	Newton	692	9.0	18.6	437	TX	Kenedy	716	6.9	26.7
413	TX	Tyler	863	9.0	14.4	438	TX	Lamar	718	14.3	7.5
415	TX	El Paso	694	4.5	4.2	438	OK	Choctaw	718	14.3	20.9
415	TX	Culberson	694	4.5	26.2	438	TX	Red River	718	14.3	17.7
415	TX	Hudspeth	694	4.5	23.3	438	TX	Delta	718	14.3	31.4
415	TX	Loving	694	4.5	50.0	441	TX	Smith	721	18.9	8.6
420	TX	Wichita	699	12.1	7.0	441	TX	Van Zandt	721	18.9	47.5
420	TX	Montague	699	12.1	20.2	441	TX	Wood	721	18.9	17.6
420	TX	Clay	699	12.1	8.0	441	TX	Henderson	819	18.9	22.0
420	TX	Archer	699	12.1	10.3	444	TX	Ector	725	16.3	13.5
420	TX	Knox	765	12.1	42.6	444	TX	Reeves	725	16.3	23.7
420	TX	Baylor	765	12.1	7.6	444	TX	Ward	725	16.3	15.3
420	TX	Young	785	12.1	14.3	444	TX	Crane	725	16.3	26.7
420	TX	Throckmorton	785	12.1	36.9	444	TX	Winkler	872	16.3	29.2
425	TX	Travis	704	10.3	6.2	447	TX	Nacogdoches	728	23.4	13.1
425	TX	Williamson	704	10.3	12.3	447	TX	Shelby	728	23.4	30.1
425	TX	Bastrop	704	10.3	12.3	447	TX	San Augustine	728	23.4	25.0
425	TX	Burnet	704	10.3	16.7	447	TX	Sabine	826	23.4	45.7
425	TX	Llano	704	10.3	23.7	449	TX	Angelina	730	26.7	12.3
425	TX	Lee	884	10.3	32.8	449	TX	Polk	730	26.7	44.0
426	TX	Tom Green	705	11.7	7.0	449	TX	Trinity	730	26.7	30.8
426	TX	McCulloch	705	11.7	16.2	449	TX	Walker	825	26.7	36.7
426	TX	Reagan	705	11.7	22.7	452	TX	Bell	733	12.8	6.9
426	TX	Sutton	705	11.7	51.2	452	TX	Coryell	733	12.8	20.6
426	TX	Crockett	705	11.7	17.6	452	TX	Milam	733	12.8	17.1
426	TX	Coke	705	11.7	9.7	452	TX	Lampasas	859	12.8	27.9
426	TX	Schleicher	705	11.7	4.6	453	TX	Dallas	734	10.5	9.4
426	TX	Concho	705	11.7	8.9	453	TX	Collin	734	10.5	10.5
426	TX	Menard	705	11.7	16.5	453	TX	Ellis	734	10.5	12.1
426	TX	Irion	705	11.7	4.7	453	TX	Hunt	734	10.5	8.3
426	TX	Runnels	851	11.7	19.9	453	TX	Kaufman	734	10.5	18.7
426	TX	Sterling	896	11.7	15.5	453	TX	Rockwall	734	10.5	6.6
427	TX	Hidalgo	706	14.0	14.6	453	TX	Rains	734	10.5	34.2
427	TX	Starr	706	14.0	6.6	453	TX	Hopkins	834	10.5	20.7
428	TX	Taylor	707	15.7	9.1	454	TX	Gregg	735	23.7	16.3
428	TX	Eastland	707	15.7	29.6	454	TX	Upshur	735	23.7	22.4
428	TX	Callahan	707	15.7	18.9	454	TX	Rusk	874	23.7	32.2
428	TX	Stephens	707	15.7	30.6	454	TX	Panola	892	23.7	36.7
428	TX	Shackelford	707	15.7	8.8	458	TX	Wilbarger	739	36.0	40.0
428	TX	Jones	769	15.7	8.2	458	TX	Hardeman	739	36.0	26.9
428	TX	Haskell	769	15.7	15.9	458	TX	Foard	739	36.0	43.9
428	TX	Stonewall	873	15.7	10.6	460	TX	Gray	742	27.9	24.0
428	TX	Kent	873	15.7	44.7	460	TX	Wheeler	742	27.9	28.4
433	TX	Victoria	712	10.5	6.0	460	TX	Hemphill	742	27.9	55.5
433	TX	De Witt	712	10.5	8.6	460	TX	Roberts	742	27.9	49.0
433	TX	Jackson	712	10.5	14.1	462	TX	McLennan	744	20.2	13.4
433	TX	Goliad	712	10.5	10.7	462	TX	Limestone	744	20.2	21.1
433	TX	Refugio	852	10.5	29.4	462	TX	Falls	744	20.2	45.2
433	TX	Lavaca	883	10.5	12.8	462	TX	Bosque	772	20.2	22.2
433	TX	Calhoun	897	10.5	11.1	462	TX	Hamilton	772	20.2	56.2
434	TX	Tarrant	713	7.9	7.5	462	TX	Hill	850	20.2	18.7
434	TX	Johnson	713	7.9	8.4	464	TX	Brazos	746	20.2	10.0
434	TX	Parker	713	7.9	10.3	464	TX	Washington	746	20.2	25.3
434	TX	Hood	713	7.9	12.4	464	TX	Robertson	746	20.2	26.2
434	TX	Somervell	713	7.9	9.0	464	TX	Burleson	746	20.2	19.5
436	TX	Grayson	715	13.5	8.6	464	TX	Grimes	871	20.2	33.3
436	OK	Bryan	715	13.5	9.6	465	TX	Titus	748	28.5	21.0
436	TX	Fannin	715	13.5	25.1	465	TX	Morris	748	28.5	44.7
436	OK	Atoka	828	13.5	30.0	465	TX	Franklin	748	28.5	22.4
437	TX	Nueces	716	6.9	4.9	465	TX	Camp	890	28.5	27.8
437	TX	San Patricio	716	6.9	8.3	468	TX	Brown	751	20.9	14.5
437	TX	Jim Wells	716	6.9	5.3	468	TX	Coleman	751	20.9	32.0
437	TX	Kleberg	716	6.9	7.0	468	TX	Mills	751	20.9	26.2
437	TX	Aransas	716	6.9	12.9	468	TX	San Saba	827	20.9	26.8
437	TX	Duval	716	6.9	5.5						
437	TX	Live Oak	716	6.9	52.8						

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800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
479	TX	Palo Pinto	764	32.4	27.7	524	TX	Collingsworth	907	49.1	49.1
479	TX	Jack	764	32.4	49.9	526	TX	Brewster	909	44.6	39.0
481	TX	Hale	767	38.8	38.4	526	TX	Presidio	909	44.6	50.0
481	TX	Floyd	767	38.8	39.7	526	TX	Jeff Davis	909	44.6	50.8
481	TX	Castro	878	38.8	39.8	531	TX	Dimmit	914	41.4	41.4
485	TX	Cass	776	39.9	45.0	532	TX	Galveston	915	28.0	28.0
485	TX	Marion	776	39.9	34.9	536	TX	Uvalde	919	36.0	36.0
485	TX	Harrison	840	39.9	36.2	538	TX	Webb	921	13.5	9.2
489	TX	Navarro	781	22.0	18.3	538	TX	Zapata	921	13.5	26.3
489	TX	Freestone	781	22.0	31.9	538	TX	Jim Hogg	921	13.5	49.7
490	TX	Fayette	783	39.3	48.3	703	UT	Utah	1216	13.9	12.5
490	TX	Colorado	783	39.3	28.7	703	UT	Sanpete	1216	13.9	15.2
491	TX	Deaf Smith	784	42.7	31.0	703	UT	Sevier	1216	13.9	18.9
491	TX	Parmer	784	42.7	68.6	703	UT	Juab	1216	13.9	9.2
492	TX	Midland	786	21.3	14.2	703	UT	Wayne	1216	13.9	29.5
492	TX	Martin	786	21.3	44.0	703	UT	Millard	1370	13.9	19.0
492	TX	Upton	786	21.3	37.1	708	UT	Salt Lake	1221	7.2	6.5
492	TX	Pecos	891	21.3	36.4	708	UT	Tooele	1221	7.2	5.6
492	TX	Terrell	891	21.3	72.5	708	UT	Summit	1221	7.2	27.4
495	TX	Denton	790	23.8	22.2	708	UT	Uintah	1259	7.2	9.6
495	TX	Cooke	790	23.8	20.7	708	UT	Duchesne	1259	7.2	11.0
495	TX	Wise	881	23.8	32.6	708	UT	Wasatch	1325	7.2	17.5
501	TX	Leon	797	51.0	59.3	715	UT	Cache	1228	16.3	13.5
501	TX	Madison	797	51.0	38.0	715	ID	Franklin	1228	16.3	19.3
503	TX	Nolan	800	34.1	30.6	715	ID	Bear Lake	1228	16.3	29.3
503	TX	Mitchell	800	34.1	35.7	744	UT	Davis	1260	13.8	21.0
503	TX	Fisher	888	34.1	41.7	744	UT	Weber	1260	13.8	7.7
505	TX	Matagorda	803	34.8	24.3	744	UT	Morgan	1260	13.8	3.3
505	TX	Wharton	803	34.8	21.9	744	UT	Rich	1260	13.8	57.5
505	TX	Brazoria	822	34.8	42.7	744	UT	Box Elder	1317	13.8	21.9
506	TX	Kerr	804	25.8	19.5	755	UT	Iron	1272	30.8	34.1
506	TX	Gillespie	804	25.8	18.0	755	UT	Beaver	1272	30.8	26.2
506	TX	Blanco	804	25.8	64.6	809	UT	Carbon	1410	22.7	20.3
506	TX	Mason	804	25.8	42.2	809	UT	Emery	1410	22.7	30.5
506	TX	Real	804	25.8	58.3	5	VA	Newport News	6	7.5	5.3
506	TX	Edwards	804	25.8	45.1	5	VA	Hampton City	6	7.5	7.0
506	TX	Kimble	857	25.8	21.5	5	VA	York	6	7.5	4.9
507	TX	Erath	805	29.1	31.3	5	VA	Gloucester	6	7.5	9.6
507	TX	Comanche	805	29.1	26.4	5	VA	Mathews	6	7.5	11.9
509	TX	Anderson	808	24.6	20.9	5	VA	James City	214	7.5	13.0
509	TX	Houston	808	24.6	31.1	6	VA	Virginia Beach	7	8.4	5.0
509	TX	Cherokee	893	24.6	24.4	6	VA	Norfolk/Portsmouth	7	8.4	3.5
510	TX	Hays	809	37.3	42.3	6	VA	Chesapeake City	7	8.4	3.5
510	TX	Caldwell	809	37.3	31.5	6	NC	Currituck	7	8.4	52.5
512	TX	Childress	829	45.5	35.4	6	VA	Nansemond	135	8.4	5.4
512	TX	Cottle	829	45.5	58.3	6	VA	Southampton	135	8.4	12.4
512	TX	Hall	830	45.5	53.1	6	VA	Isle of Wight	135	8.4	100.0
513	TX	Bee	869	47.4	41.1	14	VA	Roanoke	16	6.2	4.1
513	TX	Karnes	870	47.4	56.7	14	VA	Franklin	16	6.2	6.8
514	TX	Terry	875	49.9	49.9	14	VA	Botetourt	16	6.2	12.6
514	TX	Yoakum	876	49.9	49.7	14	VA	Floyd	16	6.2	35.0
516	TX	Maverick	898	30.7	38.8	14	VA	Craig	16	6.2	8.6
516	TX	Val Verde	899	30.7	22.0	14	VA	Campbell	82	6.2	4.8
516	TX	Kinney	899	30.7	44.7	14	VA	Bedford	82	6.2	6.4
517	TX	Comal	900	30.4	30.4	14	VA	Amherst	82	6.2	6.1
518	TX	Howard	901	20.1	19.1	14	VA	Appomattox	82	6.2	19.3
518	TX	Glasscock	901	20.1	70.8	25	VA	Frederick	28	13.5	6.3
519	TX	Scurry	902	41.7	41.7	25	VA	Shenandoah	28	13.5	19.9
520	TX	Cameron	903	9.8	9.5	25	WV	Hampshire	28	13.5	36.4
520	TX	Willacy	903	9.8	14.1	25	VA	Clarke	28	13.5	5.3
						25	WV	Berkeley	106	13.5	8.4
						25	WV	Jefferson	106	13.5	13.3
						25	WV	Morgan	188	13.5	25.2
						25	VA	Warren	236	13.5	10.4

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
33	VA	Henrico	36	10.5	3.4	135	VA	Spotsylvania	237	19.8	11.1
33	VA	Chesterfield	36	10.5	33.9	135	VA	Stafford	237	19.8	22.0
33	VA	Hanover	36	10.5	4.5	135	VA	Caroline	237	19.8	49.0
33	VA	Westmoreland	36	10.5	47.3	135	VA	King George	237	19.8	15.9
33	VA	Nottoway	36	10.5	12.5	137	VA	Accomack	239	24.0	28.3
33	VA	Powhatan	36	10.5	6.6	137	VA	Northampton	239	24.0	15.0
33	VA	Goochland	36	10.5	4.3	49	VT	Chittenden	53	7.0	5.7
33	VA	New Kent	36	10.5	24.8	49	VT	Franklin	53	7.0	6.5
33	VA	King William	36	10.5	35.1	49	VT	Addison	53	7.0	11.5
33	VA	Essex	36	10.5	9.0	49	VT	Grand Isle	53	7.0	9.6
33	VA	Amelia	36	10.5	5.0	103	VT	Caledonia	126	23.4	30.1
33	VA	Richmond	36	10.5	5.6	103	VT	Lamoille	126	23.4	26.4
33	VA	Charles City	36	10.5	21.2	103	VT	Orleans	192	23.4	14.7
33	VA	King and Queen	36	10.5	33.5	122	VT	Rutland	224	11.5	11.5
33	VA	Lancaster	158	10.5	9.5	698	WA	Spokane	1211	6.2	5.2
33	VA	Northumberland	158	10.5	7.2	698	WA	Lincoln	1211	6.2	6.5
33	VA	Middlesex	158	10.5	46.8	698	WA	Pend Oreille	1211	6.2	9.8
33	VA	Prince Edward	205	10.5	12.1	698	WA	Stevens	1274	6.2	6.2
33	VA	Charlotte	205	10.5	47.0	698	WA	Ferry	1274	6.2	8.9
33	VA	Cumberland	205	10.5	10.0	698	WA	Adams	1382	6.2	24.7
55	VA	Wise	61	26.4	20.5	702	WA	Benton	1215	16.6	16.6
55	VA	Dickenson	61	26.4	31.9	702	WA	Franklin	1215	16.6	16.7
55	VA	Lee	220	26.4	35.1	736	WA	King	1250	5.6	5.2
63	VA	Rockingham	70	16.8	10.9	736	WA	Snohomish	1250	5.6	4.7
63	VA	Page	70	16.8	20.2	736	WA	Skagit	1250	5.6	6.1
63	WV	Pendleton	70	16.8	48.6	736	WA	Island	1250	5.6	8.3
69	VA	Fairfax	76	16.7	18.5	736	WA	San Juan	1250	5.6	29.2
69	VA	Arlington	76	16.7	15.5	736	WA	San Juan	1250	5.6	29.2
69	VA	Alexandria City	76	16.7	13.5	736	WA	Kitsap	1282	5.6	7.8
69	VA	Loudoun	211	16.7	21.3	739	WA	Yakima	1254	8.2	7.4
70	VA	Montgomery	77	16.6	18.8	739	WA	Kittitas	1254	8.2	15.8
70	VA	Giles	77	16.6	20.6	747	WA	Grant	1263	16.1	28.3
70	VA	Pulaski	130	16.6	9.1	747	WA	Chelan	1263	16.1	9.4
70	VA	Wythe	130	16.6	19.6	747	WA	Douglas	1263	16.1	10.1
71	VA	Halifax	79	24.8	19.0	747	WA	Okanogan	1324	16.1	15.4
71	VA	Mecklenburg	79	24.8	23.0	758	WA	Thurston	1276	17.9	13.1
71	VA	Lunenburg	79	24.8	52.6	758	WA	Lewis	1276	17.9	15.3
73	VA	Carroll	81	28.2	43.4	758	WA	Mason	1276	17.9	33.2
73	VA	Grayson	81	28.2	19.7	758	WA	Pacific	1319	17.9	33.2
73	NC	Alleghany	81	28.2	25.0	758	WA	Grays Harbor	1352	17.9	13.6
77	VA	Dinwiddie	87	25.8	18.2	784	ID	Latah	1371	34.2	25.1
77	VA	Prince George	87	25.8	17.6	784	WA	Whitman	1372	34.2	42.1
77	VA	Sussex	87	25.8	63.5	785	WA	Clallam	1374	22.1	17.7
77	VA	Surry	87	25.8	57.7	785	WA	Jefferson	1375	22.1	35.1
79	VA	Henry	90	21.2	19.0	794	WA	Pierce	1395	11.2	11.2
79	VA	Patrick	90	21.2	28.1	815	WA	Whatcom	1416	9.2	9.2
97	VA	Augusta	117	16.8	14.6	278	WI	Brown	476	7.7	5.2
97	VA	Rockbridge	117	16.8	21.9	278	WI	Oconto	476	7.7	17.2
97	VA	Highland	117	16.8	36.1	278	WI	Kewaunee	476	7.7	6.7
99	VA	Albemarle	121	21.9	6.3	278	WI	Door	609	7.7	8.9
99	VA	Culpeper	121	21.9	17.3	280	WI	Milwaukee	478	3.8	3.2
99	VA	Orange	121	21.9	24.2	280	WI	Waukesha	478	3.8	5.5
99	VA	Louisa	121	21.9	39.0	280	WI	Washington	478	3.8	6.7
99	VA	Buckingham	121	21.9	63.5	280	WI	Ozaukee	478	3.8	6.6
99	VA	Nelson	121	21.9	50.0	282	WI	Wood	480	10.3	4.8
99	VA	Fluvanna	121	21.9	21.5	282	WI	Clark	480	10.3	20.0
99	VA	Madison	121	21.9	8.1	282	WI	Taylor	480	10.3	12.2
99	VA	Greene	121	21.9	7.1	282	WI	Marathon	588	10.3	7.8
99	VA	Rappahannock	121	21.9	62.5	282	WI	Lincoln	588	10.3	14.7
109	VA	Prince Willia	136	22.7	23.5	284	WI	Onelda	482	26.0	16.1
109	VA	Fauquier	136	22.7	21.3	284	WI	Vilas	482	26.0	19.3
130	VA	Brunswick	232	36.2	63.0	284	WI	Forest	482	26.0	39.2
130	VA	Greensville	232	36.2	18.5	284	MI	Gogebic	659	26.0	33.2
132	VA	Pittsylvania	234	20.8	17.4	284	WI	Iron	659	26.0	40.7
132	NC	Caswell	234	20.8	48.4						

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area—Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
284	MI	Ontonagon	660	26.0	32.2	7	WV	Nicholas	134	11.1	27.6
290	WI	La Crosse	487	10.3	4.7	7	WV	Webster	134	11.1	27.3
290	WI	Monroe	487	10.3	7.6	30	VA	Alleghany	33	22.9	11.5
290	WI	Vernon	487	10.3	6.5	30	VA	Bath	33	22.9	21.2
290	MN	Houston	487	10.3	14.2	30	WV	Greenbrier	154	22.9	22.9
290	IA	Allamakee	487	10.3	14.7	30	WV	Monroe	154	22.9	53.2
290	WI	Trempealeau	629	10.3	25.3	31	WV	Monongalia	34	14.0	7.2
298	WI	Eau Claire	495	14.4	8.2	31	WV	Marion	34	14.0	9.3
298	WI	Chippewa	495	14.4	9.5	31	WV	Preston	34	14.0	24.4
298	WI	Dunn	495	14.4	14.0	31	WV	Taylor	197	14.0	34.7
298	WI	Buffalo	495	14.4	52.7	34	WV	Wood	37	10.3	4.6
298	WI	Pepin	637	14.4	25.0	34	OH	Washington	37	10.3	10.8
301	WI	Dane	498	13.3	6.3	34	WV	Ritchie	37	10.3	13.9
301	WI	Columbia	498	13.3	12.5	34	WV	Pleasants	37	10.3	9.6
301	WI	Sauk	498	13.3	4.7	34	WV	Wirt	37	10.3	5.0
301	WI	Iowa	498	13.3	5.7	34	WV	Roane	118	10.3	24.9
301	WI	Marquette	498	13.3	45.1	34	WV	Calhoun	118	10.3	12.9
301	WI	Grant	567	13.3	36.2	34	WV	Jackson	156	10.3	22.4
301	WI	Richland	567	13.3	18.3	39	WV	Mercer	42	17.1	10.8
306	WI	Fond Du Lac	503	16.4	12.8	39	VA	Tazewell	42	17.1	11.1
306	WI	Dodge	503	16.4	29.0	39	WV	McDowell	42	17.1	27.9
306	WI	Green Lake	503	16.4	11.8	39	VA	Bland	42	17.1	58.0
306	WI	Winnebago	565	16.4	10.8	39	VA	Buchanan	173	17.1	21.3
306	WI	Waushara	565	16.4	29.1	46	WV	Cabell	50	14.5	9.4
314	WI	Washburn	511	36.4	31.9	46	OH	Lawrence	50	14.5	8.5
314	WI	Burnett	511	36.4	43.1	46	WV	Wayne	50	14.5	5.7
315	WI	Marinette	513	21.7	25.6	46	WV	Lincoln	50	14.5	44.8
315	MI	Dickinson	513	21.7	14.0	46	KY	Boyd	102	14.5	5.5
315	MI	Menominee	513	21.7	26.7	46	KY	Greenup	102	14.5	24.3
315	WI	Florence	513	21.7	18.3	46	KY	Carter	102	14.5	40.5
315	MI	Iron	673	21.7	20.6	46	KY	Lawrence	102	14.5	20.8
						46	KY	Martin	102	14.5	47.4
326	WI	Green	523	17.5	19.3	50	WV	Randolph	54	19.3	11.1
326	WI	Lafayette	523	17.5	36.1	50	WV	Barbour	54	19.3	19.7
326	WI	Rock	665	17.5	14.9	50	WV	Tucker	54	19.3	31.1
344	WI	Outagamie	540	18.2	17.2	50	WV	Pocahontas	164	19.3	31.5
344	WI	Waupaca	540	18.2	19.7	60	WV	Raleigh	66	18.1	11.1
355	WI	Manitowoc	550	11.7	8.7	60	WV	Fayette	66	18.1	18.5
355	WI	Calumet	550	11.7	35.3	60	WV	Wyoming	66	18.1	35.5
355	WI	Sheboygan	671	11.7	9.2	60	WV	Summers	194	18.1	27.7
357	WI	Ashland	553	28.8	12.7	92	WV	Harrison	109	18.9	13.5
357	WI	Sawyer	553	28.8	44.4	92	WV	Lewis	109	18.9	12.7
357	WI	Bayfield	553	28.8	21.0	92	WV	Braxton	109	18.9	24.4
357	WI	Price	608	28.8	46.8	92	WV	Gilmer	109	18.9	57.8
370	WI	St. Croix	573	36.1	29.9	92	WV	Doddridge	109	18.9	29.6
370	WI	Pierce	573	36.1	45.7	92	WV	Upshur	196	18.9	19.9
370	MN	Goodhue	1167	36.1	36.3	586	SD	Lawrence	972	25.0	22.4
374	WI	Barron	578	21.9	19.9	586	WY	Crook	972	25.0	38.0
374	WI	Rusk	578	21.9	29.3	586	WY	Campbell	1348	25.0	24.1
379	WI	Shawano	583	34.7	41.9	726	WY	Natrona	1239	10.3	10.0
379	WI	Langlade	583	34.7	24.2	726	WY	Converse	1239	10.3	12.1
379	WI	Menominee	583	34.7	24.4	741	NE	Cheyenne	1117	16.3	27.2
382	WI	Racine	587	14.0	13.4	741	NE	Deuel	1117	16.3	66.2
382	WI	Kenosha	587	14.0	14.9	741	WY	Laramie	1256	16.3	9.8
						741	NE	Kimball	1256	16.3	18.7
387	WI	Jefferson	596	30.1	26.5	749	WY	Park	1266	24.8	21.5
387	WI	Walworth	597	30.1	34.0	749	WY	Big Horn	1266	24.8	30.0
391	WI	Adams	652	45.2	41.5	770	WY	Sheridan	1291	18.6	19.5
391	WI	Juneau	653	45.2	46.8	770	WY	Johnson	1291	18.6	15.9
399	WI	Jackson	678	36.5	36.5	771	WY	Albany	1295	19.3	16.5
400	WI	Portage	679	24.3	24.3	771	CO	Jackson	1295	19.3	46.4
						771	WY	Carbon	1296	19.3	20.9
7	WV	Kanawha	8	11.1	6.9	775	WY	Lincoln	1314	40.6	43.6
7	WV	Putnam	8	11.1	12.7	775	WY	Teton	1315	40.6	31.1
7	WV	Boone	8	11.1	9.8	775	WY	Sublette	1315	40.6	53.5
7	WV	Clay	8	11.1	38.7						

Table II. List of health service areas for 800-area and 1400-area unlinked solutions and percent of routine Medicare stays by residents outside 800-unlinked area – Con.

800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	1400-unlinked area no.	Percent of routine stays outside 800-unlinked area by residents of—	
				Area	County					Area	County
777	WY	Hot Springs	1322	16.9	18.9	797	WY	Platte	1398	27.5	27.5
777	WY	Washakie	1323	16.9	24.9	799	WY	Sweetwater	1400	20.5	20.1
777	WY	Fremont	1351	16.9	12.9	799	UT	Daggett.	1400	20.5	45.5
792	WY	Uinta	1393	30.4	30.4	804	WY	Weston.	1405	34.0	34.0

Appendix IV

Obstetric service areas

Obstetric service areas were defined using the same methodology as for the health service areas except that natality data for 1984-86 were used to calculate the distance matrix that was input to the cluster analysis. Since the 800-unlinked solution was the preferred solution for the health service areas, that solution is presented for the obstetric service areas.

As for the health service areas, modifications were made to the initial solution to ensure contiguous obstetric service areas. Two zero-production counties (Grant, Nebraska and Grainger, Tennessee) were not contiguous to the cluster where the greatest number of their residents' births occurred. These two counties were reassigned to the cluster where the second largest number of births oc-

curred. Seven other clusters were found that contained noncontiguous counties. Solutions for two of these clusters were not changed as the noncontiguous counties were separated from their clusters only by water (Marin, California; Island and San Juan, Washington). Four noncontiguous counties were reassigned to contiguous obstetric service areas based on examination of their travel patterns (Rio Blanco, Colorado; Ontonagon, Michigan; Clatsop, Oregon; and Jefferson, West Virginia).

The obstetric service areas for the 800-unlinked solution are presented in table III. Appendix tables IV and V present information on travel patterns outside the obstetric service areas comparable to that presented in text tables E, F, and H for health service areas.

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of--		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of--	
			Area	County				Area	County
140	AL	Jefferson	2.7	0.5	257	AL	Cullman	21.8	21.8
140	AL	Shelby	2.7	1.7	258	AL	Jackson	30.8	30.8
140	AL	St. Clair	2.7	15.3	409	AR	Sebastian	6.9	2.1
140	AL	Blount	2.7	17.4	409	OK	Le Flore	6.9	13.5
140	AL	Chilton	2.7	21.5	409	AR	Crawford	6.9	2.9
142	AL	Montgomery	4.9	1.2	409	AR	Logan	6.9	13.2
142	AL	Elmore	4.9	8.4	409	AR	Franklin	6.9	12.5
142	AL	Covington	4.9	13.1	409	OK	Haskell	6.9	28.3
142	AL	Autauga	4.9	12.1	409	AR	Scott	6.9	3.2
142	AL	Butler	4.9	4.1	413	AR	Pulaski	4.1	0.9
142	AL	Crenshaw	4.9	9.7	413	AR	Saline	4.1	3.0
142	AL	Lowndes	4.9	13.9	413	AR	Lonoke	4.1	5.7
165	AL	Tuscaloosa	9.0	4.7	413	AR	Arkansas	4.1	7.3
165	AL	Pickens	9.0	15.4	413	AR	Grant	4.1	29.1
165	AL	Bibb	9.0	30.5	413	AR	Monroe	4.1	29.6
165	AL	Greene	9.0	15.1	413	AR	Prairie	4.1	23.3
180	AL	Houston	8.4	3.1	413	AR	Perry	4.1	57.3
180	AL	Dale	8.4	3.7	427	AR	Pope	17.2	15.5
180	AL	Coffee	8.4	12.8	427	AR	Johnson	17.2	19.0
180	AL	Geneva	8.4	5.8	427	AR	Yell	17.2	19.7
180	FL	Holmes	8.4	54.4	429	AR	Baxter	11.7	12.2
180	AL	Henry	8.4	9.8	429	AR	Boone	11.7	6.4
181	AL	Dallas	15.8	4.3	429	AR	Carroll	11.7	16.4
181	AL	Clarke	15.8	27.3	429	AR	Marion	11.7	5.4
181	AL	Marengo	15.8	11.1	429	AR	Searcy	11.7	33.2
181	AL	Hale	15.8	55.2	429	AR	Newton	11.7	6.5
181	AL	Perry	15.8	11.3	433	AR	Craighead	15.6	7.9
181	AL	Wilcox	15.8	7.1	433	AR	Greene	15.6	4.6
193	AL	Lauderdale	8.6	3.5	433	AR	Poinsett	15.6	41.9
193	AL	Colbert	8.6	3.6	433	AR	Clay	15.6	29.5
193	TN	Lawrence	8.6	17.7	433	AR	Lawrence	15.6	16.3
193	AL	Franklin	8.6	14.8	433	AR	Randolph	15.6	8.9
193	TN	Wayne	8.6	20.4	438	AR	Phillips	15.4	10.6
198	AL	Madison	7.4	2.1	438	AR	Lee	15.4	27.3
198	AL	Marshall	7.4	20.8	441	AR	Hempstead	27.5	17.2
198	TN	Lincoln	7.4	20.8	441	AR	Howard	27.5	44.4
204	AL	Mobile	5.9	0.5	441	AR	Nevada	27.5	23.6
204	MS	Jackson	5.9	19.9	475	AR	Union	12.8	4.0
204	AL	Baldwin	5.9	7.0	475	AR	Ouachita	12.8	9.0
204	AL	Washington	5.9	28.0	475	AR	Dallas	12.8	66.4
204	MS	George	5.9	11.6	475	AR	Calhoun	12.8	22.8
205	AL	Escambia	33.0	38.5	487	AR	White	28.8	18.1
205	AL	Monroe	33.0	24.2	487	AR	Cleburne	28.8	38.9
205	AL	Conecuh	33.0	35.4	487	AR	Woodruff	28.8	68.4
215	AL	Walker	35.0	33.0	493	AR	Jefferson	18.9	19.5
215	AL	Winston	35.0	41.1	493	AR	Desha	18.9	22.6
219	AL	Etowah	13.8	6.8	493	AR	Drew	18.9	12.3
219	AL	De Kalb	13.8	23.0	493	AR	Lincoln	18.9	23.0
219	AL	Cherokee	13.8	30.5	493	AR	Bradley	18.9	9.6
226	AL	Morgan	15.5	13.7	493	AR	Cleveland	18.9	22.3
226	AL	Limestone	15.5	18.3	496	AR	Faulkner	47.6	53.6
226	AL	Lawrence	15.5	17.1	496	AR	Conway	47.6	36.4
227	AL	Lee	17.3	17.1	496	AR	Van Buren	47.6	36.9
227	AL	Chambers	17.3	14.5	497	AR	Garland	25.7	17.8
227	AL	Tallapoosa	17.3	18.4	497	AR	Hot Spring	25.7	37.1
227	AL	Macon	17.3	15.3	497	AR	Clark	25.7	29.6
227	AL	Bullock	17.3	26.3	497	AR	Pike	25.7	46.1
241	AL	Calhoun	13.0	6.5	497	AR	Montgomery	25.7	20.6
241	AL	Talladega	13.0	15.8	505	AR	Crittenden	32.1	42.7
241	AL	Clay	13.0	8.5	505	AR	St. Francis	32.1	18.4
241	AL	Cleburne	13.0	31.0	505	AR	Cross	32.1	25.2
241	AL	Coosa	13.0	52.2	510	AR	Columbia	35.7	31.3
248	AL	Pike	35.2	29.7	510	AR	Lafayette	35.7	47.5
248	AL	Barbour	35.2	39.2	515	AR	Ashley	38.7	47.0
248	GA	Quitman	35.2	52.6					

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86—Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
515	AR	Chicot	38.7	27.8	764	CA	Yolo	21.9	38.9
561	AR	Washington	9.1	2.1	764	CA	Sutter	21.9	7.1
561	AR	Benton	9.1	2.9	764	CA	Yuba	21.9	8.8
561	OK	Delaware	9.1	43.7	764	CA	Colusa	21.9	12.2
561	MO	Mc Donald	9.1	36.7	773	CA	San Bernardino	14.2	14.6
561	AR	Madison	9.1	10.7	773	CA	Riverside	14.2	13.7
596	AR	Independence	19.6	9.8	776	CA	Los Angeles	1.1	1.2
596	AR	Jackson	19.6	10.6	776	CA	Orange	1.1	0.9
596	AR	Sharp	19.6	55.8	776	CA	Ventura	1.1	0.8
596	AR	Izard	19.6	27.2	789	CA	Butte	7.8	7.6
596	AR	Stone	19.6	22.1	789	CA	Tehama	7.8	10.8
647	AR	Mississippi	12.9	12.4	789	CA	Glenn	7.8	4.3
647	MO	Pemiscot	12.9	14.4	791	CA	Santa Barbara	2.3	2.5
714	AZ	Graham	19.6	23.5	791	CA	San Luis Obis.	2.3	1.9
714	AZ	Greenlee	19.6	8.3	794	CA	Lassen	27.2	29.5
727	AZ	Pima	1.1	1.0	794	CA	Plumas	27.2	24.0
727	AZ	Santa Cruz	1.1	2.8	800	CA	Humboldt	1.8	1.8
728	AZ	Maricopa	1.2	0.5	801	CA	Inyo	19.0	10.8
728	AZ	Pinal	1.2	11.1	801	CA	Mono	19.0	26.5
728	AZ	Gila	1.2	6.1	801	NV	Esmeralda	19.0	52.6
762	AZ	Coconino	10.6	9.5	810	CA	Kern	5.9	5.9
762	UT	Kane	10.6	25.5	811	CA	Tulare	10.1	10.1
762	UT	Garfield	10.6	14.8	815	CA	Monterey	5.7	5.7
783	AZ	Navajo	46.7	47.2	818	CA	Imperial	6.3	6.3
783	UT	San Juan	46.7	44.1	819	CA	San Diego	0.9	0.9
797	AZ	Yuma	14.4	10.2	701	CO	Denver	1.3	0.5
797	AZ	Mohave	14.4	22.7	701	CO	Jefferson	1.3	1.6
803	AZ	Cochise	13.3	13.3	701	CO	Arapahoe	1.3	0.7
824	AZ	Yavapai	10.5	10.5	701	CO	Adams	1.3	1.9
698	CA	Sacramento	2.9	2.5	701	CO	Douglas	1.3	2.2
698	CA	Placer	2.9	4.4	701	CO	Elbert	1.3	19.8
698	CA	Nevada	2.9	7.5	701	CO	Clear Creek	1.3	1.2
720	CA	Fresno	2.5	1.5	701	CO	Park	1.3	19.5
720	CA	Kings	2.5	4.2	701	CO	Gilpin	1.3	29.6
720	CA	Madera	2.5	8.2	707	CO	Alamosa	3.9	2.6
725	CA	San Francisco	11.1	2.2	707	CO	Rio Grande	3.9	2.8
725	CA	San Mateo	11.1	21.7	707	CO	Conejos	3.9	2.8
725	CA	Marin	11.1	6.7	707	CO	Saguache	3.9	13.4
730	CA	El Dorado	19.6	24.5	707	CO	Costilla	3.9	4.0
730	NV	Ormsby	19.6	12.5	707	CO	Mineral	3.9	5.0
730	NV	Douglas	19.6	11.4	708	CO	Pueblo	3.3	2.9
730	CA	Alpine	19.6	25.5	708	CO	Huerfano	3.3	10.9
734	CA	Sonoma	9.4	8.8	732	CO	Kit Carson	18.0	12.8
734	CA	Mendocino	9.4	4.0	732	CO	Lincoln	18.0	20.9
734	CA	Lake	9.4	24.3	732	CO	Cheyenne	18.0	25.7
736	CA	Stanislaus	3.4	2.8	758	CO	Otero	7.9	6.8
736	CA	Merced	3.4	3.4	758	CO	Powers	7.9	9.0
736	CA	Mariposa	3.4	29.6	758	CO	Bent	7.9	2.4
737	CA	San Joaquin	10.5	10.2	758	CO	Crowley	7.9	14.5
737	CA	Tuolumne	10.5	7.1	758	CO	Kiowa	7.9	12.8
737	CA	Calaveras	10.5	8.1	767	CO	Garfield	16.0	8.9
737	CA	Amador	10.5	30.3	767	CO	Eagle	16.0	13.5
746	CA	Shasta	4.3	3.5	767	CO	Summit	16.0	41.0
746	CA	Trinity	4.3	13.7	767	CO	Pitkin	16.0	6.1
747	CA	Alameda	7.8	8.2	772	CO	Weld	25.2	28.0
747	CA	Contra Costa	7.8	7.1	772	CO	Morgan	25.2	7.6
749	CA	Solano	17.5	20.1	772	CO	Washington	25.2	37.7
749	CA	Napa	17.5	7.7	777	CO	Logan	12.3	10.5
756	CA	Santa Clara	3.8	4.0	777	CO	Phillips	12.3	8.1
756	CA	Santa Cruz	3.8	2.0	777	CO	Sedgwick	12.3	33.9
756	CA	San Benito	3.8	6.2	778	CO	Mesa	1.3	1.3

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86—Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
784	CO	El Paso	2.8	2.0	166	FL	Palm Beach	7.6	5.5
784	CO	Fremont	2.8	13.0	166	FL	St. Lucie	7.6	9.9
784	CO	Teller	2.8	2.8	166	FL	Marlin	7.6	3.0
784	CO	Custer	2.8	45.6	166	FL	Okeechobee	7.6	11.6
785	CO	Montrose	13.2	12.5	166	FL	Hendry	7.6	42.9
785	CO	Delta	13.2	13.3	166	FL	Glades	7.6	32.7
785	CO	San Miguel	13.2	19.4	182	FL	Polk	6.4	5.7
785	CO	Ouray	13.2	7.0	182	FL	Highlands	6.4	4.0
787	CO	Routt	8.7	5.0	182	FL	De Soto	6.4	21.9
787	CO	Moffat	8.7	12.3	182	FL	Hardee	6.4	6.6
793	CO	Yuma	39.9	41.2	214	FL	Orange	1.8	0.8
793	NE	Dundy	39.9	35.0	214	FL	Seminole	1.8	0.9
796	CO	Chaffee	9.9	6.1	214	FL	Lake	1.8	9.7
796	CO	Lake	9.9	15.6	214	FL	Osceola	1.8	1.7
812	CO	Grand	31.1	31.1	223	FL	Pinellas	1.5	0.5
813	CO	Boulder	16.8	16.8	223	FL	Hillsborough	1.5	1.8
814	CO	Larimer	6.3	6.3	223	FL	Pasco	1.5	2.2
832	CO	Gunnison	11.7	10.3	223	FL	Hernando	1.5	8.4
832	CO	Hinsdale	11.7	38.1	228	FL	Sarasota	4.9	2.7
834	CO	Rio Blanco	35.7	35.7	228	FL	Manatee	4.9	4.2
7	CT	Hartford	5.7	4.2	228	FL	Charlotte	4.9	15.1
7	CT	Tolland	5.7	4.4	234	FL	Dade	2.0	2.0
7	CT	Windham	5.7	19.2	234	FL	Monroe	2.0	2.0
76	CT	Fairfield	6.5	3.8	235	FL	Jackson	27.2	29.5
76	CT	New Haven	6.5	3.8	235	FL	Calhoun	27.2	18.7
76	CT	Litchfield	6.5	18.4	238	FL	Lee	2.2	2.1
76	CT	Middlesex	6.5	26.2	238	FL	Collier	2.2	2.6
87	DE	New Castle	11.5	6.8	244	FL	Marion	28.7	28.0
87	MD	Cecil	11.5	37.9	244	FL	Citrus	28.7	13.9
97	DE	Sussex	4.7	4.7	244	FL	Sumter	28.7	63.4
97	DE	Kent	4.7	6.3	247	FL	St. Johns	35.9	32.5
97	MD	Wicomico	4.7	3.2	247	FL	Putnam	35.9	39.6
97	MD	Worcester	4.7	4.2	253	FL	Brevard	4.0	4.0
97	MD	Somerset	4.7	2.6	254	FL	Indian River	9.2	9.2
139	FL	Bay	7.9	3.2	262	FL	Volusia	11.5	11.2
139	FL	Washington	7.9	40.1	262	FL	Flagler	11.5	18.0
139	FL	Gulf	7.9	3.5	263	FL	Broward	6.8	6.8
139	FL	Franklin	7.9	32.2	137	GA	Muscogee	5.2	1.7
143	FL	Alachua	4.0	1.1	137	AL	Russell	5.2	4.8
143	FL	Columbia	4.0	3.5	137	GA	Chattahoochee	5.2	1.6
143	FL	Suwannee	4.0	14.7	137	GA	Harris	5.2	17.4
143	FL	Levy	4.0	9.4	137	GA	Randolph	5.2	33.3
143	FL	Bradford	4.0	12.7	137	GA	Talbot	5.2	18.6
143	FL	Union	4.0	6.4	137	GA	Stewart	5.2	14.7
143	FL	Dixie	4.0	1.5	137	GA	Marion	5.2	46.8
143	FL	Gilchrist	4.0	0.0	137	GA	Clay	5.2	42.2
145	FL	Duval	1.6	0.9	138	GA	Richmond	4.1	0.8
145	FL	Clay	1.6	5.6	138	GA	Columbia	4.1	0.7
145	FL	Nassau	1.6	1.4	138	GA	Burke	4.1	2.5
145	FL	Baker	1.6	10.4	138	GA	Mc Duffie	4.1	1.5
156	FL	Escambia	2.5	1.7	138	GA	Washington	4.1	26.5
156	FL	Okaloosa	2.5	2.1	138	GA	Jefferson	4.1	3.5
156	FL	Santa Rosa	2.5	1.0	138	GA	Screven	4.1	34.5
156	FL	Walton	2.5	22.5	138	GA	Jenkins	4.1	13.9
161	FL	Leon	7.2	1.6	138	GA	Lincoln	4.1	5.9
161	FL	Gadsden	7.2	3.7	138	GA	Warren	4.1	5.7
161	FL	Taylor	7.2	11.3	138	GA	Glascok	4.1	7.0
161	FL	Madison	7.2	37.0	138	GA	Taliaferro	4.1	32.1
161	FL	Wakulla	7.2	2.4	141	GA	Floyd	15.7	3.5
161	FL	Jefferson	7.2	16.2	141	GA	Bartow	15.7	34.3
161	FL	Lafayette	7.2	75.3	141	GA	Polk	15.7	5.1
161	FL	Liberty	7.2	51.3	141	GA	Chattooga	15.7	27.1
					147	GA	Lowndes	9.9	2.5

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
147	GA	Cook	9.9	20.5	190	GA	Pulaski	22.4	38.7
147	GA	Berrien	9.9	34.8	195	GA	Clarke	21.0	4.0
147	FL	Hamilton	9.9	25.1	195	GA	Walton	21.0	47.0
147	GA	Lanier	9.9	5.1	195	GA	Barrow	21.0	46.4
147	GA	Echols	9.9	6.5	195	GA	Madison	21.0	17.1
150	GA	Fulton	3.0	2.1	195	GA	Oconee	21.0	4.1
150	GA	De Kalb	3.0	2.3	195	GA	Morgan	21.0	23.7
150	GA	Gwinnett	3.0	2.1	195	GA	Greene	21.0	14.1
150	GA	Clayton	3.0	2.2	195	GA	Oglethorpe	21.0	10.5
150	GA	Fayette	3.0	13.3	196	GA	Whitfield	12.4	5.6
150	GA	Henry	3.0	10.5	196	GA	Gordon	12.4	23.2
150	GA	Forsyth	3.0	18.5	196	GA	Murray	12.4	4.3
160	GA	Dougherty	7.2	2.5	196	GA	Gilmer	12.4	39.3
160	GA	Mitchell	7.2	23.2	197	GA	Glynn	19.5	6.3
160	GA	Worth	7.2	10.7	197	GA	Camden	19.5	42.8
160	GA	Lee	7.2	10.4	197	GA	Mc Intosh	19.5	28.7
160	GA	Terrell	7.2	6.9	202	GA	Crisp	45.1	30.3
160	GA	Baker	7.2	25.2	202	GA	Dooly	45.1	60.2
162	GA	Sumter	17.2	5.0	202	GA	Wilcox	45.1	74.7
162	GA	Macon	17.2	40.5	208	GA	Coffee	25.3	9.1
162	GA	Schley	17.2	19.4	208	GA	Appling	25.3	50.4
162	GA	Webster	17.2	39.0	208	GA	Jeff Davis	25.3	23.3
164	GA	Bibb	9.4	4.0	208	GA	Bacon	25.3	26.3
164	GA	Upson	9.4	5.1	208	GA	Atkinson	25.3	46.9
164	GA	Jones	9.4	6.8	212	GA	Laurens	21.6	10.3
164	GA	Monroe	9.4	6.1	212	GA	Dodge	21.6	19.9
164	GA	Lamar	9.4	21.4	212	GA	Telfair	21.6	33.0
164	GA	Wilkinson	9.4	41.6	212	GA	Johnson	21.6	29.7
164	GA	Twiggs	9.4	11.7	212	GA	Treutlen	21.6	41.9
164	GA	Pike	9.4	45.8	212	GA	Wheeler	21.6	47.9
164	GA	Taylor	9.4	36.5	220	GA	Decatur	26.4	25.6
164	GA	Crawford	9.4	18.4	220	GA	Seminole	26.4	29.1
169	GA	Cobb	43.4	48.9	222	GA	Rockdale	38.8	47.8
169	GA	Cherokee	43.4	48.3	222	GA	Newton	38.8	24.2
169	GA	Douglas	43.4	20.6	222	GA	Jasper	38.8	74.3
169	GA	Paulding	43.4	20.3	229	GA	Early	44.1	35.5
169	GA	Pickens	43.4	23.9	229	GA	Miller	44.1	43.8
170	GA	Ware	20.3	4.3	229	GA	Calhoun	44.1	66.5
170	GA	Pierce	20.3	6.9	230	GA	Chatham	3.5	0.9
170	GA	Brantley	20.3	58.5	230	GA	Liberty	3.5	2.0
170	GA	Charlton	20.3	63.5	230	GA	Effingham	3.5	3.0
170	GA	Clinch	20.3	20.8	230	GA	Wayne	3.5	6.6
172	GA	Bulloch	32.0	27.1	230	GA	Tattnall	3.5	38.1
172	GA	Emanuel	32.0	38.1	230	GA	Bryan	3.5	9.6
172	GA	Evans	32.0	38.0	230	GA	Long	3.5	6.0
172	GA	Candler	32.0	28.9	232	GA	Troup	21.2	9.9
175	GA	Thomas	17.3	5.1	232	GA	Coweta	21.2	24.1
175	GA	Grady	17.3	9.2	232	GA	Meriwether	21.2	39.2
175	GA	Brooks	17.3	56.6	232	GA	Heard	21.2	39.0
177	GA	Hall	17.3	9.6	249	GA	Carroll	26.4	23.5
177	GA	Jackson	17.3	41.1	249	AL	Randolph	26.4	33.0
177	GA	Habersham	17.3	18.8	249	GA	Haralson	26.4	28.8
177	GA	Lumpkin	17.3	6.2	252	GA	Wilkes	74.9	74.9
177	GA	White	17.3	6.5	259	GA	Toombs	36.7	34.9
177	GA	Banks	17.3	23.3	259	GA	Montgomery	36.7	44.6
177	GA	Dawson	17.3	39.2	267	GA	Spalding	22.4	19.0
178	GA	Tift	9.2	7.4	267	GA	Butts	22.4	35.1
178	GA	Ben Hill	9.2	8.0	268	GA	Colquitt	15.7	15.7
178	GA	Turner	9.2	16.1	320	IA	Dubuque	16.1	6.2
178	GA	Irwin	9.2	11.6	320	IA	Clinton	16.1	27.7
184	GA	Baldwin	29.2	26.3	320	IL	Jo Daviess	16.1	36.6
184	GA	Putnam	29.2	26.3	320	IA	Jackson	16.1	9.2
184	GA	Hancock	29.2	43.5	345	IA	Des Moines	19.5	12.8
190	GA	Houston	22.4	16.4					
190	GA	Peach	22.4	30.5					
190	GA	Bleckley	22.4	53.3					

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			Area	County				Area	County
345	IA	Lee	19.5	13.0	623	IA	Audubon	17.6	22.2
345	IL	Hancock	19.5	29.2	637	IA	Jefferson	36.6	41.1
345	IA	Henry	19.5	17.2	637	IA	Van Buren	36.6	27.4
345	IL	Henderson	19.5	38.1	645	IA	Sioux	21.4	11.7
345	MO	Clark	19.5	54.9	645	IA	Obrien	21.4	26.4
547	IA	Polk	4.5	1.4	645	IA	Lyon	21.4	42.8
547	IA	Warren	4.5	2.5	653	IA	Winneshiek	25.5	14.5
547	IA	Jasper	4.5	16.8	653	IA	Allamakee	25.5	37.6
547	IA	Marion	4.5	11.8	653	IA	Howard	25.5	30.3
547	IA	Dallas	4.5	10.4	655	IA	Clayton	47.5	50.4
547	IA	Madison	4.5	10.5	655	IA	Delaware	47.5	44.8
547	IA	Lucas	4.5	20.4	657	IA	Clay	17.5	16.5
547	IA	Clarke	4.5	26.7	657	IA	Dickinson	17.5	19.0
548	IA	Linn	7.3	3.9	659	IA	Appanoose	32.1	26.7
548	IA	Benton	7.3	16.5	659	IA	Wayne	32.1	43.4
548	IA	Jones	7.3	28.1	660	IA	Carroll	19.2	12.5
551	IA	Johnson	13.6	4.2	660	IA	Calhoun	19.2	36.3
551	IA	Muscatine	13.6	6.9	663	IA	Guthrie	47.4	46.7
551	IA	Washington	13.6	3.3	663	IA	Greene	47.4	48.0
551	IA	Cedar	13.6	42.2	667	IA	Hardin	40.9	39.2
551	IA	Iowa	13.6	33.3	667	IA	Franklin	40.9	43.6
551	IA	Keokuk	13.6	47.0	675	IA	Marshall	20.7	10.0
551	IA	Louisa	13.6	36.3	675	IA	Poweshiek	20.7	23.6
552	IA	Woodbury	7.2	2.9	675	IA	Tama	20.7	42.1
552	IA	Plymouth	7.2	11.0	677	IA	Shelby	29.0	29.0
552	NE	Dakota	7.2	1.8	689	IA	Crawford	20.4	20.4
552	IA	Monona	7.2	18.2	691	IA	Scott	17.8	17.8
552	SD	Union	7.2	36.9	702	ID	Cassia	17.4	16.8
552	NE	Thurston	7.2	4.6	702	ID	Minidoka	17.4	18.0
552	NE	Dixon	7.2	29.0	703	ID	Twin Falls	4.0	3.2
567	IA	Wapello	18.5	14.6	703	ID	Jerome	4.0	5.3
567	IA	Mahaska	18.5	25.8	703	ID	Gooding	4.0	3.6
567	IA	Davis	18.5	17.3	703	ID	Lincoln	4.0	14.7
567	IA	Monroe	18.5	15.6	713	ID	Nez Perce	5.4	5.1
572	IA	Black Hawk	13.8	8.2	713	WA	Asotin	5.4	4.9
572	IA	Bremer	13.8	4.4	713	ID	Idaho	5.4	7.3
572	IA	Fayette	13.8	20.0	713	ID	Clearwater	5.4	4.1
572	IA	Buchanan	13.8	21.6	713	ID	Lewis	5.4	4.8
572	IA	Butler	13.8	29.9	713	WA	Garfield	5.4	8.5
572	IA	Chickasaw	13.8	22.8	716	ID	Ada	1.3	0.7
572	IA	Grundy	13.8	37.8	716	ID	Canyon	1.3	0.8
584	IA	Union	32.0	14.6	716	OR	Malheur	1.3	1.1
584	IA	Adair	32.0	40.9	716	ID	Payette	1.3	1.2
584	IA	Taylor	32.0	56.8	716	ID	Gem	1.3	2.1
584	IA	Adams	32.0	26.0	716	ID	Owyhee	1.3	16.4
591	IA	Story	11.9	9.6	716	ID	Washington	1.3	3.1
591	IA	Boone	11.9	17.3	716	ID	Boise	1.3	0.8
591	IA	Hamilton	11.9	14.2	724	ID	Valley	22.6	21.5
592	IA	Cerro Gordo	17.1	10.0	724	ID	Adams	22.6	25.2
592	IA	Floyd	17.1	24.4	726	ID	Bonner	24.6	22.1
592	IA	Hancock	17.1	17.5	726	MT	Sanders	24.6	45.5
592	IA	Winnebago	17.1	29.4	726	ID	Boundary	24.6	7.7
592	IA	Worth	17.1	25.2	744	ID	Kootenai	12.7	12.1
603	IA	Webster	19.8	15.3	744	ID	Shoshone	12.7	5.8
603	IA	Wright	19.8	30.0	744	ID	Benewah	12.7	27.7
603	IA	Humboldt	19.8	15.7	759	ID	Madison	8.5	6.8
603	IA	Pocahontas	19.8	29.6	759	ID	Fremont	8.5	7.8
619	IA	Buena Vista	20.2	14.7	759	ID	Teton	8.5	23.2
619	IA	Cherokee	20.2	20.9	761	ID	Bonneville	16.5	5.7
619	IA	Sac	20.2	33.4	761	ID	Bingham	16.5	20.6
619	IA	Ida	20.2	14.5	761	ID	Jefferson	16.5	50.5
620	IA	Page	22.5	15.1					
620	IA	Montgomery	22.5	30.5					
620	IA	Fremont	22.5	24.9					
623	IA	Cass	17.6	15.2					

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			Area	County				Area	County
761	ID	Butte	16.5	8.4	322	IL	Woodford	8.3	28.7
761	ID	Clark	16.5	45.0	322	IL	Mason	8.3	44.7
771	ID	Bannock	6.5	4.7	322	IL	Marshall	8.3	42.0
771	ID	Carlbou	6.5	20.5	322	IL	Stark	8.3	35.9
771	ID	Power	6.5	6.9	325	IL	Knox	7.2	6.9
826	ID	Elmore	13.9	13.9	325	IL	Warren	7.2	8.0
830	ID	Blaine	7.6	6.9	326	IL	Mc Donough	10.7	8.7
830	ID	Camas	7.6	20.7	326	IL	Schuyler	10.7	19.1
833	ID	Lemhi	29.0	5.7	328	IL	Effingham	20.4	12.7
833	ID	Custer	29.0	61.6	328	IL	Fayette	20.4	19.9
281	IL	Champaign	6.0	1.4	328	IL	Jasper	20.4	47.6
281	IL	Coles	6.0	4.3	329	IL	Rock Island	12.6	10.0
281	IL	Douglas	6.0	13.3	329	IL	Henry	12.6	17.5
281	IL	Platt	6.0	26.2	329	IL	Mercer	12.6	22.6
281	IL	Ford	6.0	15.5	335	IL	Macoupin	46.4	58.7
281	IL	Cumberland	6.0	37.4	335	IL	Montgomery	46.4	27.3
285	IL	Winnebago	7.7	3.2	340	IL	Stephenson	32.6	25.8
285	IL	De Kalb	7.7	15.4	340	IL	Carroll	32.6	53.8
285	IL	Ogle	7.7	23.7	348	IL	Jefferson	24.9	21.5
285	IL	Boone	7.7	7.4	348	IL	Wayne	24.9	14.7
286	IL	Madison	23.3	24.1	348	IL	Richland	24.9	24.1
286	IL	Jersey	23.3	4.1	348	IL	Clay	24.9	21.8
286	IL	Greene	23.3	39.0	348	IL	Hamilton	24.9	50.6
286	IL	Calhoun	23.3	12.4	348	IL	Edwards	24.9	49.8
290	IL	Will	41.5	44.2	350	IL	Kankakee	9.6	6.2
290	IL	Grundy	41.5	11.6	350	IL	Iroquois	9.6	21.4
292	IL	Jackson	10.7	3.9	354	IL	Marion	20.1	14.7
292	IL	Williamson	10.7	5.1	354	IL	Washington	20.1	36.9
292	IL	Franklin	10.7	10.2	368	IL	Whiteside	25.9	24.0
292	IL	Perry	10.7	14.8	368	IL	Lee	25.9	29.0
292	IL	Union	10.7	29.8	369	IL	Vermilion	21.9	12.8
292	IL	Johnson	10.7	48.0	369	IL	Edgar	21.9	30.0
297	IL	Sangamon	5.1	0.9	369	IN	Fountain	21.9	43.7
297	IL	Morgan	5.1	1.9	369	IN	Vermillion	21.9	44.1
297	IL	Christian	5.1	20.2	372	IL	St. Clair	17.9	15.6
297	IL	Logan	5.1	16.8	372	IL	Randolph	17.9	13.9
297	IL	Cass	5.1	12.9	372	IL	Clinton	17.9	23.8
297	IL	Menard	5.1	1.2	372	IL	Monroe	17.9	40.0
297	IL	Scott	5.1	12.0	372	IL	Bond	17.9	32.8
302	IL	Adams	10.5	2.0	272	IN	Vanderburgh	6.7	0.7
302	MO	Marion	10.5	2.2	272	IN	Warrick	6.7	1.9
302	IL	Pike	10.5	14.3	272	IN	Gibson	6.7	5.1
302	MO	Pike	10.5	26.9	272	IN	Saline	6.7	15.4
302	MO	Lewis	10.5	8.5	272	IN	Posey	6.7	0.9
302	MO	Ralls	10.5	12.9	272	IN	Spencer	6.7	59.1
302	MO	Shelby	10.5	49.7	272	IL	White	6.7	13.3
302	IL	Brown	10.5	59.7	272	IL	Wabash	6.7	10.5
308	IL	La Salle	14.8	11.4	272	IL	Gallatin	6.7	6.6
308	IL	Livingston	14.8	28.0	272	IL	Hardin	6.7	33.3
308	IL	Bureau	14.8	11.1	276	IN	Marion	1.8	0.5
308	IL	Putnam	14.8	5.3	276	IN	Hamilton	1.8	3.9
309	IL	Cook	1.4	1.4	276	IN	Johnson	1.8	5.6
309	IL	Du Page	1.4	0.6	276	IN	Hendricks	1.8	1.8
309	IL	Lake	1.4	0.6	276	IN	Morgan	1.8	14.0
309	IL	Kane	1.4	1.4	276	IN	Hancock	1.8	3.1
309	IL	Mc Henry	1.4	4.0	276	IN	Boone	1.8	3.2
309	IL	Kendall	1.4	19.5	282	IN	Bartholomew	9.4	5.6
313	IL	Macon	11.5	2.9	282	IN	Jackson	9.4	16.0
313	IL	Mc Lean	11.5	7.1	282	IN	Jennings	9.4	8.6
313	IL	Shelby	11.5	63.4	294	IN	Tippecanoe	8.5	2.1
313	IL	De Witt	11.5	19.8	294	IN	Clinton	8.5	16.1
313	IL	Moultrie	11.5	33.5	294	IN	White	8.5	16.1
322	IL	Peoria	8.3	0.7	294	IN	Carroll	8.5	16.9
322	IL	Tazewell	8.3	3.1	294	IN	Benton	8.5	7.6
322	IL	Fulton	8.3	22.0					

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
294	IN	Warren	8.5	44.3	403	IN	Putnam	41.4	41.4
295	IN	Vigo	11.0	2.2	539	KS	Saline	8.5	2.7
295	IN	Clay	11.0	5.8	539	KS	Dickinson	8.5	19.7
295	IN	Sullivan	11.0	12.0	539	KS	Ellsworth	8.5	26.0
295	IL	Clark	11.0	40.8	539	KS	Ottawa	8.5	6.5
295	IN	Parke	11.0	53.1	539	KS	Lincoln	8.5	17.4
304	IN	Allen	4.5	1.7	545	KS	Riley	5.0	3.7
304	IN	Noble	4.5	22.4	545	KS	Geary	5.0	3.5
304	IN	De Kalb	4.5	2.8	545	KS	Pottawatomie	5.0	13.6
304	IN	Whitley	4.5	7.0	545	KS	Clay	5.0	12.3
304	IN	Steuben	4.5	11.9	549	KS	Shawnee	8.6	2.7
310	IN	Lawrence	17.6	14.8	549	KS	Jefferson	8.6	32.5
310	IN	Dubois	17.6	6.8	549	KS	Osage	8.6	28.2
310	IN	Daviess	17.6	27.1	549	KS	Jackson	8.6	16.0
310	IN	Orange	17.6	14.5	549	KS	Wabaunsee	8.6	49.0
310	IN	Pike	17.6	52.7	553	KS	Finney	6.3	3.9
310	IN	Martin	17.6	11.2	553	KS	Kearny	6.3	5.7
315	IN	Delaware	10.1	5.7	553	KS	Haskell	6.3	25.9
315	IN	Randolph	10.1	20.2	553	KS	Hamilton	6.3	20.0
315	IN	Blackford	10.1	25.8	558	KS	Ford	12.4	5.9
318	IN	Madison	10.7	10.6	558	KS	Gray	12.4	35.4
318	IN	Howard	10.7	3.0	558	KS	Kiowa	12.4	25.7
318	IN	Miami	10.7	22.5	558	KS	Clark	12.4	13.6
318	IN	Tipton	10.7	21.0	558	KS	Comanche	12.4	7.5
330	IN	St. Joseph	5.2	4.1	558	KS	Hodgeman	12.4	20.6
330	IN	Marshall	5.2	11.5	568	KS	Johnson	21.9	29.5
332	IN	Ripley	43.8	46.5	568	KS	Wyandotte	21.9	13.6
332	IN	Decatur	43.8	40.8	568	KS	Leavenworth	21.9	8.3
333	IN	Lake	4.8	3.2	568	KS	Miami	21.9	17.1
333	IN	Porter	4.8	6.7	568	KS	Linn	21.9	58.2
333	IN	Jasper	4.8	16.9	570	KS	Seward	11.3	5.4
333	IN	Newton	4.8	26.7	570	OK	Beaver	11.3	24.3
337	IN	Knox	16.5	10.8	570	KS	Stevens	11.3	19.2
337	IL	Crawford	16.5	21.1	570	KS	Meade	11.3	18.6
337	IL	Lawrence	16.5	25.0	574	KS	Grant	29.2	34.0
338	IN	Monroe	17.4	4.4	574	CO	Baca	29.2	23.6
338	IN	Greene	17.4	30.6	574	KS	Stanton	29.2	20.2
338	IN	Owen	17.4	27.8	578	KS	Ellis	7.1	2.1
338	IN	Brown	17.4	64.6	578	KS	Russell	7.1	18.2
351	IN	Elkhart	14.4	9.8	578	KS	Rooks	7.1	8.8
351	IN	Kosciusko	14.4	20.7	578	KS	Trego	7.1	10.9
351	IN	Lagrange	14.4	22.7	578	KS	Graham	7.1	19.3
360	IN	Jefferson	37.1	25.3	586	KS	Sedgwick	2.4	1.2
360	KY	Carroll	37.1	65.8	586	KS	Butler	2.4	6.9
360	KY	Trimble	37.1	44.2	586	KS	Sumner	2.4	9.4
361	IN	Cass	25.2	22.5	586	KS	Pratt	2.4	14.1
361	IN	Fulton	25.2	28.3	586	KS	Kingman	2.4	12.6
361	IN	Pulaski	25.2	28.2	589	KS	Barton	9.4	5.3
371	IN	Adams	18.5	16.0	589	KS	Pawnee	9.4	4.1
371	IN	Wells	18.5	17.2	589	KS	Stafford	9.4	27.4
371	IN	Jay	18.5	23.9	589	KS	Rush	9.4	29.7
379	IN	La Porte	14.9	10.4	589	KS	Edwards	9.4	18.1
379	IN	Starke	14.9	36.6	597	KS	Mitchell	22.7	18.3
384	IN	Grant	13.2	11.8	597	KS	Osborne	22.7	29.0
384	IN	Wabash	13.2	16.1	600	KS	Harvey	13.7	14.4
386	IN	Shelby	51.0	52.2	600	KS	Marion	13.7	11.9
386	IN	Rush	51.0	48.3	606	KS	Thomas	15.3	10.7
391	IN	Wayne	8.8	8.8	606	KS	Gove	15.3	27.5
392	IN	Henry	36.6	36.6	606	KS	Logan	15.3	9.3
395	IN	Montgomery	30.8	30.8	606	KS	Sheridan	15.3	20.8
396	IN	Huntington	35.0	35.0	611	KS	Sherman	32.8	32.1
					611	KS	Cheyenne	32.8	34.4
					614	KS	Phillips	18.4	17.5
					614	KS	Norton	18.4	13.0

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			Area	County				Area	County
614	KS	Smith	18.4	26.9	22	KY	Lincoln	27.2	20.1
615	KS	Reno	14.8	10.7	22	KY	Casey	27.2	54.2
615	KS	McPherson	14.8	23.8	22	KY	Garrard	27.2	41.8
615	KS	Rice	14.8	16.3	31	KY	Calloway	20.7	7.2
616	KS	Montgomery	25.4	20.8	31	TN	Henry	20.7	18.9
616	KS	Wilson	25.4	33.5	31	TN	Benton	20.7	52.8
616	KS	Elk	25.4	62.0	33	KY	Mc Cracken	13.3	2.8
617	KS	Scott	21.9	18.8	33	KY	Marshall	13.3	34.4
617	KS	Wichita	21.9	14.5	33	IL	Massac.	13.3	10.2
617	KS	Wallace	21.9	53.6	33	KY	Livingston	13.3	4.8
617	KS	Greeley	21.9	9.2	33	KY	Crittenden	13.3	14.4
625	KS	Lyon	11.4	3.3	33	KY	Ballard	13.3	8.4
625	KS	Coffey	11.4	23.7	33	KY	Lyon	13.3	49.7
625	KS	Greenwood	11.4	23.5	33	KY	Carlisle	13.3	26.0
625	KS	Morris	11.4	35.5	33	IL	Pope	13.3	34.0
625	KS	Chase	11.4	17.6	44	KY	Bell	26.4	11.3
628	KS	Douglas	15.3	13.1	44	TN	Claiborne	26.4	49.8
628	KS	Franklin	15.3	20.2	45	KY	Rowan	33.4	12.7
628	KS	Anderson	15.3	20.1	45	KY	Mason	33.4	16.9
633	KS	Labette	14.9	16.2	45	KY	Fleming	33.4	17.0
633	KS	Neosho	14.9	11.2	45	KY	Morgan	33.4	44.0
633	KS	Allen	14.9	15.2	45	KY	Bath	33.4	41.9
633	KS	Woodson	14.9	22.8	45	KY	Bracken	33.4	54.7
636	KS	Marshall	34.8	31.5	45	KY	Wolfe	33.4	72.0
636	KS	Washington	34.8	41.8	45	KY	Elliott	33.4	53.7
641	KS	Crawford	14.9	19.0	45	KY	Menifee	33.4	43.9
641	KS	Bourbon	14.9	6.3	46	KY	Hardin	15.2	9.3
648	KS	Cowley	16.6	12.0	46	KY	Meade	15.2	37.1
648	KS	Chautauqua	16.6	54.5	46	KY	Grayson	15.2	14.3
656	KS	Cloud	21.8	24.8	46	KY	Breckinridge	15.2	34.6
656	KS	Republic	21.8	16.3	46	KY	Larue	15.2	16.7
668	KS	Atchison	20.6	11.3	47	KY	Laurel	28.0	26.6
668	KS	Brown	20.6	34.6	47	KY	Whitley	28.0	8.1
672	KS	Decatur	26.7	22.6	47	TN	Campbell	28.0	55.5
672	KS	Rawlins	26.7	31.6	47	KY	Knox	28.0	24.2
674	KS	Harper	15.1	17.1	63	KY	Pike	13.8	10.0
674	KS	Barber	15.1	13.1	63	KY	Floyd	13.8	5.1
678	KS	Nemaha	18.2	18.2	63	KY	Johnson	13.8	20.0
688	KS	Ness	35.1	20.1	63	KY	Knott	13.8	45.0
688	KS	Lane	35.1	66.4	63	KY	Magoffin	13.8	14.3
3	KY	Warren	7.4	4.2	83	KY	Perry	24.6	20.0
3	KY	Barren	7.4	2.1	83	KY	Breathitt	24.6	43.6
3	KY	Hart	7.4	21.7	83	KY	Leslie	24.6	18.2
3	KY	Allen	7.4	6.4	98	KY	Clinton	45.1	46.2
3	KY	Simpson	7.4	15.2	98	KY	Cumberland	45.1	43.6
3	KY	Monroe	7.4	5.2	100	KY	Logan	58.8	58.8
3	KY	Butler	7.4	16.2	101	KY	Hopkins	11.1	10.2
3	KY	Edmonson	7.4	12.9	101	KY	Muhlenberg	11.1	12.5
3	KY	Metcalfe	7.4	8.4	118	KY	Clay	39.7	35.0
4	KY	Pulaski	10.9	5.6	118	KY	Owsley	39.7	61.1
4	KY	Taylor	10.9	9.2	124	KY	Harlan	14.1	14.1
4	KY	Wayne	10.9	15.2	125	KY	Montgomery	43.5	43.5
4	KY	Mc Creary	10.9	4.4	134	KY	Henderson	19.0	13.5
4	KY	Adair	10.9	19.5	134	KY	Union	19.0	10.6
4	KY	Russell	10.9	13.0	134	KY	Webster	19.0	46.6
4	KY	Green	10.9	31.3	189	KY	Graves	26.5	56.8
16	KY	Madison	34.0	26.3	189	TN	Obion	26.5	5.6
16	KY	Estill	34.0	19.0	189	TN	Weakley	26.5	19.2
16	KY	Rockcastle	34.0	53.2	189	KY	Fulton	26.5	5.5
16	KY	Jackson	34.0	49.1	189	TN	Lake	26.5	39.6
16	KY	Lee	34.0	47.8	189	KY	Hickman	26.5	23.9
22	KY	Boyle	27.2	15.5	271	KY	Fayette	2.7	1.1
22	KY	Mercer	27.2	22.0	271	KY	Jessamine	2.7	1.5
					271	KY	Clark	2.7	2.6

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			Area	County				Area	County
271	KY	Scott	2.7	5.0	445	LA	St. John the Baptist	2.1	8.7
271	KY	Woodford	2.7	5.8	445	LA	Plaquemines	2.1	1.7
271	KY	Bourbon	2.7	2.9	446	LA	Lincoln	50.2	51.3
271	KY	Harrison	2.7	1.6	446	LA	Jackson	50.2	33.4
271	KY	Powell	2.7	22.4	446	LA	Winn	50.2	64.4
271	KY	Nicholas	2.7	6.7	451	LA	Lafayette	2.2	0.9
271	KY	Robertson	2.7	21.2	451	LA	St. Landry	2.2	2.1
287	KY	Jefferson	3.4	1.3	451	LA	Iberia	2.2	1.3
287	IN	Clark	3.4	1.6	451	LA	Acadia	2.2	3.5
287	IN	Floyd	3.4	0.8	451	LA	Vermilion	2.2	1.3
287	KY	Bullitt	3.4	5.6	451	LA	St. Martin	2.2	1.7
287	KY	Oldham	3.4	1.2	451	LA	Evangeline	2.2	10.8
287	IN	Harrison	3.4	1.7	459	LA	Calcasieu	8.6	1.4
287	IN	Washington	3.4	11.3	459	LA	Vernon	8.6	14.3
287	IN	Scott	3.4	21.6	459	LA	Beauregard	8.6	2.4
287	KY	Henry	3.4	52.3	459	LA	Jefferson Davis	8.6	29.0
287	IN	Crawford	3.4	44.9	459	LA	Allen	8.6	26.9
287	KY	Spencer	3.4	40.2	459	LA	Cameron	8.6	5.1
317	KY	Franklin	35.5	25.9	469	LA	St. Tammany	31.1	39.9
317	KY	Shelby	35.5	39.8	469	LA	Washington	31.1	10.5
317	KY	Anderson	35.5	45.1	469	MS	Pearl River	31.1	21.5
317	KY	Owen	35.5	62.5	518	LA	Tangipahoa	45.4	17.4
377	KY	Daviess	8.7	2.8	518	LA	Livingston	45.4	84.5
377	KY	Ohio	8.7	9.0	518	LA	St. Helena	45.4	28.5
377	IN	Perry	8.7	36.4	28	MA	Middlesex	4.5	5.8
377	KY	Mc Lean	8.7	21.2	28	MA	Suffolk	4.5	1.2
377	KY	Hancock	8.7	4.8	28	MA	Norfolk	4.5	5.0
390	KY	Nelson	43.9	59.0	28	MA	Plymouth	4.5	5.5
390	KY	Marion	43.9	18.2	48	MA	Hampden	2.5	2.1
390	KY	Washington	43.9	42.3	48	MA	Hampshire	2.5	4.2
411	LA	East Baton Rouge	2.4	1.3	88	MA	Essex	19.8	19.0
411	LA	Ascension	2.4	7.1	88	NH	Rockingham	19.8	28.0
411	LA	Iberville	2.4	0.9	88	NH	Strafford	19.8	5.7
411	LA	Pointe Coupee	2.4	4.1	89	MA	Berkshire	15.9	4.1
411	LA	West Baton Rouge	2.4	0.9	89	NY	Columbia	15.9	29.5
411	LA	East Feliciana	2.4	8.8	89	NY	Greene	15.9	34.8
411	LA	West Feliciana	2.4	6.1	99	MA	Worcester	14.4	13.5
412	LA	Caddo	2.8	0.7	99	MA	Franklin	14.4	24.6
412	LA	Bossier	2.8	0.6	102	MA	Bristol	22.6	23.9
412	LA	Webster	2.8	1.0	102	RI	Newport	22.6	14.9
412	LA	Natchitoches	2.8	18.9	121	MA	Barnstable	22.6	22.6
412	LA	De Soto	2.8	1.5	135	MA	Nantucket	8.9	8.9
412	LA	Sabine	2.8	5.2	136	MA	Dukes	7.8	7.8
412	LA	Claiborne	2.8	5.2	27	MD	Montgomery	3.5	3.2
412	LA	Bienville	2.8	17.8	27	MD	Prince Georges	3.5	5.0
412	LA	Red River	2.8	0.5	27	DC	The District	3.5	1.8
418	LA	Ouachita	4.2	1.6	27	MD	Charles	3.5	4.4
418	LA	Morehouse	4.2	1.3	30	MD	Baltimore	6.0	0.7
418	LA	Franklin	4.2	11.1	30	MD	Anne Arundel	6.0	18.8
418	LA	Richland	4.2	1.6	30	MD	Harford	6.0	1.5
418	LA	Union	4.2	18.1	30	MD	Howard	6.0	24.3
418	LA	West Carroll	4.2	3.9	30	MD	Carroll	6.0	13.1
418	LA	Caldwell	4.2	2.8	70	MD	Allegany	7.7	3.1
418	LA	East Carroll	4.2	14.4	70	WV	Mineral	7.7	3.1
424	LA	Rapides	5.6	2.2	70	MD	Garrett	7.7	17.9
424	LA	Avoyelles	5.6	9.9	70	WV	Grant	7.7	22.7
424	LA	Grant	5.6	6.7	91	MD	Queen Annes	16.1	35.6
424	LA	La Salle	5.6	24.8	91	MD	Dorchester	16.1	8.7
436	LA	Terrebonne	12.9	2.4	91	MD	Talbot	16.1	5.7
436	LA	Lafourche	12.9	3.4	91	MD	Caroline	16.1	12.5
436	LA	St. Mary	12.9	26.9	91	MD	Kent	16.1	14.7
436	LA	Assumption	12.9	15.7	94	MD	St. Marys	23.8	19.9
436	LA	St. James	12.9	52.4	94	MD	Calvert	23.8	30.9
445	LA	Orleans	2.1	0.4					
445	LA	Jefferson	2.1	1.7					
445	LA	St. Bernard	2.1	0.7					
445	LA	St. Charles	2.1	19.7					

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86—Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
114	MD	Frederick	37.1	37.1	323	MI	Roscommon	47.2	64.7
11	ME	Penobscot	3.0	3.4	323	MI	Crawford	47.2	25.7
11	ME	Hancock	3.0	1.3	336	MI	Houghton	3.8	2.6
11	ME	Washington	3.0	4.0	336	MI	Baraga	3.8	8.4
11	ME	Piscataquis	3.0	2.1	336	MI	Keweenaw	3.8	5.4
23	ME	Kennebec	15.1	14.5	339	MI	Montcalm	22.3	29.8
23	ME	Somerset	15.1	16.3	339	MI	Gratiot	22.3	11.9
50	ME	Cumberland	13.9	3.3	341	MI	St. Clair	24.0	22.4
50	ME	York	13.9	29.2	341	MI	Sanilac	24.0	30.0
50	ME	Sagadahoc	13.9	6.3	352	MI	Midland	15.2	8.7
50	ME	Lincoln	13.9	27.2	352	MI	Isabella	15.2	26.9
96	ME	Androscoggin	12.0	10.5	352	MI	Clare	15.2	11.3
96	ME	Oxford	12.0	19.0	352	MI	Gladwin	15.2	16.5
96	ME	Franklin	12.0	5.8	355	MI	Muskegon	15.5	8.8
112	ME	Knox	26.6	12.1	355	MI	Newaygo	15.5	42.0
112	ME	Waldo	26.6	43.3	355	MI	Oceana	15.5	18.5
132	ME	Aroostook	3.5	3.5	357	MI	Delta	5.6	5.1
273	MI	Grand Traverse	2.5	1.4	357	MI	Schoolcraft	5.6	5.6
273	MI	Leelanau	2.5	0.7	357	MI	Luce	5.6	8.3
273	MI	Kalkaska	2.5	7.5	370	MI	Gogebic	14.8	11.2
273	MI	Benzie	2.5	5.0	370	WI	Ashland	14.8	14.2
274	MI	Ingham	4.9	3.1	370	WI	Bayfield	14.8	14.2
274	MI	Eaton	4.9	7.4	370	WI	Iron	14.8	28.8
274	MI	Cilinton	4.9	10.5	374	MI	St. Joseph	25.3	26.8
293	MI	Emmet	16.6	0.6	374	MI	Hillsdale	25.3	25.5
293	MI	Cheboygan	16.6	4.0	374	MI	Branch	25.3	22.8
293	MI	Charlevoix	16.6	2.9	383	MI	Mason	13.9	4.2
293	MI	Antrim	16.6	67.5	383	MI	Manistee	13.9	26.7
293	MI	Mackinac	16.6	32.3	385	MI	Calhoun	18.2	9.4
296	MI	Alpena	21.3	6.1	385	MI	Barry	18.2	43.6
296	MI	Otsego	21.3	32.4	393	MI	Monroe	51.2	51.2
296	MI	Presque Isle	21.3	32.0	398	MI	Chippewa	13.0	13.0
296	MI	Alcona	21.3	37.8	400	MI	Huron	19.6	19.6
296	MI	Montmorency	21.3	17.0	401	MI	Jackson	17.2	17.2
298	MI	Mecosta	18.0	27.7	402	MI	Lenawee	18.5	18.5
298	MI	Wexford	18.0	16.2	835	MI	Ontonagon	38.7	38.7
298	MI	Osceola	18.0	7.5	280	MN	St. Louis	1.0	0.8
298	MI	Missaukee	18.0	10.1	280	WI	Douglas	1.0	2.1
298	MI	Lake	18.0	26.3	280	MN	Carlton	1.0	0.8
303	MI	Kalamazoo	8.7	2.8	280	MN	Lake	1.0	0.7
303	MI	Berrien	8.7	10.0	280	MN	Cook	1.0	2.5
303	MI	Van Buren	8.7	8.2	289	MN	Hennepin	7.3	3.5
303	MI	Cass	8.7	34.3	289	MN	Anoka	7.3	10.1
305	MI	Wayne	1.0	0.4	289	MN	Wright	7.3	17.2
305	MI	Oakland	1.0	1.7	289	MN	Carver	7.3	29.2
305	MI	Macomb	1.0	0.7	289	MN	Sherburne	7.3	41.4
305	MI	Washtenaw	1.0	1.5	289	MN	Isanti	7.3	14.0
305	MI	Livingston	1.0	9.6	312	MN	Dakota	47.9	59.3
306	MI	Genesee	5.9	1.5	312	MN	Scott	47.9	26.4
306	MI	Saginaw	5.9	3.2	312	MN	Rice	47.9	15.7
306	MI	Lapeer	5.9	20.0	312	MN	Le Sueur	47.9	40.4
306	MI	Shiawassee	5.9	25.1	321	MN	Ramsey	24.1	25.8
306	MI	Tuscola	5.9	12.0	321	MN	Washington	24.1	12.5
307	MI	Bay	17.3	22.4	321	WI	St. Croix	24.1	12.1
307	MI	Iosco	17.3	5.2	321	WI	Pierce	24.1	52.0
307	MI	Ogemaw	17.3	7.1	321	MN	Chisago	24.1	34.6
307	MI	Arenac	17.3	10.2	364	MN	Winona	42.8	34.5
307	MI	Oscoda	17.3	43.7	364	WI	Buffalo	42.8	69.2
311	MI	Marquette	2.2	1.5	566	MN	Beltrami	5.3	3.1
311	MI	Alger	2.2	9.1	566	MN	Hubbard	5.3	5.7
319	MI	Kent	6.6	1.3	566	MN	Clearwater	5.3	14.8
319	MI	Ottawa	6.6	3.6					
319	MI	Allegan	6.6	23.4					
319	MI	Ionia	6.6	41.2					

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
576	MN	Olmsted	8.0	0.8	324	MO	Cape Girardeau	17.7	3.0
576	MN	Goodhue	8.0	14.1	324	MO	Scott	17.7	6.0
576	MN	Fillmore	8.0	38.7	324	MO	New Madrid	17.7	55.7
576	MN	Wabasha	8.0	2.5	324	MO	Perry	17.7	15.9
576	MN	Dodge	8.0	13.8	324	MO	Mississippi	17.7	5.3
583	MN	Becker	27.3	27.6	324	IL	Alexander	17.7	36.3
583	MN	Mahnomen	27.3	25.8	324	MO	Bollinger	17.7	17.2
587	MN	Crow Wing	24.4	7.2	324	IL	Pulaski	17.7	50.1
587	MN	Cass	24.4	56.1	543	MO	Jasper	8.5	4.9
588	MN	Nobles	18.0	17.7	543	MO	Newton	8.5	9.7
588	MN	Cottonwood	18.0	14.7	543	KS	Cherokee	8.5	13.4
588	MN	Jackson	18.0	18.6	543	MO	Barton	8.5	23.9
588	MN	Murray	18.0	21.7	544	MO	Phelps	15.3	9.5
588	IA	Osceola	18.0	17.8	544	MO	Crawford	15.3	29.5
598	MN	Otter Tail	19.6	15.8	544	MO	Dent	15.3	10.3
598	MN	Wadena	19.6	23.8	550	MO	Greene	7.0	1.1
598	MN	Grant	19.6	40.2	550	MO	Lawrence	7.0	8.8
610	MN	Kandiyohi	7.9	6.0	550	MO	Christian	7.0	1.4
610	MN	Chippewa	7.9	2.3	550	MO	Barry	7.0	26.6
610	MN	Yellow Medici	7.9	15.7	550	MO	Laclede	7.0	14.2
610	MN	Swift	7.9	9.3	550	MO	Taney	7.0	3.6
610	MN	Lac Qui Parle	7.9	11.8	550	MO	Webster	7.0	6.0
612	MN	Douglas	9.7	7.0	550	MO	Polk	7.0	3.1
612	MN	Pope	9.7	16.8	550	MO	Stone	7.0	4.1
613	MN	Pine	50.8	58.4	550	MO	Dallas	7.0	10.3
613	MN	Kanabec	50.8	38.6	550	MO	Douglas	7.0	51.1
622	MN	Roseau	16.5	17.8	550	MO	Dade	7.0	20.9
622	MN	Lake of the Woods	16.5	11.6	550	MO	Hickory	7.0	31.1
624	MN	Freeborn	15.8	12.1	555	MO	St. Louis	1.5	0.7
624	MN	Faribault	15.8	22.4	555	MO	St. Louis Cit.	1.5	1.6
631	MN	Lyon	15.3	11.7	555	MO	St. Charles	1.5	0.8
631	MN	Lincoln	15.3	30.8	555	MO	Jefferson	1.5	1.3
634	MN	Blue Earth	11.6	5.2	555	MO	Franklin	1.5	6.1
634	MN	Nicollet	11.6	18.0	555	MO	Lincoln	1.5	2.7
634	MN	Waseca	11.6	18.6	555	MO	Warren	1.5	2.7
634	MN	Watonwan	11.6	13.2	555	MO	Gasconade	1.5	34.9
644	MN	Brown	20.9	8.3	559	MO	Boone	6.8	1.6
644	MN	Renville	20.9	35.4	559	MO	Randolph	6.8	1.3
644	MN	Redwood	20.9	25.9	559	MO	Audrain	6.8	5.2
651	MN	Mc Leod	36.0	23.9	559	MO	Cooper	6.8	15.3
651	MN	Meeker	36.0	41.7	559	MO	Linn	6.8	17.7
651	MN	Sibley	36.0	55.9	559	MO	Montgomery	6.8	34.5
658	MN	Stearns	11.6	6.8	559	MO	Chariton	6.8	2.6
658	MN	Morrison	11.6	8.3	559	MO	Howard	6.8	1.0
658	MN	Benton	11.6	7.9	559	MO	Monroe	6.8	41.7
658	MN	Todd	11.6	43.1	577	MO	Adair	17.6	4.2
664	MN	Martin	16.9	9.6	577	MO	Macon	17.6	37.6
664	IA	Kossuth	16.9	25.6	577	MO	Sullivan	17.6	22.3
664	IA	Emmet	16.9	17.2	577	MO	Putnam	17.6	21.7
664	IA	Palo Alto	16.9	17.2	577	MO	Scotland	17.6	17.0
666	MN	Itasca	20.4	17.0	577	MO	Knox	17.6	22.6
666	MN	Aitkin	20.4	33.7	577	MO	Schuyler	17.6	10.0
669	MN	Mower	22.5	21.5	580	MO	Jackson	8.3	6.8
669	IA	Mitchell	22.5	25.8	580	MO	Clay	8.3	5.1
670	MN	Pipestone	21.4	24.8	580	MO	Cass	8.3	13.8
670	MN	Rock	21.4	17.7	580	MO	Platte	8.3	15.8
680	MN	Mille Lacs	22.1	22.1	580	MO	Ray	8.3	8.4
683	MN	Steele	28.6	28.6	580	MO	Clinton	8.3	34.4
685	MN	Stevens	13.2	13.2	580	MO	Bates	8.3	37.4
692	MN	Koochiching	15.3	15.3	585	MO	Livingston	25.0	14.8
					585	MO	Grundy	25.0	9.2
					585	MO	Daviess	25.0	26.9
					585	MO	Caldwell	25.0	50.8
					585	MO	Mercer	25.0	48.9
					590	MO	St. Francois	18.7	18.4
					590	MO	Washington	18.7	24.3
					590	MO	Madison	18.7	9.7

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			Area	County				Area	County
590	MO	Iron	18.7	18.2	417	AL	Choctaw	16.0	25.2
593	MO	Butler	19.8	2.4	417	AL	Sumter	16.0	30.2
593	MO	Dunklin	19.8	32.2	417	MS	Clarke	16.0	26.3
593	MO	Stoddard	19.8	30.3	417	MS	Kemper	16.0	9.1
593	MO	Ripley	19.8	8.8	420	MS	Pike	21.1	8.0
593	MO	Wayne	19.8	21.0	420	MS	Lincoln	21.1	25.5
593	MO	Reynolds	19.8	47.4	420	MS	Walthall	21.1	10.5
593	MO	Carter	19.8	6.1	420	MS	Amite	21.1	40.8
601	MO	Cole	30.1	21.0	420	MS	Lawrence	21.1	38.7
601	MO	Callaway	30.1	45.7	423	MS	Coahoma	9.6	5.9
601	MO	Camden	30.1	31.7	423	MS	Quitman	9.6	9.0
601	MO	Miller	30.1	18.3	423	MS	Tunica	9.6	24.3
601	MO	Morgan	30.1	58.5	431	MS	Lafayette	26.2	38.6
601	MO	Moniteau	30.1	25.0	431	MS	Grenada	26.2	7.5
601	MO	Osage	30.1	14.8	431	MS	Calhoun	26.2	40.8
601	MO	Maries	30.1	50.5	431	MS	Yalobusha	26.2	18.8
602	MO	Henry	21.1	17.5	444	MS	Harrison	10.4	4.8
602	MO	St. Clair	21.1	30.6	444	MS	Hancock	10.4	25.3
604	MO	Buchanan	10.2	6.5	444	MS	Stone	10.4	73.8
604	MO	Nodaway	10.2	8.7	447	MS	Monroe	34.4	19.0
604	MO	Andrew	10.2	3.2	447	AL	Marion	34.4	54.6
604	KS	Doniphan	10.2	35.9	447	AL	Fayette	34.4	45.8
604	MO	De Kalb	10.2	32.2	447	AL	Lamar	34.4	29.2
604	MO	Atchison	10.2	23.3	449	MS	Lee	11.5	2.7
604	MO	Gentry	10.2	7.2	449	MS	Alcorn	11.5	17.4
604	MO	Holt	10.2	4.9	449	MS	Prentiss	11.5	2.0
604	MO	Worth	10.2	21.4	449	MS	Union	11.5	3.6
621	MO	Vernon	32.3	31.7	449	MS	Pontotoc	11.5	4.5
621	MO	Cedar	32.3	33.3	449	MS	Itawamba	11.5	22.5
632	MO	Howell	24.9	14.7	449	MS	Tippah	11.5	8.6
632	AR	Fulton	24.9	23.4	449	MS	Chickasaw	11.5	34.4
632	MO	Oregon	24.9	17.3	449	MS	Tishomingo	11.5	24.9
632	MO	Ozark	24.9	63.9	449	MS	Benton	11.5	29.0
632	MO	Shannon	24.9	36.0	452	MS	Oktibbeha	13.1	9.4
635	MO	Johnson	40.6	24.5	452	MS	Winston	13.1	20.0
635	MO	Lafayette	40.6	56.1	452	MS	Webster	13.1	11.5
635	MO	Carroll	40.6	68.4	452	MS	Choctaw	13.1	14.4
639	MO	Pettis	31.7	17.0	454	MS	Adams	21.2	7.5
639	MO	Saline	31.7	46.8	454	LA	Concordia	21.2	17.3
639	MO	Benton	31.7	50.2	454	LA	Catahoula	21.2	37.3
654	MO	Harrison	38.9	55.3	454	MS	Jefferson	21.2	27.6
654	IA	Decatur	38.9	24.2	454	MS	Franklin	21.2	52.3
654	IA	Ringgold	38.9	34.3	454	LA	Tensas	21.2	35.3
671	MO	Texas	57.1	58.7	457	MS	Warren	20.2	15.5
671	MO	Wright	57.1	55.3	457	LA	Madison	20.2	29.1
679	MO	Pulaski	27.9	27.9	457	MS	Claiborne	20.2	15.2
684	MO	Ste Genevieve	41.7	41.7	457	MS	Sharkey	20.2	32.4
408	MS	Hinds	3.6	2.0	457	MS	Issaquena	20.2	30.7
408	MS	Rankin	3.6	0.7	467	MS	Jones	22.4	18.7
408	MS	Madison	3.6	0.5	467	MS	Wayne	22.4	14.1
408	MS	Copiah	3.6	4.5	467	MS	Jasper	22.4	23.9
408	MS	Yazoo	3.6	11.5	467	MS	Smith	22.4	51.8
408	MS	Scott	3.6	13.1	489	MS	Lowndes	25.2	22.8
408	MS	Simpson	3.6	7.3	489	MS	Clay	25.2	25.4
408	MS	Leake	3.6	13.6	489	MS	Noxubee	25.2	34.6
415	MS	Forrest	13.4	3.5	511	MS	Holmes	51.0	53.9
415	MS	Lamar	13.4	6.6	511	MS	Attala	51.0	46.1
415	MS	Marion	13.4	13.4	517	MS	Washington	10.7	7.8
415	MS	Covington	13.4	28.3	517	MS	Bolivar	10.7	12.1
415	MS	Jefferson Davis	13.4	33.5	517	MS	Sunflower	10.7	15.2
415	MS	Perry	13.4	9.2	522	MS	Leflore	28.8	7.2
415	MS	Greene	13.4	46.3	522	MS	Tallahatchie	28.8	51.0
417	MS	Lauderdale	16.0	5.3	522	MS	Humphreys	28.8	48.7
417	MS	Neshoba	16.0	29.1	522	MS	Carroll	28.8	59.2
417	MS	Newton	16.0	17.5	525	MS	Montgomery	35.7	35.7

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			Area	County				Area	County
535	MS	Wilkinson	38.4	38.4	153	GA	Rabun	15.3	44.2
694	MT	Custer	15.5	3.8	153	NC	Swain	15.3	5.1
694	MT	Dawson	15.5	16.6	153	NC	Graham	15.3	30.0
694	MT	Fallon	15.5	17.1	154	NC	Watauga	6.1	2.3
694	MT	Powder River	15.5	48.1	154	NC	Ashe	6.1	6.5
694	MT	Prairie	15.5	2.1	154	NC	Avery	6.1	8.1
694	MT	Garfield	15.5	23.2	154	TN	Johnson	6.1	12.6
694	MT	Wibaux	15.5	54.5	168	NC	Durham	7.2	6.4
699	MT	Yellowstone	6.4	1.2	168	NC	Vance	7.2	3.0
699	MT	Rosebud	6.4	34.5	168	NC	Granville	7.2	6.4
699	MT	Big Horn	6.4	16.6	168	NC	Person	7.2	16.6
699	MT	Carbon	6.4	3.7	168	NC	Warren	7.2	12.2
699	MT	Stillwater	6.4	2.0	171	NC	Guilford	8.5	4.1
699	MT	Musselshell	6.4	2.4	171	NC	Davidson	8.5	23.2
699	MT	Golden Valley	6.4	11.1	171	NC	Randolph	8.5	7.6
699	MT	Treasure	6.4	10.2	171	NC	Rockingham	8.5	6.2
704	MT	Silver Bow	6.5	2.1	174	NC	Pitt	8.8	2.4
704	MT	Deer Lodge	6.5	2.4	174	NC	Beaufort	8.8	6.4
704	MT	Powell	6.5	35.6	174	NC	Martin	8.8	3.1
705	MT	Lewis and Clark	11.9	5.6	174	NC	Hertford	8.8	18.9
705	MT	Jefferson	11.9	40.9	174	NC	Bertie	8.8	2.4
705	MT	Broadwater	11.9	21.1	174	NC	Greene	8.8	43.1
705	MT	Meagher	11.9	48.4	174	NC	Washington	8.8	2.1
711	MT	Cascade	3.5	1.1	174	NC	Chowan	8.8	7.0
711	MT	Pondera	3.5	22.8	174	NC	Gates	8.8	53.7
711	MT	Teton	3.5	0.7	174	NC	Hyde	8.8	9.3
711	MT	Chouteau	3.5	19.8	174	NC	Tyrrell	8.8	2.3
719	MT	Missoula	3.5	1.0	179	NC	Cherokee	30.4	28.1
719	MT	Ravalli	3.5	0.7	179	GA	Union	30.4	35.2
719	MT	Lake	3.5	11.5	179	NC	Clay	30.4	30.3
719	MT	Mineral	3.5	8.2	179	GA	Towns	30.4	30.2
719	MT	Granite	3.5	23.5	183	NC	Robeson	12.7	9.6
735	MT	Hill	5.8	1.9	183	NC	Scotland	12.7	10.9
735	MT	Blaine	5.8	3.4	183	NC	Bladen	12.7	29.5
735	MT	Phillips	5.8	14.0	187	NC	Mecklenburg	1.9	1.4
735	MT	Liberty	5.8	28.3	187	NC	Union	1.9	1.7
740	MT	Glacier	30.0	34.2	187	NC	Anson	1.9	10.7
740	MT	Toole	30.0	13.4	192	NC	Wake	10.4	4.2
743	MT	Gallatin	5.9	3.1	192	NC	Johnston	10.4	23.6
743	MT	Park	5.9	2.5	192	NC	Franklin	10.4	52.1
743	MT	Madison	5.9	28.7	206	NC	Cumberland	13.4	4.4
743	MT	Sweet Grass	5.9	20.4	206	NC	Harnett	13.4	49.7
760	MT	Roosevelt	22.1	27.8	206	NC	Hoke	13.4	38.9
760	MT	Valley	22.1	5.2	211	NC	Nash	18.0	15.8
760	MT	McCone	22.1	39.0	211	NC	Edgecombe	18.0	20.7
769	MT	Flathead	2.7	1.9	211	NC	Halifax	18.0	10.0
769	MT	Lincoln	2.7	5.1	211	NC	Northampton	18.0	40.2
779	MT	Sheridan	19.4	23.2	213	NC	Alamance	25.5	6.4
779	MT	Daniels	19.4	10.0	213	NC	Orange	25.5	49.8
781	MT	Fergus	20.9	10.2	213	NC	Lee	25.5	14.0
781	MT	Judith Basin	20.9	47.7	213	NC	Chatham	25.5	29.8
781	MT	Wheatland	20.9	51.1	213	NC	Caswell	25.5	47.6
781	MT	Petroleum	20.9	34.6	216	NC	Catawba	11.1	8.3
817	MT	Beaverhead	22.6	22.6	216	NC	Burke	11.1	4.7
144	NC	New Hanover	4.0	1.2	216	NC	Caldwell	11.1	5.1
144	NC	Brunswick	4.0	6.7	216	NC	Mc Dowell	11.1	31.7
144	NC	Pender	4.0	11.1	216	NC	Alexander	11.1	28.9
148	NC	Forsyth	6.4	5.1	218	NC	Buncombe	4.6	3.8
148	NC	Surry	6.4	2.9	218	NC	Haywood	4.6	3.7
148	NC	Stokes	6.4	9.7	218	NC	Madison	4.6	6.2
148	NC	Yadkin	6.4	5.9	218	NC	Yancey	4.6	2.7
148	NC	Davie	6.4	25.5	218	NC	Mitchell	4.6	15.8
153	NC	Jackson	15.3	11.4	221	NC	Craven	8.9	6.6
153	NC	Macon	15.3	7.7	221	NC	Carteret	8.9	6.4
					221	NC	Pamlico	8.9	5.1

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86—Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
221	NC	Jones	8.9	55.4	627	ND	Pierce	18.0	18.7
224	NC	Moore	11.9	9.5	627	ND	Towner	18.0	16.9
224	NC	Richmond	11.9	13.4	642	ND	Stutsman	10.7	6.9
224	NC	Montgomery	11.9	14.6	642	ND	Wells	10.7	25.1
225	NC	Rutherford	23.3	21.4	642	ND	Foster	10.7	11.1
225	NC	Polk	23.3	34.7	643	ND	Ramsey	18.7	11.5
231	NC	Rowan	18.3	11.8	643	ND	Benson	18.7	24.5
231	NC	Cabarrus	18.3	26.6	643	ND	Eddy	18.7	28.4
231	NC	Stanly	18.3	15.9	650	ND	Barnes	36.3	21.2
236	NC	Gaston	18.1	20.4	650	ND	La Moure	36.3	56.8
236	NC	Cleveland	18.1	7.3	650	ND	Griggs	36.3	50.7
236	NC	Lincoln	18.1	29.1	662	ND	Walsh	24.1	29.8
242	NC	Henderson	18.5	22.2	662	ND	Pembina	24.1	19.8
242	NC	Transylvania	18.5	8.3	662	ND	Cavaler	24.1	18.2
245	NC	Wayne	10.6	4.6	673	ND	Emmons	30.8	36.1
245	NC	Lenoir	10.6	9.9	673	ND	McIntosh	30.8	24.1
245	NC	Duplin	10.6	28.9	686	ND	Richland	25.2	19.8
251	NC	Sampson	24.6	24.6	686	MN	Wilkin	25.2	24.0
256	NC	Columbus	23.4	23.4	686	ND	Sargent	25.2	53.7
260	NC	Iredell	15.3	15.3	690	ND	Stark	7.6	4.8
261	NC	Wilson	8.5	8.5	690	ND	Dunn	7.6	20.7
264	NC	Wilkes	22.1	22.1	690	ND	Golden Valley	7.6	17.1
266	NC	Onslow	5.3	5.3	690	ND	Billings	7.6	4.5
269	NC	Pasquotank	26.2	8.5	540	NE	Lincoln	12.1	5.0
269	NC	Dare	26.2	35.0	540	NE	Keith	12.1	2.9
269	NC	Currituck	26.2	43.2	540	NE	Chase	12.1	12.3
269	NC	Perquimans	26.2	50.1	540	NE	Perkins	12.1	2.5
269	NC	Camden	26.2	13.7	540	NE	Frontier	12.1	58.5
542	ND	Burleigh	7.7	1.3	540	NE	Deuel	12.1	63.3
542	ND	Morton	7.7	3.1	540	NE	Hooker	12.1	12.5
542	ND	Mercer	7.7	8.2	540	NE	Logan	12.1	37.8
542	SD	Corson	7.7	31.5	540	NE	Thomas	12.1	53.7
542	ND	Grant	7.7	35.6	540	NE	Grant	12.1	62.1
542	ND	Sioux	7.7	4.1	540	NE	Mc Pherson	12.1	5.0
542	ND	Kidder	7.7	24.2	540	NE	Arthur	12.1	0.0
542	ND	Logan	7.7	62.9	554	NE	Hall	9.1	4.4
542	ND	Sheridan	7.7	66.3	554	NE	Hamilton	9.1	13.5
542	ND	Oliver	7.7	2.4	554	NE	Merrick	9.1	10.6
546	ND	Cass	4.1	1.3	554	NE	Howard	9.1	3.5
546	MN	Clay	4.1	1.9	554	NE	Sherman	9.1	42.8
546	ND	Traill	4.1	20.2	554	NE	Greeley	9.1	41.6
546	MN	Norman	4.1	22.3	557	NE	Douglas	2.6	0.6
546	ND	Ransom	4.1	16.6	557	NE	Sarpy	2.6	0.5
546	ND	Steele	4.1	39.5	557	IA	Pottawattamie	2.6	4.9
563	ND	Ward	8.0	1.2	557	NE	Cass	2.6	25.2
563	ND	McLean	8.0	50.6	557	IA	Harrison	2.6	15.2
563	ND	Bottineau	8.0	9.5	557	NE	Washington	2.6	10.4
563	ND	Mountrail	8.0	8.5	557	IA	Mills	2.6	20.8
563	ND	McHenry	8.0	18.9	560	NE	Adams	15.1	4.3
563	ND	Renville	8.0	1.4	560	NE	Clay	15.1	43.5
563	ND	Burke	8.0	15.3	560	NE	Nuckolls	15.1	7.9
575	ND	Grand Forks	3.7	1.6	560	KS	Jewell	15.1	60.7
575	MN	Polk	3.7	5.5	560	NE	Webster	15.1	7.1
575	MN	Pennington	3.7	1.8	562	NE	Buffalo	5.4	4.7
575	MN	Marshall	3.7	4.0	562	NE	Phelps	5.4	2.5
575	MN	Kittson	3.7	9.8	562	NE	Kearney	5.4	8.1
575	MN	Red Lake	3.7	1.8	562	NE	Harlan	5.4	8.5
575	ND	Nelson	3.7	32.1	562	NE	Franklin	5.4	13.8
599	ND	Williams	8.4	6.0	564	NE	Scott Bluff	4.6	1.5
599	MT	Richland	8.4	6.0	564	WY	Goshen	4.6	3.0
599	ND	Mckenzie	8.4	18.6	564	NE	Morrill	4.6	12.6
599	ND	Divide	8.4	14.4	564	WY	Niobrara	4.6	24.3
627	ND	Rolette	18.0	18.1	564	NE	Sioux	4.6	30.0
					564	NE	Banner	4.6	16.2
					565	NE	Madison	6.6	4.5

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
565	NE	Wayne	6.6	11.3	55	NJ	Morris	22.5	23.4
565	NE	Antelope	6.6	9.2	55	NJ	Sussex	22.5	17.8
565	NE	Pierce	6.6	4.5	55	NJ	Warren	22.5	25.9
565	NE	Stanton	6.6	11.7	56	NJ	Camden	13.1	12.2
569	NE	Custer	20.6	21.4	56	NJ	Burlington	13.1	13.5
569	NE	Valley	20.6	13.4	56	NJ	Gloucester	13.1	14.5
569	NE	Garfield	20.6	11.2	64	NJ	Middlesex	11.6	9.1
569	NE	Wheeler	20.6	69.1	64	NJ	Union	11.6	17.6
569	NE	Loup	20.6	14.3	64	NJ	Mercer	11.6	4.5
569	NE	Blaine	20.6	16.0	64	NJ	Somerset	11.6	13.2
573	NE	Holt	15.1	10.7	64	NJ	Hunterdon	11.6	18.2
573	NE	Brown	15.1	14.3	84	NJ	Monmouth	14.0	13.6
573	NE	Boyd	15.1	38.8	84	NJ	Ocean	14.0	14.5
573	NE	Rock	15.1	11.6	85	NJ	Bergen	17.7	17.1
573	NE	Keya Paha	15.1	30.8	85	NJ	Passaic	17.7	18.6
579	NE	Lancaster	6.1	1.5	107	NJ	Cumberland	17.6	9.3
579	NE	Saunders	6.1	53.7	107	NJ	Salem	17.6	38.1
579	NE	Seward	6.1	6.4	115	NJ	Essex	10.9	10.5
579	NE	Saline	6.1	14.4	115	NJ	Hudson	10.9	11.4
595	NE	York	20.8	11.5	504	NM	Lea	15.6	6.4
595	NE	Fillmore	20.8	18.7	504	TX	Andrews	15.6	20.2
595	NE	Polk	20.8	50.2	504	TX	Gaines	15.6	39.3
605	NE	Platte	18.2	10.4	504	TX	Yoakum	15.6	31.4
605	NE	Colfax	18.2	19.7	693	NM	Curry	5.3	5.5
605	NE	Butler	18.2	17.5	693	NM	Roosevelt	5.3	4.8
605	NE	Boone	18.2	40.6	695	NM	Bernalillo	3.5	1.2
605	NE	Nance	18.2	38.2	695	NM	Valencia	3.5	7.5
618	NE	Red Willow	28.5	13.2	695	NM	Sandoval	3.5	18.5
618	NE	Furnas	28.5	62.6	695	NM	Socorro	3.5	1.3
618	NE	Hitchcock	28.5	34.4	695	NM	Torrance	3.5	2.0
618	NE	Hayes	28.5	50.0	721	NM	San Miguel	16.8	16.2
630	NE	Gage	21.7	22.1	721	NM	Mora	16.8	5.1
630	NE	Jefferson	21.7	9.6	721	NM	Guadalupe	16.8	25.3
630	NE	Thayer	21.7	36.3	721	NM	Harding	16.8	43.9
640	NE	Richardson	26.1	19.5	733	NM	Otero	6.6	6.3
640	NE	Johnson	26.1	37.4	733	NM	Lincoln	6.6	7.8
640	NE	Pawnee	26.1	31.5	738	NM	Santa Fe	6.7	6.2
649	NE	Dodge	22.8	13.0	738	NM	Rio Arriba	6.7	8.3
649	NE	Cuming	22.8	29.9	738	NM	Taos	6.7	7.5
649	NE	Burt	22.8	59.7	738	NM	Los Alamos	6.7	3.7
661	NE	Cheyenne	12.6	9.8	750	NM	San Juan	5.3	6.4
661	NE	Kimball	12.6	18.2	750	CO	La Plata	5.3	1.6
665	NE	Otoe	37.9	43.9	750	CO	Montezuma	5.3	2.3
665	NE	Nemaha	37.9	26.4	750	CO	Archuleta	5.3	3.7
681	NE	Box Butte	14.6	14.6	750	CO	Dolores	5.3	26.8
682	NE	Garden	35.1	35.1	750	CO	San Juan	5.3	12.5
687	NE	Dawson	21.7	20.1	768	NM	Chaves	5.9	4.9
687	NE	Gosper	21.7	42.9	768	NM	De Baca	5.9	32.8
35	NH	Grafton	11.4	20.3	775	NM	McKinley	12.5	3.9
35	VT	Washington	11.4	11.4	775	AZ	Apache	12.5	20.7
35	VT	Windsor	11.4	5.0	775	NM	Catron	12.5	63.0
35	NH	Sullivan	11.4	11.9	780	NM	Colfax	14.7	14.9
35	VT	Orange	11.4	2.3	780	CO	Las Animas	14.7	14.4
74	NH	Hillsborough	9.6	10.6	807	NM	Union	31.1	31.1
74	NH	Merrimack	9.6	5.5	808	NM	Grant	14.0	5.8
74	NH	Belknap	9.6	6.7	808	NM	Hidalgo	14.0	47.4
74	NH	Carroll	9.6	17.4	821	NM	Quay	17.2	17.2
105	NH	Cheshire	31.8	33.9	822	NM	Eddy	7.4	7.4
105	VT	Windham	31.8	28.4	697	NV	Elko	24.8	24.2
129	NH	Coos	22.1	15.4	697	NV	Lander	24.8	27.2
129	VT	Essex	22.1	57.6	697	NV	Eureka	24.8	25.5
52	NJ	Atlantic	13.9	16.5					
52	NJ	Cape May	13.9	7.3					

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
717	NV	Clark	2.9	2.3	86	NY	Dutchess	22.2	23.9
717	NV	Nye	2.9	28.9	86	NY	Ulster	22.2	19.5
723	NV	Washoe	5.6	2.4	90	NY	Cattaraugus	30.0	31.6
723	NV	Lyon	5.6	39.0	90	NY	Allegany	30.0	26.6
723	NV	Churchill	5.6	1.6	92	NY	Tompkins	9.9	6.3
723	NV	Humboldt	5.6	11.7	92	NY	Cortland	9.9	16.0
723	NV	Mineral	5.6	1.8	103	NY	Chautauqua	15.2	14.2
723	NV	Pershing	5.6	0.0	103	PA	Warren	15.2	18.4
723	CA	Sierra	5.6	48.2	111	NY	Washington	14.2	18.0
723	NV	Storey	5.6	46.2	111	NY	Warren	14.2	7.3
809	NV	White Pine	15.4	15.4	111	VT	Bennington	14.2	18.3
12	NY	Albany	5.3	0.9	130	NY	Rockland	23.2	23.2
12	NY	Saratoga	5.3	13.4	5	OH	Jefferson	8.3	7.5
12	NY	Rensselaer	5.3	8.3	5	OH	Belmont	8.3	3.7
12	NY	Schenectady	5.3	0.8	5	WV	Ohio	8.3	1.8
15	NY	Westchester	18.9	19.4	5	WV	Marshall	8.3	2.4
15	NY	Putnam	18.9	14.6	5	WV	Hancock	8.3	31.1
19	NY	Monroe	2.5	0.3	5	WV	Brooke	8.3	4.9
19	NY	Ontario	2.5	1.0	5	WV	Wetzel	8.3	12.0
19	NY	Wayne	2.5	3.9	5	OH	Monroe	8.3	22.1
19	NY	Livingston	2.5	13.2	5	WV	Tyler	8.3	9.5
19	NY	Orleans	2.5	6.7	275	OH	Montgomery	5.1	1.4
19	NY	Seneca	2.5	21.6	275	OH	Clark	5.1	2.9
19	NY	Yates	2.5	10.9	275	OH	Greene	5.1	1.4
36	NY	Onondaga	3.3	0.8	275	OH	Preble	5.1	58.0
36	NY	Oswego	3.3	5.9	275	OH	Champaign	5.1	34.6
36	NY	Cayuga	3.3	10.4	277	OH	Franklin	2.0	0.7
36	NY	Madison	3.3	9.2	277	OH	Delaware	2.0	7.2
42	NY	Otsego	20.5	14.7	277	OH	Pickaway	2.0	12.3
42	NY	Delaware	20.5	15.2	277	OH	Madison	2.0	6.1
42	NY	Schoharie	20.5	42.6	277	OH	Union	2.0	17.7
51	NY	St. Lawrence	6.8	5.8	278	OH	Athens	16.9	15.9
51	NY	Clinton	6.8	3.3	278	OH	Jackson	16.9	29.2
51	NY	Franklin	6.8	2.5	278	OH	Gallia	16.9	7.1
51	NY	Essex	6.8	24.9	278	WV	Mason	16.9	11.6
54	NY	Fulton	19.7	11.6	278	OH	Meigs	16.9	12.8
54	NY	Montgomery	19.7	24.6	278	OH	Vinton	16.9	33.0
54	NY	Hamilton	19.7	62.0	283	OH	Lucas	4.4	0.7
57	NY	Erie	2.7	1.0	283	OH	Wood	4.4	8.2
57	NY	Niagara	2.7	2.7	283	OH	Ottawa	4.4	26.7
57	NY	Genesee	2.7	23.7	283	OH	Fulton	4.4	8.2
57	NY	Wyoming	2.7	7.9	283	OH	Henry	4.4	21.7
60	NY	Broome	17.8	2.3	284	OH	Cuyahoga	1.4	0.4
60	NY	Tioga	17.8	49.9	284	OH	Lorain	1.4	0.8
60	NY	Chenango	17.8	35.0	284	OH	Lake	1.4	2.5
60	PA	Susquehanna	17.8	33.5	284	OH	Medina	1.4	10.7
69	NY	Jefferson	4.8	3.1	284	OH	Geauga	1.4	4.1
69	NY	Lewis	4.8	10.5	288	OH	Hamilton	5.3	1.0
71	NY	Steuben	11.6	13.7	288	OH	Clermont	5.3	1.2
71	NY	Chemung	11.6	6.7	288	KY	Kenton	5.3	0.4
71	NY	Schuyler	11.6	25.1	288	OH	Warren	5.3	50.1
78	NY	Kings	3.2	3.5	288	KY	Campbell	5.3	0.4
78	NY	New York	3.2	2.0	288	IN	Boone	5.3	0.5
78	NY	Bronx	3.2	3.7	288	IN	Dearborn	5.3	7.6
78	NY	Richmond	3.2	2.4	288	OH	Brown	5.3	13.2
79	NY	Orange	21.8	23.4	288	OH	Adams	5.3	27.4
79	NY	Sullivan	21.8	14.0	288	KY	Grant	5.3	15.7
80	NY	Oneida	9.3	10.5	288	KY	Pendleton	5.3	30.8
80	NY	Herkimer	9.3	4.2	288	IN	Switzerland	5.3	49.6
81	NY	Queens	10.6	20.1	288	IN	Ohio	5.3	5.8
81	NY	Nassau	10.6	4.7	288	KY	Gallatin	5.3	8.0
81	NY	Suffolk	10.6	1.4	299	OH	Mahoning	7.9	4.4
					299	OH	Trumbull	7.9	7.4
					299	OH	Columbiana	7.9	17.3
					314	OH	Allen	7.7	2.7

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			Area	County				Area	County
314	OH	Auglaize	7.7	7.0	419	OK	Oklahoma	3.2	1.9
314	OH	Mercer	7.7	6.1	419	OK	Cleveland	3.2	3.1
314	OH	Putnam	7.7	13.3	419	OK	Canadian	3.2	7.0
314	OH	Hardin	7.7	19.0	419	OK	Logan	3.2	16.5
314	OH	Van Wert	7.7	12.7	419	OK	McClain	3.2	15.2
331	OH	Stark	9.3	7.0	443	OK	Custer	13.8	9.5
331	OH	Tuscarawas	9.3	11.4	443	OK	Beckham	13.8	8.4
331	OH	Carroll	9.3	6.2	443	OK	Blaine	13.8	25.7
331	OH	Harrison	9.3	62.8	443	OK	Washita	13.8	15.1
334	OH	Fairfield	31.0	33.5	443	OK	Dewey	13.8	34.3
334	OH	Hocking	31.0	22.1	443	OK	Roger Mills	13.8	8.7
343	OH	Richland	9.8	9.8	448	OK	Garfield	6.6	2.6
343	OH	Marion	9.8	6.8	448	OK	Woods	6.6	9.2
343	OH	Crawford	9.8	7.0	448	OK	Major	6.6	20.1
343	OH	Morrow	9.8	22.4	448	OK	Alfalfa	6.6	16.1
347	OH	Defiance	15.0	11.5	448	OK	Grant	6.6	18.3
347	OH	Williams	15.0	10.0	455	OK	Carter	22.5	10.6
347	OH	Paulding	15.0	30.7	455	OK	Murray	22.5	42.2
353	OH	Summit	13.1	10.4	455	OK	Marshall	22.5	40.3
353	OH	Portage	13.1	23.4	455	OK	Johnston	22.5	51.0
356	OH	Clinton	26.4	27.8	455	OK	Love	22.5	17.3
356	OH	Highland	26.4	25.9	458	OK	Okmulgee	31.8	25.4
356	OH	Fayette	26.4	25.1	458	OK	Okfuskee	31.8	54.9
358	OH	Hancock	18.9	13.6	464	OK	Payne	20.3	9.8
358	OH	Seneca	18.9	20.4	464	OK	Pawnee	20.3	52.5
358	OH	Wyandot	18.9	29.8	464	OK	Noble	20.3	27.7
365	OH	Butler	31.5	30.8	468	OK	McCurtain	33.0	35.9
365	IN	Fayette	31.5	18.4	468	AR	Polk	33.0	29.3
365	IN	Franklin	31.5	58.9	468	AR	Sevier	33.0	27.3
365	IN	Union	31.5	31.9	471	OK	Muskogee	21.7	12.8
366	OH	Muskingum	13.1	4.7	471	OK	Cherokee	21.7	9.0
366	OH	Guernsey	13.1	5.8	471	OK	Sequoyah	21.7	46.1
366	OH	Perry	13.1	30.3	471	OK	Adair	21.7	24.0
366	OH	Morgan	13.1	34.7	471	OK	McIntosh	21.7	37.6
366	OH	Noble	13.1	26.4	474	OK	Texas	30.5	33.6
375	OH	Erie	14.8	13.3	474	OK	Cimarron	30.5	16.1
375	OH	Sandusky	14.8	15.4	474	KS	Morton	30.5	27.0
375	OH	Huron	14.8	15.9	478	OK	Comanche	14.1	3.7
376	OH	Wayne	22.6	27.2	478	OK	Grady	14.1	37.4
376	OH	Holmes	22.6	11.4	478	OK	Caddo	14.1	22.0
378	OH	Miami	29.4	35.3	478	OK	Tillman	14.1	45.5
378	OH	Darke	29.4	26.5	478	OK	Cotton	14.1	29.3
378	OH	Shelby	29.4	21.9	479	OK	Pottawatomie	22.8	25.3
381	OH	Licking	30.6	31.2	479	OK	Pontotoc	22.8	5.5
381	OH	Knox	30.6	28.5	479	OK	Lincoln	22.8	52.7
394	OH	Ross	19.7	19.7	479	OK	Seminole	22.8	8.5
397	OH	Coshocton	27.0	27.0	479	OK	Hughes	22.8	22.8
399	OH	Ashtabula	23.5	23.5	479	OK	Coal	22.8	21.5
404	OH	Ashland	20.5	20.5	481	OK	Washington	33.9	10.4
405	OH	Logan	23.8	23.8	481	OK	Osage	33.9	63.7
406	OH	Scioto	17.7	5.1	481	OK	Nowata	33.9	37.6
406	OH	Pike	17.7	53.9	483	OK	Jackson	14.4	8.8
406	KY	Lewis	17.7	29.7	483	OK	Kiowa	14.4	31.0
407	OK	Woodward	16.7	9.1	483	OK	Greer	14.4	10.7
407	OK	Ellis	16.7	13.9	483	OK	Harmon	14.4	32.8
407	OK	Harper	16.7	8.4	499	OK	Ottawa	36.8	35.6
407	TX	Lipscomb	16.7	65.2	499	OK	Craig	36.8	40.0
410	OK	Tulsa	3.0	0.9	513	OK	Stephens	30.0	25.9
410	OK	Creek	3.0	9.0	513	OK	Jefferson	30.0	59.0
410	OK	Rogers	3.0	2.2	524	OK	Garvin	53.3	53.3
410	OK	Wagoner	3.0	15.5	532	OK	Kingfisher	46.1	46.1
410	OK	Mayes	3.0	12.9	534	OK	Kay	11.4	11.4
					696	OR	Multnomah	1.9	0.5

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86—Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
696	OR	Washington	1.9	0.4	37	PA	Adams	16.6	11.1
696	OR	Clackamas	1.9	2.5	40	PA	Northumberland	16.8	21.5
696	WA	Clark	1.9	1.0	40	PA	Snyder	16.8	15.5
696	OR	Yamhill	1.9	6.4	40	PA	Union	16.8	2.6
696	OR	Columbia	1.9	22.0	40	PA	Montour	16.8	20.3
696	OR	Clatsop	1.9	5.3	41	PA	Cambria	4.5	1.9
696	WA	Skamania	1.9	44.5	41	PA	Blair	4.5	2.6
710	OR	Marion	15.5	14.9	41	PA	Somerset	4.5	6.1
710	OR	Polk	15.5	18.6	41	PA	Bedford	4.5	16.2
718	OR	Umatilla	6.5	6.4	43	PA	Allegheny	2.6	0.4
718	WA	Walla Walla	6.5	5.4	43	PA	Westmoreland	2.6	1.8
718	OR	Morrow	6.5	9.6	43	PA	Washington	2.6	4.3
718	WA	Columbia	6.5	10.7	43	PA	Fayette	2.6	9.2
722	OR	Deschutes	2.7	1.6	43	PA	Butler	2.6	11.5
722	OR	Crook	2.7	3.6	43	PA	Armstrong	2.6	8.8
722	OR	Jefferson	2.7	2.1	59	PA	Lycoming	6.3	5.8
722	OR	Harney	2.7	10.1	59	PA	Clinton	6.3	8.4
722	OR	Wheeler	2.7	28.6	62	PA	Franklin	8.2	6.2
751	OR	Union	6.6	3.1	62	MD	Washington	8.2	9.9
751	OR	Baker	6.6	11.1	62	PA	Fulton	8.2	9.9
751	OR	Wallowa	6.6	9.2	72	PA	Lehigh	6.9	2.1
755	OR	Wasco	10.4	9.6	72	PA	Northampton	6.9	7.1
755	OR	Hood River	10.4	11.0	72	PA	Monroe	6.9	14.7
755	WA	Klickitat	10.4	8.5	72	PA	Carbon	6.9	23.5
755	OR	Sherman	10.4	8.9	75	PA	Luzerne	9.5	6.2
755	OR	Gilliam	10.4	31.8	75	PA	Columbia	9.5	26.7
763	OR	Linn	10.5	13.1	77	PA	Venango	16.9	10.3
763	OR	Benton	10.5	6.5	77	PA	Clarion	16.9	23.7
766	OR	Coos	11.7	7.8	77	PA	Forest	16.9	49.1
766	CA	Del Norte	11.7	25.7	106	PA	Erie	3.7	1.3
766	OR	Curry	11.7	11.2	106	PA	Mercer	3.7	7.6
770	OR	Jackson	3.7	0.9	106	PA	Crawford	3.7	7.2
770	OR	Josephine	3.7	1.7	108	PA	Beaver	27.5	34.5
770	CA	Siskiyou	3.7	16.1	108	PA	Lawrence	27.5	14.1
774	OR	Klamath	9.7	7.9	109	PA	Berks	18.1	16.5
774	CA	Modoc	9.7	15.7	109	PA	Schuylkill	18.1	22.0
774	OR	Lake	9.7	16.9	110	PA	Mifflin	20.9	5.3
795	OR	Lincoln	29.3	31.9	110	PA	Huntingdon	20.9	30.8
795	OR	Tillamook	29.3	24.8	110	PA	Juniata	20.9	35.7
799	OR	Lane	2.4	1.3	119	PA	Bradford	16.7	14.5
799	OR	Douglas	2.4	5.2	119	PA	Sullivan	16.7	48.7
828	OR	Grant	16.6	16.6	120	PA	Tioga	28.2	28.2
9	PA	Dauphin	3.4	1.9	122	PA	Indiana	37.9	37.9
9	PA	Cumberland	3.4	4.1	131	PA	Lancaster	6.6	6.6
9	PA	Lebanon	3.4	6.4	24	RI	Providence	5.4	3.5
9	PA	Perry	3.4	3.0	24	CT	New London	5.4	11.2
13	PA	Mc Kean	18.4	18.4	24	RI	Kent	5.4	1.2
13	PA	Elk	18.4	18.2	24	RI	Washington	5.4	3.2
13	PA	Potter	18.4	23.5	24	RI	Bristol	5.4	12.6
13	PA	Cameron	18.4	6.1	24	RI	Bristol	5.4	12.6
18	PA	Centre	8.3	10.0	159	SC	Orangeburg	16.5	12.5
18	PA	Clearfield	8.3	7.8	159	SC	Bamberg	16.5	11.4
18	PA	Jefferson	8.3	5.6	159	SC	Calhoun	16.5	25.7
26	PA	Philadelphia	2.9	0.6	159	SC	Allendale	16.5	44.7
26	PA	Montgomery	2.9	2.3	167	SC	Richland	1.9	0.9
26	PA	Delaware	2.9	1.0	167	SC	Lexington	1.9	1.0
26	PA	Bucks	2.9	9.7	167	SC	Kershaw	1.9	6.1
26	PA	Chester	2.9	10.2	167	SC	Newberry	1.9	8.4
29	PA	Lackawanna	10.8	4.1	167	SC	Fairfield	1.9	5.6
29	PA	Wayne	10.8	8.8	185	SC	Sumter	10.9	8.1
29	PA	Wyoming	10.8	22.0	185	SC	Clarendon	10.9	9.9
29	PA	Pike	10.8	66.6	185	SC	Lee	10.9	29.1
37	PA	York	16.6	17.9	188	SC	Florence	9.8	3.0

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
188	SC	Darlington	9.8	2.6	581	SD	Faulk	10.7	13.7
188	SC	Chesterfield	9.8	27.8	582	SD	Shannon	13.4	8.8
188	SC	Marlboro	9.8	26.9	582	NE	Dawes	13.4	10.5
191	SC	Greenwood	18.3	1.6	582	NE	Sheridan	13.4	12.8
191	SC	Laurens	18.3	21.7	582	SD	Jackson	13.4	46.7
191	SC	Abbeville	18.3	13.9	582	SD	Bennett	13.4	12.5
191	SC	Edgefield	18.3	47.8	594	SD	Codlington	18.7	4.3
191	SC	Saluda	18.3	41.0	594	SD	Day	18.7	53.2
191	SC	McCormick	18.3	12.5	594	SD	Hamlin	18.7	18.5
200	SC	Greenville	4.7	1.4	594	SD	Deuel	18.7	36.2
200	SC	Pickens	4.7	8.0	594	SD	Clark	18.7	20.5
200	SC	Oconee	4.7	20.8	607	SD	Lawrence	22.2	17.7
201	SC	Charleston	1.9	0.9	607	SD	Butte	22.2	17.8
201	SC	Berkeley	1.9	1.1	607	SD	Harding	22.2	58.0
201	SC	Dorchester	1.9	4.8	607	MT	Carter	22.2	47.7
201	SC	Colleton	1.9	7.5	608	SD	Roberts	22.4	29.7
203	SC	Marion	15.8	16.6	608	SD	Grant	22.4	23.9
203	SC	Dillon	15.8	15.0	608	MN	Big Stone	22.4	6.8
207	SC	Spartanburg	9.7	10.0	608	MN	Traverse	22.4	20.7
207	SC	Cherokee	9.7	12.6	609	SD	Todd	30.9	27.1
207	SC	Union	9.7	2.6	609	NE	Cherry	30.9	35.8
210	SC	Anderson	21.4	20.1	609	SD	Mellette	30.9	40.1
210	GA	Stephens	21.4	21.2	626	SD	Beadle	8.5	5.1
210	GA	Hart	21.4	14.3	626	SD	Hand	8.5	14.6
210	GA	Elbert	21.4	29.6	626	SD	Jerauld	8.5	22.2
210	GA	Franklin	21.4	30.0	629	SD	Davison	20.2	7.9
217	SC	Beaufort	12.2	6.4	629	SD	Hutchinson	20.2	28.5
217	SC	Hampton	12.2	25.2	629	SD	Douglas	20.2	19.5
217	SC	Jasper	12.2	28.5	629	SD	Miner	20.2	58.2
233	SC	Aiken	69.9	74.7	629	SD	Aurora	20.2	17.7
233	SC	Barnwell	69.9	44.3	629	SD	Hanson	20.2	19.4
239	SC	York	20.8	21.6	629	SD	Sanborn	20.2	44.2
239	SC	Lancaster	20.8	28.2	638	SD	Hughes	18.4	6.0
239	SC	Chester	20.8	7.1	638	SD	Walworth	18.4	22.1
240	SC	Georgetown	28.5	17.3	638	SD	Dewey	18.4	22.3
240	SC	Williamsburg	28.5	41.8	638	SD	Potter	18.4	16.9
250	SC	Horry	6.4	6.4	638	SD	Stanley	18.4	5.4
538	SD	Pennington	5.1	2.1	638	SD	Ziebach	18.4	29.1
538	SD	Meade	5.1	13.9	638	SD	Campbell	18.4	55.5
538	SD	Fall River	5.1	12.4	638	SD	Sully	18.4	6.8
538	SD	Custer	5.1	1.4	638	SD	Hyde	18.4	49.3
538	SD	Haakon	5.1	24.7	638	SD	Jones	18.4	24.1
541	SD	Minnehaha	4.1	1.1	646	SD	Tripp	15.6	11.6
541	SD	Lincoln	4.1	5.8	646	SD	Gregory	15.6	20.6
541	SD	Turner	4.1	19.7	652	SD	Brookings	22.9	17.8
541	SD	Moody	4.1	22.3	652	SD	Lake	22.9	28.2
541	SD	Mc Cook	4.1	25.3	652	SD	Kingsbury	22.9	32.1
556	SD	Perkins	10.2	10.3	676	SD	Brule	41.7	48.1
556	ND	Bowman	10.2	8.0	676	SD	Lyman	41.7	46.1
556	ND	Hettinger	10.2	19.8	146	TN	Buffalo	41.7	26.4
556	ND	Adams	10.2	1.1	146	TN	Shelby	2.3	0.4
556	ND	Slope	10.2	15.6	146	MS	De Soto	2.3	0.7
571	SD	Yankton	17.2	2.2	146	TN	Tipton	2.3	2.7
571	SD	Clay	17.2	18.8	146	MS	Marshall	2.3	31.5
571	NE	Cedar	17.2	39.2	146	MS	Panola	2.3	23.9
571	NE	Knox	17.2	32.1	146	TN	Fayette	2.3	4.2
571	SD	Charles Mix	17.2	10.4	146	MS	Tate	2.3	3.2
571	SD	Bon Homme	17.2	7.6	149	TN	Putnam	9.9	6.0
581	SD	Brown	10.7	3.0	149	TN	Cumberland	9.9	6.5
581	SD	Spink	10.7	29.8	149	TN	White	9.9	12.8
581	ND	Dickey	10.7	19.6	149	TN	Overton	9.9	2.8
581	SD	Marshall	10.7	31.2	149	TN	Fentress	9.9	4.3
581	SD	Edmunds	10.7	4.8	149	TN	Bledsoe	9.9	35.1
581	SD	Mc Pherson	10.7	4.8	149	TN	Jackson	9.9	11.0
581	SD				149	TN	Clay	9.9	25.6

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			Area	County				Area	County
149	TN	Van Buren	9.9	33.2	209	TN	Mc Minn	20.9	10.4
149	TN	Pickett	9.9	7.0	209	TN	Monroe	20.9	39.1
151	TN	Madison	7.3	3.5	209	GA	Fannin	20.9	28.1
151	TN	Gibson	7.3	8.7	209	TN	Polk	20.9	12.7
151	TN	Carroll	7.3	11.2	209	TN	Meigs	20.9	20.1
151	TN	Mc Nairy	7.3	11.4	237	TN	Dickson	44.9	49.0
151	TN	Henderson	7.3	1.5	237	TN	Hickman	44.9	58.5
151	TN	Hardin	7.3	14.8	237	TN	Humphreys	44.9	28.4
151	TN	Crockett	7.3	12.3	237	TN	Houston	44.9	27.5
151	TN	Chester	7.3	4.5	243	TN	Roane	48.1	48.4
151	TN	Decatur	7.3	8.9	243	TN	Rhea	48.1	42.4
152	TN	Maury	17.2	9.9	243	TN	Morgan	48.1	56.9
152	TN	Giles	17.2	19.9	246	TN	Greene	19.7	11.0
152	TN	Marshall	17.2	26.8	246	TN	Cocke	19.7	35.6
152	TN	Lewis	17.2	12.3	255	TN	Hardeman	66.5	66.5
152	TN	Perry	17.2	47.1	265	TN	Haywood	33.3	33.3
155	TN	Hamilton	1.9	0.9	270	TN	Dyer	16.8	11.9
155	GA	Walker	1.9	2.9	270	TN	Lauderdale	16.8	23.2
155	GA	Catoosa	1.9	4.7	414	TX	Tom Green	3.3	1.3
155	TN	Marion	1.9	8.6	414	TX	Reagan	3.3	20.5
155	GA	Dade	1.9	0.9	414	TX	Sutton	3.3	6.8
155	TN	Sequatchie	1.9	4.4	414	TX	Crockett	3.3	9.5
157	TN	Davidson	1.5	0.7	414	TX	Coke	3.3	16.0
157	TN	Sumner	1.5	1.2	414	TX	Schleicher	3.3	1.9
157	TN	Williamson	1.5	1.7	414	TX	Irion	3.3	3.8
157	TN	Wilson	1.5	2.5	414	TX	Sterling	3.3	5.4
157	TN	Robertson	1.5	2.2	416	TX	Taylor	6.1	2.8
157	TN	Cheatham	1.5	9.1	416	TX	Eastland	6.1	21.4
157	TN	Macon	1.5	8.6	416	TX	Callahan	6.1	7.8
157	TN	Smith	1.5	8.0	416	TX	Stephens	6.1	16.1
157	TN	Trousdale	1.5	0.9	416	TX	Shackelford	6.1	11.0
158	TN	Knox	2.1	0.8	416	TX	Throckmorton	6.1	68.8
158	TN	Blount	2.1	1.1	421	TX	Harris	1.5	0.7
158	TN	Anderson	2.1	2.7	421	TX	Galveston	1.5	0.4
158	TN	Sevier	2.1	2.1	421	TX	Fort Bend	1.5	2.5
158	TN	Loudon	2.1	4.5	421	TX	Brazoria	1.5	3.0
158	TN	Scott	2.1	20.7	421	TX	Liberty	1.5	10.3
158	TN	Union	2.1	2.5	421	TX	Waller	1.5	17.7
163	TN	Washington	8.4	9.8	421	TX	Austin	1.5	25.1
163	TN	Carter	8.4	7.5	421	TX	Chambers	1.5	14.9
163	TN	Unicoi	8.4	2.4	421	TX	San Jacinto	1.5	51.0
173	TN	Montgomery	15.6	7.8	422	TX	Wichita	5.7	2.5
173	KY	Christian	15.6	21.2	422	TX	Montague	5.7	31.2
173	KY	Caldwell	15.6	22.0	422	TX	Clay	5.7	3.1
173	KY	Todd	15.6	37.2	422	TX	Archer	5.7	10.5
173	KY	Trigg	15.6	12.5	422	TX	Baylor	5.7	12.9
173	TN	Stewart	15.6	26.3	422	TX	Lubbock	3.4	0.9
176	TN	Sullivan	15.4	14.8	425	TX	Hockley	3.4	1.9
176	VA	Washington	15.4	9.3	425	TX	Lamb	3.4	14.1
176	TN	Hawkins	15.4	25.3	425	TX	Terry	3.4	13.7
176	VA	Russell	15.4	19.7	425	TX	Bailey	3.4	14.8
176	VA	Scott	15.4	11.4	425	TX	Crosby	3.4	16.6
186	TN	Hamblen	32.9	18.8	425	TX	Lynn	3.4	8.8
186	TN	Jefferson	32.9	48.1	425	TX	Garza	3.4	1.4
186	TN	Grainger	32.9	53.3	425	TX	Cochran	3.4	3.8
186	TN	Hancock	32.9	25.1	425	TX	Dickens	3.4	31.6
194	TN	Rutherford	26.6	30.0	426	TX	Bexar	1.6	0.7
194	TN	Warren	26.6	18.3	426	TX	Atascosa	1.6	1.1
194	TN	De Kalb	26.6	28.8	426	TX	Medina	1.6	3.3
194	TN	Cannon	26.6	11.5	426	TX	Wilson	1.6	16.6
199	TN	Coffee	15.9	14.2	426	TX	Kendall	1.6	30.5
199	TN	Franklin	15.9	5.7	426	TX	Karnes	1.6	31.6
199	TN	Bedford	15.9	25.0	426	TX	Bandera	1.6	31.7
199	TN	Grundy	15.9	28.4	426	TX	Mc Mullen	1.6	25.6
199	TN	Moore	15.9	12.1	428	TX	Midland	7.5	7.3
209	TN	Bradley	20.9	19.4					

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			Area	County				Area	County
428	TX	Howard	7.5	6.0	461	TX	Brown	14.4	9.4
428	TX	Martin	7.5	12.8	461	TX	Coleman	14.4	22.9
428	TX	Glasscock	7.5	14.8	461	TX	San Saba	14.4	34.7
428	TX	Borden	7.5	60.0	461	TX	Mills	14.4	19.0
430	TX	Dallas	4.6	4.4	462	TX	Wilbarger	29.8	28.3
430	TX	Collin	4.6	3.5	462	TX	Hardeman	29.8	33.8
430	TX	Ellis	4.6	9.3	462	TX	Foard	29.8	30.4
430	TX	Kaufman	4.6	7.2	463	TX	Victoria	4.8	1.4
430	TX	Rockwall	4.6	5.0	463	TX	Calhoun	4.8	7.2
432	TX	Cameron	2.9	2.9	463	TX	De Witt	4.8	3.7
432	TX	Willacy	2.9	2.1	463	TX	Lavaca	4.8	10.8
434	TX	Travis	2.3	0.9	463	TX	Jackson	4.8	15.8
434	TX	Williamson	2.3	4.2	463	TX	Goliad	4.8	9.8
434	TX	Hays	2.3	4.8	465	TX	Brazos	10.8	3.7
434	TX	Bastrop	2.3	6.2	465	TX	Grimes	10.8	33.4
434	TX	Caldwell	2.3	7.7	465	TX	Robertson	10.8	16.1
434	TX	Burnet	2.3	8.5	465	TX	Burleson	10.8	33.8
434	TX	Llano	2.3	14.0	466	TX	Jones	41.2	50.7
435	TX	Tarrant	6.3	6.5	466	TX	Haskell	41.2	23.7
435	TX	Johnson	6.3	4.0	466	TX	Knox	41.2	32.1
435	TX	Parker	6.3	4.1	466	TX	Stonewall	41.2	34.0
435	TX	Hood	6.3	4.5	466	TX	Kent	41.2	62.5
435	TX	Somervell	6.3	23.5	470	TX	Kerr	15.9	9.0
437	TX	Hale	28.3	28.1	470	TX	Gillespie	15.9	8.1
437	TX	Swisher	28.3	28.3	470	TX	Blanco	15.9	59.2
437	TX	Floyd	28.3	25.5	470	TX	Kimble	15.9	14.7
437	TX	Briscoe	28.3	38.7	470	TX	Mason	15.9	27.6
437	TX	Motley	28.3	40.4	470	TX	Real	15.9	53.9
439	TX	Titus	12.5	3.5	470	TX	Edwards	15.9	35.9
439	TX	Morris	12.5	26.2	472	TX	Walker	22.6	15.1
439	TX	Camp	12.5	11.8	472	TX	Trinity	22.6	36.2
439	TX	Franklin	12.5	20.8	472	TX	Madison	22.6	40.5
440	TX	Nueces	3.4	1.6	473	TX	Grayson	12.6	7.6
440	TX	San Patricio	3.4	1.9	473	OK	Bryan	12.6	10.2
440	TX	Bee	3.4	12.8	473	TX	Fannin	12.6	26.1
440	TX	Aransas	3.4	2.0	473	OK	Atoka	12.6	38.0
440	TX	Live Oak	3.4	17.7	476	TX	Childress	22.4	5.2
440	TX	Refugio	3.4	38.9	476	TX	Hall	22.4	14.6
442	TX	Nacogdoches	15.8	10.6	476	TX	Donley	22.4	56.1
442	TX	Shelby	15.8	22.1	476	TX	Collingsworth	22.4	34.7
442	TX	Sabine	15.8	30.8	476	TX	Cottle	22.4	10.3
442	TX	San Augustine	15.8	16.2	476	TX	King	22.4	68.7
450	TX	Jefferson	15.7	14.3	477	TX	Mc Lennan	10.8	6.6
450	TX	Orange	15.7	16.2	477	TX	Hill	10.8	24.1
450	TX	Hardin	15.7	15.9	477	TX	Limestone	10.8	19.6
450	TX	Jasper	15.7	20.5	477	TX	Falls	10.8	34.7
450	TX	Tyler	15.7	22.4	480	TX	Ector	6.4	5.0
450	TX	Newton	15.7	22.6	480	TX	Pecos	6.4	9.9
453	TX	Potter	3.0	1.9	480	TX	Upton	6.4	14.8
453	TX	Randall	3.0	1.4	480	TX	Crane	6.4	9.9
453	TX	Hutchinson	3.0	2.5	480	TX	Terrell	6.4	49.5
453	TX	Moore	3.0	1.8	480	TX	Loving	6.4	50.0
453	TX	Carson	3.0	32.4	482	TX	Mc Culloch	41.6	32.6
453	TX	Dallam	3.0	17.2	482	TX	Concho	41.6	75.3
453	TX	Hartley	3.0	3.1	482	TX	Menard	41.6	47.5
453	TX	Sherman	3.0	14.8	484	TX	Gregg	12.7	4.7
453	TX	Oldham	3.0	5.4	484	TX	Harrison	12.7	16.0
453	TX	Armstrong	3.0	4.8	484	TX	Rusk	12.7	16.3
456	TX	Bell	3.6	2.0	484	TX	Upshur	12.7	20.0
456	TX	Coryell	3.6	4.9	484	TX	Panola	12.7	28.7
456	TX	Milam	3.6	16.1	484	TX	Marion	12.7	24.9
456	TX	Lampasas	3.6	14.2	485	TX	Palo Pinto	31.2	28.3
460	TX	Smith	16.5	4.9	485	TX	Young	31.2	30.9
460	TX	Henderson	16.5	24.1	485	TX	Jack	31.2	42.0
460	TX	Van Zandt	16.5	45.9	486	TX	Nolan	24.0	19.8
460	TX	Wood	16.5	44.7					

Table III. List of obstetric service areas for 800-unlinked solution and percent of hospital births by residents outside areas in 1984-86--Con.

800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of--		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of--	
			Area	County				Area	County
486	TX	Mitchell	24.0	31.9	520	TX	Anderson	30.8	20.4
486	TX	Fisher	24.0	25.0	520	TX	Houston	30.8	30.5
488	TX	Jim Wells	22.5	30.1	520	TX	Leon	30.8	63.5
488	TX	Kleberg	22.5	16.0	521	TX	Fayette	38.2	38.1
488	TX	Duval	22.5	20.5	521	TX	Colorado	38.2	38.3
488	TX	Brooks	22.5	6.0	523	TX	Brewster	9.6	6.2
488	TX	Jim Hogg	22.5	41.0	523	TX	Presidio	9.6	7.2
488	TX	Kenedy	22.5	54.1	523	TX	Culberson	9.6	17.4
490	TX	Angelina	18.5	7.0	523	TX	Jeff Davis	9.6	10.3
490	TX	Polk	18.5	45.9	526	TX	Cherokee	52.9	52.9
491	TX	Gray	21.4	19.2	527	TX	Reeves	29.2	29.2
491	TX	Wheeler	21.4	20.1	528	TX	Frio	46.5	45.4
491	TX	Hemphill	21.4	31.8	528	TX	La Salle	46.5	49.4
491	TX	Roberts	21.4	29.5	529	TX	Dawson	28.7	28.7
492	TX	Bosque	38.1	34.4	530	TX	Scurry	39.6	39.6
492	TX	Hamilton	38.1	45.5	531	TX	Montgomery	38.5	38.5
494	TX	Lamar	16.7	6.8	533	TX	Runnels	47.9	47.9
494	OK	Pittsburg	16.7	12.7	536	TX	Val Verde	4.8	4.3
494	OK	Choctaw	16.7	25.9	536	TX	Kinney	4.8	20.7
494	TX	Red River	16.7	49.0	537	TX	Webb	2.8	1.5
494	OK	Pushmataha	16.7	16.9	537	TX	Zapata	2.8	25.1
494	OK	Latimer	16.7	21.3	709	UT	Cache	8.8	3.1
495	TX	Guadalupe	27.8	30.0	709	UT	Box Elder	8.8	19.9
495	TX	Comal	27.8	26.3	709	ID	Franklin	8.8	5.4
495	TX	Gonzales	27.8	24.6	709	ID	Bear Lake	8.8	13.5
498	TX	Hunt	21.7	25.0	709	ID	Oneida	8.8	19.1
498	TX	Hopkins	21.7	12.2	712	UT	Utah	4.0	3.8
498	TX	Rains	21.7	27.1	712	UT	Sanpete	4.0	5.7
498	TX	Delta	21.7	33.7	712	UT	Millard	4.0	8.2
500	TX	Bowie	8.6	4.8	712	UT	Juab	4.0	3.3
500	AR	Miller	8.6	3.3	715	UT	Salt Lake	3.6	3.0
500	TX	Cass	8.6	24.1	715	UT	Tooele	3.6	5.9
500	AR	Little River	8.6	12.7	715	UT	Summit	3.6	18.6
501	TX	Ochiltree	29.5	19.9	715	UT	Wasatch	3.6	21.6
501	TX	Hansford	29.5	48.6	729	UT	Uintah	11.3	5.4
502	TX	Deaf Smith	36.4	19.3	729	UT	Duchesne	11.3	19.2
502	TX	Parker	36.4	64.6	729	UT	Daggett	11.3	46.3
502	TX	Castro	36.4	48.3	739	UT	Washington	3.6	2.2
503	TX	Erath	27.3	26.8	739	UT	Iron	3.6	4.0
503	TX	Comanche	27.3	28.1	739	UT	Beaver	3.6	4.8
506	TX	Ward	33.9	34.1	739	NV	Lincoln	3.6	18.2
506	TX	Winkler	33.9	33.6	742	UT	Davis	11.8	18.5
507	TX	Maverick	12.0	5.0	742	UT	Weber	11.8	2.0
507	TX	Uvalde	12.0	26.1	742	WY	Uinta	11.8	22.8
507	TX	Zavala	12.0	8.3	742	UT	Morgan	11.8	3.4
507	TX	Dimmit	12.0	11.3	742	UT	Rich	11.8	51.7
508	TX	El Paso	0.7	0.3	805	UT	Sevier	27.9	23.6
508	NM	Dona Ana	0.7	1.1	805	UT	Wayne	27.9	52.0
508	NM	Luna	0.7	5.2	805	UT	Piute	27.9	46.7
508	NM	Sierra	0.7	15.7	825	UT	Grand	11.5	11.5
508	TX	Hudspeth	0.7	19.1	829	UT	Carbon	12.4	7.5
509	TX	Hidalgo	3.1	3.3	829	UT	Emery	12.4	20.8
509	TX	Starr	3.1	1.3	1	VA	Fairfax	18.3	13.4
512	TX	Washington	25.3	12.9	1	VA	Arlington	18.3	32.1
512	TX	Lee	25.3	48.5	1	VA	Alexandria City	18.3	34.8
514	TX	Denton	37.0	39.1	1	VA	Loudoun	18.3	7.1
514	TX	Wise	37.0	35.2	2	VA	Henrico	4.7	0.4
514	TX	Cooke	37.0	19.6	2	VA	Chesterfield	4.7	0.5
516	TX	Navarro	17.5	13.1	2	VA	Dinwiddie	4.7	0.4
516	TX	Freestone	17.5	29.9	2	VA	Hanover	4.7	0.8
519	TX	Matagorda	19.4	15.3	2	VA	Prince George	4.7	0.6
519	TX	Wharton	19.4	24.2	2	VA	Prince George	4.7	0.6

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800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—		800-unlinked area no.	State	County	Percent of hospital births outside 800-unlinked area by residents of—	
			Area	County				Area	County
2	VA	Caroline	4.7	31.7	58	WV	Morgan	15.8	26.1
2	VA	Brunswick	4.7	18.5	58	VA	Clarke	15.8	25.8
2	VA	Westmoreland	4.7	47.7	58	WV	Hardy	15.8	57.1
2	VA	Greensville	4.7	11.4	68	VA	Henry	16.2	14.1
2	VA	Nottoway	4.7	18.6	68	VA	Patrick	16.2	27.7
2	VA	Powhatan	4.7	1.3	82	VA	Rockingham	14.7	3.9
2	VA	Goochland	4.7	4.7	82	VA	Shenandoah	14.7	27.9
2	VA	Lunenburg	4.7	43.5	82	VA	Page	14.7	31.4
2	VA	New Kent	4.7	23.3	82	WV	Pendleton	14.7	34.8
2	VA	Sussex	4.7	22.8	104	VA	Wise	18.5	13.9
2	VA	King William	4.7	17.2	104	KY	Letcher	18.5	9.1
2	VA	Essex	4.7	10.9	104	VA	Lee	18.5	30.7
2	VA	Amelia	4.7	5.9	104	VA	Dickenson	18.5	33.6
2	VA	Cumberland	4.7	51.0	113	VA	Smyth	25.6	18.6
2	VA	Richmond	4.7	35.6	113	VA	Wythe	25.6	33.6
2	VA	Charles City	4.7	15.3	117	VA	Augusta	13.9	15.8
2	VA	King and Queen	4.7	30.8	117	VA	Rockbridge	13.9	6.0
8	VA	Newport News	7.4	3.9	117	VA	Highland	13.9	21.2
8	VA	Hampton City	7.4	4.5	123	VA	Lancaster	29.8	25.1
8	VA	York	7.4	2.8	123	VA	Northumberland	29.8	36.3
8	VA	James City	7.4	4.2	126	VA	Prince Edward	38.7	38.7
8	VA	Gloucester	7.4	4.9	127	VA	Pittsylvania	17.0	17.0
8	VA	Isle of Wight	7.4	43.7	128	VA	Spotsylvania	34.2	25.6
8	VA	Mathews	7.4	6.2	128	VA	Stafford	34.2	47.2
8	VA	Middlesex	7.4	45.4	128	VA	King George	34.2	30.5
8	VA	Surry	7.4	58.1	133	VA	Accomack	20.8	26.6
10	VA	Roanoke	4.1	3.5	133	VA	Northampton	20.8	7.7
10	VA	Campbell	4.1	2.4	49	VT	Chittenden	1.9	1.4
10	VA	Bedford	4.1	0.9	49	VT	Franklin	1.9	0.9
10	VA	Franklin	4.1	4.3	49	VT	Lamoille	1.9	7.7
10	VA	Amherst	4.1	4.3	49	VT	Grand Isle	1.9	0.4
10	VA	Botetourt	4.1	5.1	95	VT	Rutland	16.0	9.6
10	VA	Appomattox	4.1	3.2	95	VT	Addison	16.0	28.3
10	VA	Floyd	4.1	50.3	116	VT	Caledonia	19.3	27.8
10	VA	Craig	4.1	14.4	116	VT	Orleans	19.3	9.4
14	VA	Virginia Beach	1.5	1.3	700	WA	Benton	5.6	4.7
14	VA	Norfolk/Portsmouth	1.5	1.3	700	WA	Franklin	5.6	7.6
14	VA	Chesapeake City	1.5	1.1	706	WA	Spokane	1.0	0.8
14	VA	Nansemond	1.5	3.3	706	WA	Stevens	1.0	0.6
14	VA	Southampton	1.5	5.9	706	WA	Lincoln	1.0	7.4
20	VA	Carroll	19.8	30.7	706	WA	Pend Oreille	1.0	5.1
20	VA	Grayson	19.8	10.8	706	WA	Ferry	1.0	3.6
20	NC	Alleghany	19.8	16.6	731	WA	Grays Harbor	37.7	34.4
25	VA	Montgomery	14.9	17.5	731	WA	Pacific	37.7	51.8
25	VA	Pulaski	14.9	10.8	741	WA	King	4.4	5.2
25	VA	Giles	14.9	9.9	741	WA	Snohomish	4.4	1.8
32	VA	Alleghany	17.2	16.6	748	WA	Pierce	6.3	5.7
32	VA	Bath	17.2	20.1	748	WA	Kitsap	6.3	9.0
38	VA	Halifax	23.7	7.2	748	WA	Thurston	6.3	6.0
38	VA	Mecklenburg	23.7	30.8	748	WA	Mason	6.3	3.7
38	VA	Charlotte	23.7	52.2	754	WA	Grant	21.6	21.7
53	VA	Prince William	31.9	52.8	754	WA	Adams	21.6	21.4
53	VA	Albemarle	31.9	1.5	757	WA	Whitman	12.3	15.5
53	VA	Fauquier	31.9	18.1	757	ID	Latah	12.3	9.2
53	VA	Culpepper	31.9	5.6	788	WA	Yakima	5.5	5.4
53	VA	Orange	31.9	13.5	788	WA	Kittitas	5.5	5.6
53	VA	Louisa	31.9	35.6	790	WA	Clallam	5.6	3.1
53	VA	Buckingham	31.9	28.7	790	WA	Jefferson	5.6	14.8
53	VA	Nelson	31.9	32.3	798	WA	Skagit	8.9	6.7
53	VA	Fluvanna	31.9	2.9	798	WA	Island	8.9	10.0
53	VA	Madison	31.9	3.1	798	WA	San Juan	8.9	27.3
53	VA	Greene	31.9	3.1					
53	VA	Rappahannock	31.9	20.2					
58	VA	Frederick	15.8	4.2					
58	WV	Berkeley	15.8	12.7					
58	VA	Warren	15.8	17.5					
58	WV	Hampshire	15.8	32.3					

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			Area	County				Area	County
802	WA	Chelan	7.7	5.4	373	WI	Rusk	16.4	12.5
802	WA	Douglas	7.7	12.9	373	WI	Sawyer	16.4	42.4
804	WA	Lewis	15.5	15.5	380	WI	Rock	19.9	9.9
816	WA	Cowlitz	10.4	10.0	380	WI	Walworth	19.9	42.6
816	WA	Wahkiakum	10.4	25.3	382	WI	Racine	11.9	13.0
823	WA	Okanogan	16.0	16.0	382	WI	Kenosha	11.9	10.4
827	WA	Whatcom	4.5	4.5	387	WI	Juneau	48.1	46.0
279	WI	Brown	3.2	2.3	387	WI	Adams	48.1	52.0
279	WI	Oconto	3.2	9.8	388	WI	Sheboygan	8.5	7.4
279	WI	Door	3.2	1.2	388	WI	Manitowoc	8.5	10.0
279	WI	Kewaunee	3.2	4.2	389	WI	Onelda	7.5	5.6
291	WI	Milwaukee	0.7	0.5	389	WI	Vilas	7.5	4.2
291	WI	Waukesha	0.7	0.9	389	WI	Forest	7.5	18.5
291	WI	Washington	0.7	1.7	6	WV	Raleigh	18.8	11.6
291	WI	Ozaukee	0.7	2.1	6	WV	Fayette	18.8	16.6
300	WI	La Crosse	5.3	0.4	6	WV	Wyoming	18.8	39.7
300	WI	Monroe	5.3	2.4	17	WV	Mercer	7.0	3.9
300	WI	Vernon	5.3	2.7	17	VA	Tazewell	7.0	6.8
300	WI	Trumpealeau	5.3	30.6	17	WV	Mc Dowell	7.0	5.3
300	MN	Houston	5.3	3.7	17	VA	Buchanan	7.0	10.3
300	WI	Jackson	5.3	8.0	17	VA	Bland	7.0	41.8
301	WI	Dane	3.8	1.3	21	WV	Randolph	14.8	3.3
301	WI	Columbia	3.8	7.7	21	WV	Upshur	14.8	20.2
301	WI	Sauk	3.8	4.8	21	WV	Barbour	14.8	15.1
301	WI	Iowa	3.8	13.1	21	WV	Pocahontas	14.8	41.5
301	WI	Marquette	3.8	37.5	21	WV	Tucker	14.8	10.8
316	WI	Eau Claire	4.9	2.8	34	WV	Cabell	9.5	2.1
316	WI	Chippewa	4.9	4.4	34	OH	Lawrence	9.5	2.7
316	WI	Dunn	4.9	6.9	34	KY	Boyd	9.5	1.4
316	WI	Pepin	4.9	21.4	34	WV	Wayne	9.5	1.2
327	WI	Winnebago	6.6	2.3	34	KY	Greenup	9.5	17.1
327	WI	Outagamie	6.6	7.0	34	KY	Carter	9.5	30.5
327	WI	Waupaca	6.6	11.0	34	WV	Lincoln	9.5	30.9
327	WI	Calumet	6.6	15.5	34	KY	Lawrence	9.5	11.4
342	WI	Fond Du Lac	15.3	13.0	34	KY	Martin	9.5	39.3
342	WI	Portage	15.3	9.7	39	WV	Logan	27.9	22.3
342	WI	Waushara	15.3	30.9	39	WV	Mingo	27.9	33.7
342	WI	Green Lake	15.3	31.7	61	WV	Monongalia	8.5	1.3
344	WI	Wood	9.2	3.7	61	WV	Marion	8.5	1.9
344	WI	Clark	9.2	18.5	61	PA	Greene	8.5	17.5
344	WI	Taylor	9.2	12.8	61	WV	Preston	8.5	14.9
344	WI	Price	9.2	13.3	61	WV	Taylor	8.5	26.4
346	WI	Dodge	44.7	45.0	65	WV	Kanawha	9.5	1.6
346	WI	Jefferson	44.7	44.4	65	WV	Putnam	9.5	17.1
349	WI	Marathon	20.7	21.2	65	WV	Boone	9.5	29.5
349	WI	Shawano	20.7	34.0	65	WV	Jackson	9.5	35.9
349	WI	Lincoln	20.7	11.1	65	WV	Roane	9.5	5.8
349	WI	Langlade	20.7	7.5	65	WV	Clay	9.5	23.3
349	WI	Menominee	20.7	17.2	66	WV	Nicholas	30.1	36.8
359	WI	Polk	19.6	22.1	66	WV	Webster	30.1	13.8
359	WI	Washburn	19.6	20.4	67	WV	Wood	5.7	2.8
359	WI	Burnett	19.6	10.7	67	OH	Washington	5.7	3.7
362	WI	Grant	36.2	37.0	67	WV	Ritchie	5.7	19.0
362	WI	Richland	36.2	26.0	67	WV	Calhoun	5.7	25.9
362	WI	Crawford	36.2	44.5	67	WV	Pleasants	5.7	10.9
363	WI	Marinette	14.5	20.8	67	WV	Wirt	5.7	10.0
363	MI	Dickinson	14.5	3.4	73	WV	Harrison	17.6	13.0
363	MI	Menominee	14.5	20.0	73	WV	Lewis	17.6	12.8
363	MI	Iron	14.5	6.0	73	WV	Braxton	17.6	35.7
363	WI	Florence	14.5	8.7	73	WV	Gilmer	17.6	45.0
367	WI	Green	32.2	27.3	73	WV	Doddridge	17.6	10.6
367	WI	Lafayette	32.2	40.1	93	WV	Greenbrier	32.9	23.7
373	WI	Barron	16.4	9.0	93	WV	Summers	32.9	27.4
					93	WV	Monroe	32.9	62.9

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			Area	County				Area	County
836	WV	Jefferson	37.5	37.5	782	WY	Washakie	10.3	8.6
745	WY	Natrona	4.1	2.7	782	WY	Hot Springs	10.3	13.4
745	WY	Converse	4.1	11.2	786	WY	Laramie	10.3	9.1
752	WY	Campbell	7.4	4.1	786	WY	Platte	10.3	21.8
752	WY	Sheridan	7.4	2.5	792	WY	Lincoln	17.4	24.9
752	WY	Johnson	7.4	7.7	792	WY	Teton	17.4	7.2
752	WY	Crook	7.4	47.1	792	WY	Sublette	17.4	12.8
753	WY	Albany	9.6	5.3	806	WY	Fremont	4.0	4.0
753	WY	Carbon	9.6	13.1	820	WY	Weston	17.1	17.1
753	CO	Jackson	9.6	53.1	831	WY	Sweetwater	11.6	11.6
765	WY	Park	7.2	5.5					
765	WY	Big Horn	7.2	10.8					

Table IV. Percent distribution of obstetric service areas and population according to travel for hospital births, by type of area: United States, 1984-86

[Data are for the coterminous United States]

Travel measure	Type of area				
	Obstetric areas			HCCA	County
	All	Metro	Nonmetro		
Number of areas	836	343	493	775	3073
Births outside area by residents					
	Percent distribution of areas				
Less than 25 percent	78.5	90.1	70.4	71.0	27.0
25-49 percent	20.1	9.0	27.8	21.8	23.3
50 percent or more	1.4	0.1	1.8	7.2	49.7
	Percent distribution of population living in areas				
Less than 25 percent	94.4	96.9	80.2	96.2	65.3
25-49 percent	5.3	3.0	18.9	3.3	18.1
50 percent or more	0.3	0.2	0.9	0.6	16.6
Births inside area by nonresidents					
	Percent distribution of areas				
Less than 25 percent	95.5	98.8	93.1	81.5	60.7
25-49 percent	4.4	1.2	6.7	16.6	31.9
50 percent or more	0.1	-	0.2	1.8	7.5
	Percent distribution of population living in areas				
Less than 25 percent	99.0	99.5	96.2	97.3	68.1
25-49 percent	1.0	0.5	3.8	2.5	27.1
50 percent or more	0.0	-	0.1	0.2	4.9

Note: Metropolitan service areas include at least one metropolitan county.

Table V. Percent of hospital births outside area of residence, by type of county and type of area: United States, 1984-86
 [Data are for the coterminous United States]

<i>Type of county of residence</i>	<i>Type of area</i>		
	<i>Obstetric area</i>	<i>HCCA</i>	<i>County</i>
	Percent of hospital births		
All counties	8.4	6.6	23.3
Metropolitan	5.8	3.3	18.2
Large core	3.5	1.7	9.6
Large fringe	10.0	4.7	37.5
Medium	5.8	3.8	17.2
Small	5.4	4.5	13.1
Nonmetropolitan	17.1	17.8	40.9
Urban	11.6	10.1	20.2
Less urban	18.9	20.3	47.1
Rural	26.1	30.3	77.3

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