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800 MHz Regional Planning Committee

Region 17
1240 Airport Road
Frankfort, Kentucky 40601

January 26, 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

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FOO-MAIL ROOM

Ms. Donna Searcy
Secretary
Federal Communications Commission
Washington, DC 20554

PR 93-132

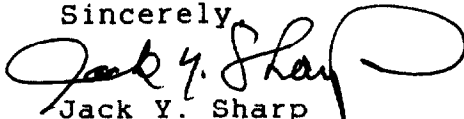
Dear Ms. Searcy:

I am proud to submit for consideration to the Federal Communications Commission, Region 17, Kentucky 800 Mhz Public Safety Radio Communications Plan. This plan was formulated in accordance with Federal Communications Commission Dockets 87-112 and 87-359.

The first of May 1989, a mass mailing was sent to all public safety agencies, special emergency agencies and public safety radio vendors. Please note that vendors were encouraged, but they were not allowed to vote. In addition to this many, calls were made and announcements were sent to the Kentucky Public Safety Associations. On June 1, 1989 at the Frankfort Civic Center a meeting was held to explain what had to be accomplished. At this meeting, Mr. Jack Y. Sharp was elected as chairman of the Region 17 Committee by the quorum.

As chairperson of Region 17, I compiled all the inputs from the Regional Planning Committee Members, and developed the final draft. This Document is outstanding proof that a diverse group of individuals and organizations ranging from Police, Fire, Ambulance, State and Local Government can work together effectively for the good of the community and the people they serve.

Sincerely,



Jack Y. Sharp
Region 17, Kentucky
Kentucky State Police
1240 Airport Road
Frankfort, Kentucky 40601

Telephone: 502-227-8750

JYS: mh

**800 MHz Plan
Region 17
Checklist**

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- 1) Cover page - identifying the region
- 2) Chairperson - Name, address, phone number, and signature
See page 51.
- 3) Committee members - name, organizational affiliation, address, and phone numbers. See page 51.
- 4) Summary of major elements of the plan. See page 2-6.
- 5) General description of how spectrum is allotted among users.
See page 25.
- 6) Explanation of how the requirements of all eligibles are considered and met. See page 3.
- 7) Explanation of how eligibles are prioritized in areas where not all eligibles may receive licenses. See page 9.
- 8) Explanation of how the plan has been coordinated with adjacent regions. See page 14 .
- 9) Description of how the plan puts spectrum to best possible use by:
 - I. Requiring system design with minimum coverage areas (see page 10)
 - II. Assigning frequencies so that maximum frequency reuse and offset channel use may be made (see page 15)
 - III. Making use of trunking (see page 8)
 - IV. Requiring small entities with minimal requirements to join together on a single system where possible (see page 9)

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- 10) Explanation of how interoperability channels are managed (see page 17)
- 11) "Slow Growth" language. See page 23.
- 12) Does the plan refer to **Give-Back** frequencies? If yes, give page number 13.
- 13) Give the APCO sorting program. See page 15.
- 14) Appeal Process. See page 50.
- 15) Does the plan provide for regional mutual aid channels, in addition to the five (5) common channels? If so, are there guard bands for these channels? See page 13.
- 16) Similar to the Generic Plan describe the formation of the committee;
 - I. Advertising - copy should be attached to legal notice, letters to the industry, etc. See Attachments # 1, 4, 5, & 6.
 - II. Who could vote? What procedure was used after first meeting? See page 2.
 - III. How was the final plan adopted? Was it by members attending a meeting or mail ballot? See Attachment # 1.



**PUBLIC SAFETY RADIO
COMMUNICATIONS PLAN**

for

**THE STATE OF
KENTUCKY**

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ATTACHMENT 2	Census Population Projections
ATTACHMENT 3	Demographic Information
ATTACHMENT 4	Public Notice of Intent to File
ATTACHMENT 5	Listing of First Meeting Attendees
ATTACHMENT 6	Adjacent Regions Notification of Intent to File

1.0 SCOPE

1.1 Introduction

In December of 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met. By their regular means of initiation, the FCC began the process of developing such a plan. Through their efforts, and the efforts of the National Public Safety Planning Advisory Committee (NPSPAC) the plan was begun.

The National Public Safety Planning Advisory Committee provided an opportunity for the public safety community and other interested members of the public to participate in an overall spectrum management approach by recommending policy guidelines, technical standards, and procedures to satisfy public safety needs for the foreseeable future. After consideration of NPSPAC's Final Report and comments filed in Docket No. 87-112, a Report and Order was released by the FCC in December 1987, which established a structure for the National Plan that consists of guidelines for the development of regional plans. Six megahertz of spectrum was selected in the 821-824 and 866-869 MHz band, since they were already being used for public safety purposes.

The National Plan provides guidelines for the development of regional plans. The particulars of this plan are found in FCC 87-359, which contains the required steps and contents for regional plan development. It is on this document that this plan is developed.

1.2 Purpose

Public safety communications has, for many years, been inadequate throughout the United States. This is as true for Kentucky as it is for any other state. Many, if not all, public safety radio users are constantly bombarded with outside interference, noise, and over crowding. It is with these problems in mind that this plan was developed.

This regional plan was developed with the objective of assuring all levels of public safety/public service agencies that radio communications in the near and

distant future will not suffer from the problems of the past. The allocation of frequencies was done in as equitable a way as possible. The goal was to supply a pool of frequencies for each county and a pool for state agency use with adequate reserve allocations for future needs in all areas, and a method to appeal initial allocations based on need.

The National Plan, as developed by NPSPAC, was followed very closely in all considerations for frequency allocation, re-use, turn back, regional interoperability, spectrum requirements and adjacent region operations. This plan should provide the flexibility to accommodate the growth and changes which are bound to occur in public safety and public service communications operations long into the future.

2.0 AUTHORITY

2.1 Regional Planning Committee

The development of the Public-Safety Radio Communications Plan for Region 17, the State of Kentucky, has followed the requirements of the FCC's Report and Order as issued in the matter of General Docket 87-112.

In accordance with the FCC's Report and Order 87-112, the Associated Public-Safety Communications Officers Inc. (APCO) recommended to the Commission the appointment of a "Convenor" for Kentucky Region 17. The Convenor served as the coordinator for the assembly and formation of the planning committee.

Participants in the formation of the Regional Planning Committee represent interested parties from both the Public Safety and Special Emergency Radio Services. A total of 33 individuals have participated in the development process. The list herein contains the names, organizational affiliations and mailing addresses of all participants in the Regional Planning Committee (Section 6.0).

The committee was selected by attendance at the planning meeting. Each member of the Committee representing an eligible licensee under the Public Safety Radio Services and the Special Emergency Radio Services was entitled to one vote in all Committee matters. Except as may be provided elsewhere in

the Plan, the majority of those present at a scheduled meeting constituted a majority for all business. The final approval of the plan, prior to submission to the FCC, required a vote from a majority of members in attendance during the final review meeting. The plan was also discussed during a meeting of public safety officials on January 20, 1993 in Morehead, Kentucky. More than eighty individuals, representing all components of public safety agencies were present during this discussion. This way, the finished plan was reviewed and accepted by the widest, within reason, group of public safety/public service users.

2.2 Planning Committee Formation

The process of forming the Planning Committee was conducted in the following steps:

1. Personal interviews were held with the representatives of all major state agency radio users.
2. Presentations concerning the requirements for a regional planning committee were presented and discussed at state organization meetings. At each presentation there was an opportunity for persons to place themselves and/or their agency on the mailing list.
3. Letters of announcement were mailed to each major state agency radio users, those placed on the mailing list, as well as to state organizations composed of local government level public safety/public service users. Letters were also sent to all members of the Kentucky Chapter of APCO. This was done May 1, 1989. The announcement was posted throughout the region from April through June, 1989. The first meeting was held at the Farnham Dudgeon Civic Center, Frankfort, Kentucky, a public facility.
4. An organizational meeting was held for Region 17, Kentucky on June 1, 1989. Mr. Jack Y. Sharp was elected chairman of Region 17 by the group in attendance.
6. Committee membership was left open to any person or agency which may not have been notified or decided to join the committee later.

7. Vendors participation was encouraged, but vendors were not allowed a vote.

2.3 National Interrelationships

The Regional Plan is in conformity with the National Plan. If there is a conflict between the two plans, the National Plan will govern. It is expected that Regional Plans for other areas of the country may differ from this plan due to the broad differences in circumstance, geography, and population density. By officially sanctioning this plan the Federal Communications Commission agrees to its conformity to the National Plan. Nothing in the Plan is to interfere with the proper functions and duties of the organizations appointed by the FCC for frequency coordination in the Private Land Mobile Radio Services, but rather it provides procedures that are the consensus of the Public Safety Radio Services and Special Emergency Radio Service user agencies in this Region. If there is a perceived conflict then the judgment of the FCC will prevail.

2.4 Federal Interoperability

Interoperability between the Federal, State and Local Governments during both daily and disaster operations will primarily take place on the five common channels identified in the National Plan. Additionally, through the use of S-160 or equivalent agreements, a licensee may permit Federal use of a non-Federal communications system. Such use, on other than the five identified common channels, is to be in full compliance with FCC requirements for government use of non-government frequencies (Title 47 CFR, sec 2.103). It is permissible for a non-Federal government licensee to increase channel requirements to account for 2-10 percent increase in mobile units, dependent on the amount of Federal Government Agencies involvement in its area, provided that written documentation from Federal agencies supports at least that number of increased units.

2.5 Kentucky Regional Conformance Review Committee

Upon approval of this Plan by the Federal Communications Commission, a Kentucky Region Conformance Review Committee(KRCRC) will be established for the review of applications which do not fall within the stated guidelines provided for in this plan, or for the settlement of disputes concerning this plan and/or its application.

This committee shall consist of the Local APCO Frequency Advisor for this region, one representative from each of the current primary 800 MHz Planning Areas (Louisville, Lexington, Northern Kentucky area); five (5) representing state-wide public safety agencies (Kentucky State Police, Kentucky Department of Transportation, Kentucky Emergency Medical, Kentucky Disaster Emergency Services, Kentucky Fish and Wildlife); a member representing the Sheriff's Departments across the state; a member representing the office of City Police Chiefs; a member representing the Kentucky Chapter of APCO; and four (4) public safety at large members. Members representing the state agencies (KSP, DOT, DES, Fish and Wildlife) will be selected by the head of each of the specific state agencies. It will be suggested to the agency heads that the specific title of an individual, i.e. Director of Communications for that agency, be selected as the representative. Thereafter, as personnel changes occur within that position, the individual assuming those responsibilities for those state agencies will automatically become that agencies representative to the KRCRC. These terms will be non-expiring. The term of local APCO Frequency Advisor Committee Chairman is also non-expiring. The individual selected by Kentucky APCO to serve in the Frequency Advisor capacity will automatically be a member of the KRCRC.

The Sheriff's representative will be selected by the Kentucky Sheriff's Association, the Police Chief's representative will be selected by the Kentucky Police Chief's Association and the Kentucky APCO's representative will be selected by the Kentucky APCO Chapter. The representatives of the Kentucky Sheriffs, the Chief of Police and the Kentucky APCO will serve a term of one year. Those terms will begin on January 1 of each year and expire on December 31 of the same year. There is no prohibition against successive terms by the same representative from each of the Associations. In fact, during the early stages of the development of the 800 MHz systems within the Region, continuity of personnel could be highly advantageous.

Additionally, the KRCRC may select up to four (4) additional at-large members to represent various segments of the public safety community. Nominations may be submitted to the KRCRC by any public safety agency within the state. Any member of the KRCRC may also nominate candidates. All nominations received must include sufficient information regarding the applicant, their education and work experience background to permit an informed decision regarding the benefits to the KRCRC that selection of this candidate might provide. Candidates will be reviewed annually by the

KRCRC. If at-large membership is deemed beneficial for the responsibilities of the KRCRC, an election will be conducted at least sixty (60) days prior to the end of the calendar year. In order to be elected, a candidate must receive more than 50% of the votes from the number of members in attendance. In the event that more than four candidates are selected by the KRCRC, the four with the highest number of votes will be offered membership to the KRCRC. The term of office for the at-large members will be for one calendar year, from January 1 through December 31. At-large members may be nominated and selected to more than one consecutive term.

Nine (9) members plus the designated chairman must be present to constitute a quorum. Each of the nine members shall vote on issues. The KRCRC Chairman, in the case of a tie vote, may cast a vote. The KRCRC will convene upon the Commission's approval of this plan.

This committee and its composition will be assured by the Kentucky APCO Chapter and other Public Safety organizations. Since this committee will probably not have regular business, it will be up to the Local APCO Frequency Advisor to notify the committee of problems, conflicts, or when it becomes apparent that spectrum demands will outpace available spectrum. Each member of the committee shall be furnished a copy of this plan upon their appointment or election to the committee.

Plan updates shall be accomplished by this committee. All changes or updates to the plan shall be first agreed upon by this committee and then submitted to the FCC for their review and consideration. When approved all changes shall be added to the plan with the appropriate documentation of approval.

This committee shall meet at least once annually to review the implementation of the plan. This review shall consist of examination of any and all license activity.

3.0 SPECTRUM UTILIZATION

This portion of the Plan provides a basis for proper spectrum utilization. Its purpose is to guide the Local APCO Frequency Advisor and/or the Regional Review Committee in their task of evaluating the implementation of this plan within this Region.

3.1 Region 17 Defined

Region 17 is the State of Kentucky. This region is the result of definition by the Federal Communications Commission as a result of recommendations made in the National Public Safety Planning Advisory Committee (NPSPAC) plan as submitted and approved and contained in Docket 87-112. For purposes of this plan the State of Kentucky shall be defined as all the lands and waters contained within the boundaries of the State of Kentucky.

3.2 Region Profile (Demographic Information)

The purpose of this section is to provide the basis for the assignment of frequencies, and their re-use. Since the frequency allocation formula used is based on population within a county, it is necessary to provide this information within this plan. The data used in the determination of frequency allocations is attached.(Attachment 2 & 3)

3.2.1 State Of Kentucky Population And Expected Growth Percentage. **(See Attachment 3)**

The population of Kentucky is 3,685,296. The urban population is some 60 percent and the rural 40 percent. The population within developed urban areas is about 60 percent or 2,211,177.

3.2.2 Geographical Description

There are 120 counties in the state with a total land mass of 40,395 square miles. The largest county is Pike County, with a total of 782 square miles. Water areas of significance are the lake areas such as Kentucky Lake, Lake Cumberland, Lake Barkley, etc. and many rivers which support many recreational endeavors.

As is shown above, the population of the state is 3,685,296 distributed across the land area contained in the state. This presents some problems in area coverage for radio systems in that the entire land area of any given jurisdiction must be covered. The population per square mile is somewhat sparse which generally indicates that the concentration of radio users for public safety activities is also sparse. All of these items were taken under consideration in the allocation plan.

3.3 Usage Guidelines

All systems operating within the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional or trunked.

The FCC, in its Report and Order states, "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely, however, strong evidence showing why trunking is unacceptable must be presented in support of any request for exception."

Systems of four or less channels operating in the conventional mode who do not meet FCC loading standards will be required to share the frequency on a non-exclusive basis.

Public Safety communications at the state level, as it impacts the Region, will be reviewed by the Committee. State-wide public safety agencies will submit their communications plans for impact approval if they utilize communications systems within the Region and those portions of such systems must be compatible with the Regional Plan.

The next level of communication coverage will be a county/multiple municipality area. Those systems that are designed to provide area communication coverage must demonstrate their need to require such wide area coverage.

This would apply in a situation such as a city requesting coverage of an entire county. Communication coverage beyond the bounds of a jurisdictional area of concern cannot be tolerated unless it is critical to the protection of life and

property. If the 800 MHz trunked radio technology is utilized, the system design must include as many county/multiple municipality government public safety and public service radio users as can be managed technically.

The county/multiple municipality agency(ies), depending upon systems loading and the need for multiple systems within an area, must provide intercommunications between area-wide systems. In a multi-agency environment, a lead agency using the 800 MHz spectrum, which is an agency or organization having primary response obligations in the geographic area, shall be responsible for coordinating the implementation the Common Channels in this band as mandated by the National Plan. Such implementation must be reviewed and approved by the Local APCO Frequency Advisor, and at his/her discretion, the Regional Review Committee.

Municipal terminology often differs. In order to provide a title for the next level of communications the term city-wide is used to define the level below county-wide. City-wide communications for public safety and public services purposes must provide only the communications needed within its boundaries. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, they must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As those higher level systems reach capacity, the smaller system communicators in public safety and public service must then consider uniting their communications efforts to formulate one large system or forfeit use of the limited 800 MHz spectrum.

Where smaller conventional 800 MHz needs are requested, those frequencies to be utilized must not interfere with the region's trunked systems. The 800 MHz regional trunked radio system is to be considered the higher technology at this time and in greater compliance with FCC guidelines. The amount of interference that can be tolerated depends on the service affected. Personal life and property protection shall receive the highest priority and disruptive interference with communications involved in these services in an area shall not be tolerated. Any co-channel interference within an authorized area of coverage will be examined on a case by case basis by the Regional Review Committee.

3.4 Technical Design Requirements For Licensing

3.4.1 Definition of Coverage Area or Area of Jurisdiction

The coverage area shall be that area for which a system is intended to cover with a received signal strength of greater than 40 dBu. This area shall normally represent the boundaries of the County or the incorporated municipality which is applying for license. In the case of regional or area-wide, multi-jurisdictional systems, the coverage shall be that area of all jurisdictions participating in the system combined.

3.4.2 System Coverage Limitations

System coverage shall be limited to the coverage area defined as listed above plus no more than three (3) additional miles in all directions extending from said boundaries of definition. This limitation shall assure maximum frequency reuse. The only exception to this rule shall be those applicants wishing to offer service or system use to areas outside of their jurisdictional boundaries. In these situations the applicant shall provide a proposal of said service to the Local APCO Frequency Advisor, who may request Regional Review Committee consideration, for approval.

Systems not located within the geographical center of the jurisdiction(s) for which they cover shall utilize either directional antennas or antenna/tower relationship techniques to achieve the coverage required by this plan.

3.4.3 Determination Of Coverage

There are four variables used in determining the area of coverage of a proposed system. These variables are (1) the required strength of the received signal, (2) antenna height above average terrain (HAAT), (3) the effective radiated power (ERP) of the system, and (4) the type of environment.

Received Signal Strength:

For purposes of this plan, received signal strength shall be the determining factor which defines the actual boundary of a system. The minimum signal level which marks the outer boundary of a system shall be 40 dBu.

Antenna Height:

Shall be the height of the antenna above the average terrain surrounding the tower site.

Effective Radiated Power (ERP):

The ERP is the transmitter output power times the net gain of the antenna system. The actual formula is: $ERP (w) = Power(w) \times Log(\text{net gain in dB} / 10)$.

Environment Type:

OKUMURA/HATA METHOD - The Okumura method uses four different classifications to describe the average terrain around a transmitter site or area. The classifications are:

- 1-URBAN; Which is built-up city-crowded with large buildings or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.
- 2-SUBURBAN; Which is a city of highway scattered with trees, houses and buildings. This would include the downtown area of a large city.
- 3-QUASI-OPEN; Is an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.
- 4-OPEN; Is an area where there are no obstacles such as tall trees or buildings in the propagation path or a plot of land which is cleared of anything for 300 to 400 meters ahead. This would include farm land, open fields, etc.

Preparation of these requirements shall be the responsibility of the applicant. The Federal Communications Commission provides, in part 90.309(a)(4) of the Rules and Regulations, some additional guidance for these calculations.

3.4.4 Annexations And Other Expansions

It is well known that as cities grow, annexations occur. When an expansion of the present city limits of any city currently using an 800 megahertz system within the spectrum as herein specified occurs, it is understood that the existing system may have to be expanded and its range increased. This is a modification and may be permitted. The increased range of the system will have to be determined at the time of modification to assure non-interference with any other existing system. Where interference is likely, the use of alternate methods of expansion, such as satellite systems, may be necessary.

Should the annexation or expansion of a city effectively take in all or most of a county, the allocation for that county may be given to the city if required by said city and not in use or planned to be used by the county. Where more spectrum is not available from the initial allocation, the rules for expansion of initial allocation, as contained in this plan, shall apply.

3.4.5 Coverage Area Description

All applicants shall provide with their applications a map showing the jurisdictional boundaries to be covered by the system, and the calculated system coverage. This map shall display the location of the system transmitter(s), including control stations. It is recommended that a U.S. Geological Survey (USGS) Quad topographical map be used for this purpose. If not available, a high quality locally produced map or a highway map may be substituted. Regardless of the type map used, the name of the applicant and the scale of the map shall be displayed on the map.

3.4.6 Aircraft to Ground Communications

The use of 800 MHz radio in an aircraft for air-to-ground transmissions shall be limited to a maximum effective radiated power(ERP) of one(1) watt. Aircraft on the ground will be considered a mobile and can use additional power and the appropriate frequencies.

Since aircraft operations of trunked or conventional radio systems tends to disrupt adjoining systems because of height of the transmitting aircraft above ground level, aircraft shall be limited in height of use. No transmissions on area channels are allowed above 2,000 feet AGL, and no transmissions are

allowed above 3,000 feet AGL on wide area mutual aid channels.

Simplex (talk around) operations of aircraft radios shall be utilized for on-scene communications. Co-channel and adjacent channel users are not required to provide protection to airborne users.

3.4.7 Give-Back Frequencies

All agencies participating in the use of the any 800 megahertz spectrum shall prepare and submit a plan for the abandonment of their currently licensed frequencies in the lower bands. These released frequencies shall be available for reassignment to those agencies not migrating to 800 MHz at this time. These released frequencies shall be returned to the radio service from which it was assigned. These frequencies shall then be available for reassignment by the assignment/coordination criteria in effect for that particular service by the regular FCC authorized coordinator for that service.

Mutual aid channels, intersystem channels and other emergency channels are:

- 155.370 MHz Police Point-to-Point
- 155.475 MHz Police Mobile-to-Mobile
- 155.340 MHz EMS Mobile-to-Hospital
- 155.280 MHz EMS Hospital-to-Hospital
- 154.280 MHz Fire Mutual Aid
- 155.220 MHz EMS Dispatch Common
- 155.160 MHz EMS Dispatch Common

These frequencies used by Public Safety and Special Emergency Radio Services as designated by Kentucky State Government Planning are exempt from the relinquishment requirement.

Frequencies which are to be abandoned by an agency shall not be handed down to another agency within the respective jurisdiction. Though this may seem a convenient method to re-use existing radio equipment, the reassignment must be handled through the normal process. It is recommended that any jurisdiction wishing to "hand down" frequencies to another agency submit the proper coordination and application forms with the document of release. This will put the applicant in a better posture for reassignment of the frequency in question. It should be noted that even though this procedure is followed, there

is no guarantee that a particular frequency will be assigned to the returning jurisdiction.

The time frame allowed for phasing into 800 MHz and out of the lower currently licensed bands will be considered on a case by case basis by the review committee. Generally, one year will be considered acceptable in most cases, with two years as a maximum. Any agency requiring more than two years shall provide documents stating the reasons for the delay, and give the estimated time of completion.

3.4.8 Unused Spectrum

Due to the fact that all of the frequency spectrum is not needed at this time, the excess channel pairs will be returned to a reserve pool. These channels may be used for conflict with adjacent Region allocations or may simply remain within this Region until needed. This does not imply that these frequencies are unavailable, only that before they can be utilized within the Region they must be coordinated via the regular APCO coordination process and within the guidelines set forth in this plan. Where possible, the channels designated for a jurisdiction in this plan shall be used.

3.4.9 Adjacent Region Coordination's

Coordination with adjacent regions shall be an on-going process until all region plans have been finalized. At present, all adjacent regions have been coordinated with and no conflicts have been identified. The adjacent regions with which coordination has been conducted are: Indiana (Region 14); Ohio (Region 33); Illinois (Region 13); Virginia (Region 42); West Virginia (Region 44); Tennessee (Region 39) and Missouri (Region 24). (ATTACHMENT 6)

As the use of the five National channels is not considered a day-to-day function, the "hard" coordination for the use of these channels is not considered to be necessary or advisable. The use of these channels will always be on a non-interference basis, with on-the-air coordination at the time of use when required. Any user found to be operating in any manner other than this shall be considered to be operating improperly and subject to the existing Federal Communications Commission rules for willful interference with the communications of other users.

3.5 Initial Spectrum Allocation

3.5.1 Frequency Sorting Methodology

The initial spectrum allocation for Kentucky was determined by a computerized frequency sorting process performed by APCO. The purpose of the computer program which assigns frequencies to specific eligibles and to pools for future assignments is two-fold:

- A) The assignments must result in a high degree of spectrum efficiency, and
- B) The assignments must result in a low probability of co- channel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, a method of defining geography must be part of the input. A list of the number of channels to be assigned in each geographic area is also required, along with the name of the eligible or pool.

Acceptable interference probabilities are determined for the Region. Frequency assignments are then made using a computer program which satisfies the goals of spectrum efficiency and interference protection. The following narrative describes the factors and process used by the computer program.

3.5.2 Geographic Area

For the purpose of this frequency sort, a geographic area is defined as one or more circles of equal radius. To the degree practical, the circle(s) should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three (3) miles. Thus, the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the coordinates and radius of the circles which define each area, and tabulate the data.

3.5.3 Define The Environment

The environment of each system is defined according to the Okumura/Hata method of classifications. See Section 3.4.3.

3.5.4 Blocked Channels

In the Region there are five mutual aid channels which must be blocked out to prevent the computer from making assignments on these channels. (Since the mutual aid channels are spaced at 0.5 MHz intervals, other Region-wide systems are spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels.) These Region-wide blocked channels are identified by FCC channel number, tabulated and they become input to the computer program.

3.5.5 Transmitter Combining

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is, if the eligible has more frequencies than the maximum size of the combining block, then a second compatible block is created, and so on. Each of these parameters is adjustable in the program on a global basis. The default parameters chosen are 0.25 MHz minimum spacing and five channel blocks.

3.5.6 Special Considerations

There are licensees in the 806-821/852-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz bands. Some of the existing radio units are unable to operate on 12.5 KHz separated carrier frequencies. The result is that these radios can only operate on "even" FCC numbered channels in the 821-824/866-869 MHz band. The computer program is able to take this into account when making assignments.

3.5.7 Grandfathered Equipment

Radio equipment that is currently type excepted in the public safety systems in the 806-821 MHz band may continue to operate on the 821-824/866-869 MHz channels, provided the deviation is reduced to +/- 4 KHz.

3.5.8 Protection Ratios

There are two interference protection ratios built into the computer program. One is for the co-channel case, the other is for the adjacent channel case. The ratios provide 35 dB Desired/Undesired signal ratio for co-channel assignments, and 15 dB Desired/Undesired ratio for the adjacent channel case. These ratios provide an acceptable probability of interference for Public Safety Services.

3.5.8 Adjacent Region Coordination

The computer program requires a listing of channels to be blocked along the borderline with other regions which have pre-existing plans. If the adjacent region plan was developed using the APCO packing program, this information exists in the database. If the adjacent region plan was developed by another method, then the data must be obtained from the adjacent region's plan in order to build the exclusion list.

4.0 COMMUNICATIONS REQUIREMENTS

4.1 Common Channel Implementation

The implementation of the International Common Channels must follow the guidelines as set forth by the Federal Communications Commission by the approval of the National Plan. The National Plan has set aside five (5) channels in the new spectrum for mutual aid. These channels are accessible by all levels of government and shall be used in accordance with the provisions of the National Plan. Agencies applying for license in the 821-824 and 866-869 MHz bands shall be required to explain how they will implement the new Common Channels. They will also be required to explain how they will maintain intercommunication with their neighboring agencies who do not implement the Common Channels, but still are dependent upon the applying agency for assistance in an emergency. All mobile and portable equipment must be equipped to operate in the "talkaround mode" on the International Common Channels.

The International calling channel (821/866.0125 MHz) shall be implemented as a full mobile relay. Wide area coverage transmitters will be installed where

applicable within a system. Large system users (5 channels or more) of 800 MHz shall be required to monitor this channel at all times. The area of coverage for this channel shall be equal to the area covered by the licensed system. This may or may not require the use of satellite receivers within the area to meet this requirement.

The four International Tactical (ITAC) Channels will be assigned State-wide, for use as needed by all eligible licensees. These channels are to be used in accordance with the National Plan and in compliance with the regulations as set forth by the Federal Communications Commission. These channels require no special licensing, only that the users be eligible for licensing on the other Public Safety 800 MHz channels as specified in section 90.616 (a) of the FCC Rules and Regulations.

4.1.1 Areas of Operation

The common channels shall be available for use throughout the Region. No specific assignments were deemed necessary within the Region.

4.1.2 Operation on The Common Channels

Normally, the five interoperable channels are to be used only for activities requiring inter-communications between agencies not sharing any other compatible communications system. Interoperable channels are not to be used by any level agency for routine, daily operations. In major emergency situations, one or more ITAC channels may be assigned by the primary Public Safety Agency within that area of operation. The primary Public Safety agency in each county, if not defined elsewhere in the plan, shall be the Kentucky State Police or the County Sheriff's Department or the lead agency, which may be any agency licensed to operate in this spectrum, or "on-scene" commander. The primary Public Safety agency shall be the city level Public Safety Department in situations which occur within the corporate limits of said city. These primary agencies will assign one or more of the ITAC channels for use according to need during each special situation requiring the use of these channels. All applicants are required to include the Calling Channel and the four (4) tactical channels in their mobile and portable units, with talk-around capability.

Participants in the interoperable channels include Federal, State, and Local

Disaster Management agencies. Police, Fire, and providers of Basic and Advanced Life support services will be the primary using agencies. If radio channels are available, other services provided in the Public Safety Radio Services and the Special Emergency Radio Services may also participate to the extent required to insure the safety of the public. These agencies include the Highway Department, Motor Vehicle Department, Forestry, Wildlife and other special service agencies not normally involved in day-to-day public safety operations.

4.1.3 Operation Procedures

On all Common Channels, plain English will be used at all times, and the use of unfamiliar terms, phrases, or codes will not be allowed. The primary public safety agency, with support of the KRCRC will monitor radio traffic discipline and resolve serious or chronic infractions.

4.1.3(I) International Calling Channel (ICALL):

<u>FREQUENCY</u>	<u>TONE</u>
821.0125 MHz (mobile)	156.7 Hz
866.0125 MHz (base)	156.7 Hz

The ICALL channel shall be used to establish contact with other users in a particular Region that can render assistance at an incident. This channel shall not be utilized as an ongoing working channel. Once contact has been established between agencies, an agreed upon ITAC or mutual aid channel shall be used for continued communications.

4.1.3(II) International Tactical Channels (ITAC-1 -ITAC-4):

	<u>FREQUENCY</u>	<u>TONE</u>
1.	821.5125 MHz (mobile)	156.7 Hz
	866.5125 MHz (base)	156.7 Hz
2.	822.0125 MHz (mobile)	156.7 Hz
	867.0125 MHz (base)	156.7 Hz
3.	822.5125 MHz (mobile)	156.7 Hz
	867.5125 MHz (base)	156.7 Hz

- | | | |
|----|-----------------------|----------|
| 4. | 823.0125 MHz (mobile) | 156.7 Hz |
| | 868.0125 MHz (base) | 156.7 Hz |

These frequencies are reserved for use by those agencies involved in inter-agency communications. Incidents requiring multi-agency participation will utilize these frequencies as directed by the control agency assuming responsibility for an incident or area of concern. These frequencies may be subdivided according to function in an incident or by geographical location in response to an incident. It is recommended that the following assignments for ITAC-1 through ITAC-4 be used when possible.

- ITAC-1..... Law Enforcement
- ITAC-2Fire Services
- ITAC-3Emergency Medical Services
- ITAC-4Command and Control

4.1.4 Coded Squelch

All equipment capable of operating on the five (5) common channels shall be equipped with the National Common Tone Squelch of 156.7 Hz. Mobile relays on these channels, if authorized, may use additional tone or digital squelch codes for the purpose of selecting individual mobile relay stations, provided the National Common Tone Squelch Code is used on the output. If such an arrangement is utilized, provision must also be made for certain centralized, high level sites to be activated by the 156.7 Hz tone to ensure emergency access by transient units.

4.2 Network Operating Methods

Communications systems on ITAC-1 through ITAC-4 will be implemented by agencies who volunteer on a distributed coordinated basis. Every primary geographic section of the Region is intended to be covered by at least one of the ITAC channels. In many areas the common channels will be utilized on a mobile to mobile talk-around basis. Mobile relays on ITAC-1 through ITAC-4 will be on a limited coverage design to permit reuse of the channel several times within the Region and in adjacent regions. Since Region 17 will probably not have a large number of stationary ITAC Channel stations, the implementation of mobile relay or repeaters is strongly encouraged. This will fill an "on-scene" requirement for most multi-agency response situations.

Adjacent region coordination will be via existing mutual aid coordination procedures with the requesting region establishing the tactical frequency assignment.

4.3 Requirements For Trunking

All systems operating in the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional. It is strongly suggested that any entity licensing three or more repeaters use trunking. The FCC in its Report and Order states: "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely. Strong showings as to why trunking is unacceptable must be presented in support of any request for exception." Systems that do not meet FCC loading standards can be required to share such frequencies on a non-exclusive basis. Those agencies requesting Data channels only can be required to share channels with adjacent agencies wherever feasible or limit coverage to their geographic area. Exceptions will be considered on a case-by-case basis by the Regional Review Committee.

Depending on systems loading and the need for multiple systems within an area, operators of wide area systems (including, but not limited to, designated "Monitoring Agencies") must provide for coordination between area-wide systems and "Monitoring Agencies". Single municipalities or agencies must restrict design and implementation of their systems(s) to provide only the communications needed within its geopolitical boundaries. The use of trunked systems is encouraged. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, that user must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As systems reach capacity, the smaller system users must consider consolidating their communications systems to formulate one large trunked system.

A requesting applicant for radio communications in the 800 MHz public safety services in the Region will be required to conform to the FCC loading criteria for its proposed system. The provisions of this regional plan must be used as a guide for establishing any new systems. Strict adherence for limiting the area of coverage to the boundaries of the applicant agency's jurisdiction must be

observed. Overlap or extended coverage must be minimized, even where systems utilizing 800 MHz trunked radio systems are proposing to intermix systems for cooperative and/or mutual aid purposes.

Antenna heights are to be limited to provide only the necessary coverage for a system. When antenna locations are restricted to only the "high-ground", transmitter outputs and special antenna patterns must be employed to produce only the necessary coverage with the proper amount of ERP. All necessary precautions are to be taken to gain maximum reuse of the limited 800 MHz spectrum.

4.4 Channel Loading Requirements

An agency/jurisdiction requesting a single frequency to replace a frequency currently in use that will be turned back for reassignment will not be required to meet loading requirements in order to obtain the new frequency. However, if the single frequency is not loaded to more than 50 units within three years after the license is granted, the frequency will be available for assignment to other agencies on a shared basis in the event that other frequencies meeting the criteria for assignment are exhausted. Shared use of a frequency is not interference free. Users of single frequency systems may be required to provide the Regional Review Committee "confirmation of loading" for mobiles and portables as a method of validating system loading. This exception shall apply to agencies having only one system and a single frequency. Agencies/jurisdictions requesting multiple frequencies or employing trunking technology shall comply with the loading standards as outlined below or provide a "Traffic Loading Study" that meets the criteria as outlined below. While considering loading, emergency vs non-emergency requires consideration. Emergency agency refers to those agencies that provide immediate protection of life and property, such as police, fire and ambulance service that have the primary responsibility for initial response to life threatening situations.

4.4.1 Loading Tables

EMERGENCY		NON-EMERGENCY	
CHANNELS	UNITS/CHANNEL	CHANNELS	UNITS/CHANNEL
1 - 5	80	1 - 5	100
6 - 10	85	6 - 10	110
11 - 15	90	11 - 15	125
16 - 20	95	16 - 20	130

Agencies requesting additional frequencies must show loading of 100 percent or greater on their existing system. Should a demand for frequencies exist after assignable frequencies become exhausted, any system having frequencies assigned under this plan four or more years previously and not loaded to at least 70 percent will lose operating authority on a sufficient number of frequencies to bring the system into compliance with the 70 percent loading standard. Frequencies lost in this manner will be reallocated to other agencies to help satisfy the demand for additional frequencies.

4.4.2 Traffic Loading Study

Justification for adding frequencies, or retaining existing frequencies, can be provided by a traffic loading study in lieu of loading by number of transmitters per channel. It will be the responsibility of the requesting agency to provide a verifiable study showing sufficient airtime usage to merit additional frequencies. A showing of airtime usage, excluding telephone interconnect air time, during the peak busy hour greater than 70 percent per channel on three consecutive days will be required to satisfy loading criteria.

4.4.3 Slow Growth

All systems in the 821-824/866-869 MHz bands under this plan will be slow growth in accordance with Section 90.629 of the Commission's Rules.

4.5 Use of Long Range Communications

During incidents of major proportions, where Public Safety requirements might include the need for long-range communications in and out of a disaster area, alternate radio communications plans are to be addressed by Primary Public Safety agencies within this sub-region. These agencies should integrate the appropriate interface to the long distance communications providers. Such long distance radio communications might be amateur radio operations, satellite communications and/or long range emergency preparedness communications systems, any of or all of which should be incorporated as part of the communications plans of those lead agencies. They then could provide the means to communicate outside the area for themselves and the smaller agencies who might need assistance. Instances as addressed in the National Public Safety Planning Advisory Committee's Plan, such as earthquakes, hurricanes, floods, widespread forest fires, or nuclear reactor problems could be a cause for such long-range communications needs.

4.6 Expansion of Existing Systems

Existing systems that are to be expanded to include the frequency bands of 821-824/866-869 MHz will have the mobile radios "grandfathered", provided that they are modified in conformance with the Memorandum Opinion and Order, FCC Docket 87-112. Primarily this involves reducing the modulation to +/- 4 KHz. Existing base stations in the frequency bands 806-821/851-866 MHz may not be used in the frequency bands 821-824/866-869 MHz.

5.0 IMPLEMENTATION AND PROCEDURES

5.1 Notification

Several methods of notification were used to invite interested parties to participate in the development of this plan. Initially, personal contact was made by the "convenor" to all of the major State agency communications users in the State of Kentucky. Announcements were mailed to all Kentucky Police Departments, Sheriff Departments, Sheriff's Association, Fire Departments, Fire Associations, Hospital Associations, Public Safety Radio Vendors, Ambulance Services, State EMS Department, State Department of Forestry, State Department of Fish and Wildlife, Disaster Emergency Services.

Personal contacts were made to many individuals and agencies several weeks prior to the initial meeting. All APCO Chapter members and a large number of other interested parties who had requested notification were sent letters of invitation. During the initial meeting, names, addresses and telephone numbers of those individuals present who wished to either participate in the planning process, or who wanted to be kept informed of the progress of the planning effort were taken. These individuals or agencies were sent all announcements for meetings and bulletins of progress. (See ATTACHMENT 5)

When the work on the plan was completed, a final planning committee meeting was called. This meeting was held at Kentucky State Police Headquarters, 919 Versailles Road, Frankfort, Kentucky on January 22, 1993. Each member of the planning committee was presented with a draft copy of the plan for study. A copy of the final draft was mailed to each member of the committee not present at the meeting. A public notice was placed in the State Journal Newspaper (ATTACHMENT 4) announcing the completion of the plan and the intention to file with the Federal Communications Commission.

5.2 Frequency Allocation Process

The method used for "packing" Region 17 was the APCO computerized method. The approximate geographical location for the center of each county, in latitude and longitude, were provided along with the environmental type of the county and the approximate radius to cover the county lines. Along with this information, a list of frequencies to block along the adjacent region's border was included. The actual assignment of frequencies is for four (4) channel-pairs per county.

5.3 Frequency Allocation Map

Below is the data, or packing plan generated by APCO via the computerized packing program. The first section is channel assignment and then county by county information is provided. The plan took adjacent regions into consideration, in addition, letters of concurrence were sent. (ATTACHMENT 6)

CHANNEL ASSIGNMENTS

Listing of Channel Users

601	Mutual Aid	International Calling Channel		
602	Lewis	KY	Reg 7	KY
602	Reg 3	KY		
603	Spencer	KY	Hancock	KY
603	Clinton	KY	Bracken	KY
604	Johnson	KY	Fulton	KY
604	Fayette	KY	Caldwell	KY
604	Reg 3	KY		
605	Menifee	KY	Cumberland	KY
606	Todd	KY	Hart	KY
606	Reg 11	KY		
607	Spencer	KY	Graves	KY
607	Clark	KY	Reg 16	KY
608	Lincoln	KY	Lewis	KY
608	Christian	KY	Reg 10	KY
609	Union	KY	Graves	KY
609	Breathitt	KY	Reg 5	KY
610	Oldham	KY	Knox	KY
610	Christian	KY		
611	Magoffin	KY	Clark	KY
611	Reg 15	KY	Reg 5	KY
612	Laurel	KY	Hopkins	KY
613	Oldham	KY	Marshall	KY
613	Reg 15	KY	Reg 8	KY
614	Hopkins	KY		
615	Washington	KY	Warren	KY
615	Rowan	KY	Marshall	KY
615	Reg 5	KY		
617	Reg 12	KY		
622	Wayne	KY		
622	Fayette	KY	Reg 9	KY
622	Reg 3	KY		
622	Henderson	KY		

623	Fleming	KY	Reg 11	KY
623	Reg 1	KY		
624	Whitley	KY	Daviess	KY
624	Reg 9	KY	Fayette	KY
625	Greenup	KY	Barren	KY
625	Reg 7	KY		
626	Russell	KY	Pendleton	KY
626	Grayson	KY	Reg 14	KY
627	Oldham	KY	Marion	KY
627	Estill	KY		
628	Knott	KY	Reg 6	KY
629	Garrard	KY	Jefferson	KY
630	Reg 13	KY	Reg 4	KY
631	Woodford	KY	Montgomery	KY
631	Laurel	KY	Boone	KY
632	Harlan	KY	Reg 15	KY
633	Rockcastle	KY	Oldham	KY
633	Morgan	KY	Reg 16	KY
633	Reg 5	KY		
634	Perry	KY	Marshall	KY
634	Reg 15	KY		
635	Pike	KY	Mason	KY
635	Reg 16	KY	Reg 5	KY
637	Reg 12	KY		
638	Boone	KY		
639	Mutual Aid	Law Enforcement Channel		
640	McCreary	KY		
640	Fayette	KY	Elliott	KY
640	Reg 3	KY		
641	Casey	KY	Carroll	KY
641	Calloway	KY	Breckinridge	KY
642	Martin	KY	Edmonson	KY
642	Clinton	KY	Bath	KY
642	Fayette	KY	Henderson	KY

643	Muhlenberg	KY	Carlisle	KY
643	Reg 7	KY		
644	Trigg	KY	Lewis	KY
644	Hardin	KY		
645	Ohio	KY	Morgan	KY
645	Crittenden	KY	Reg 12	KY
646	Marion	KY	Reg 10	KY
647	Owen	KY	Meade	KY
647	Magoffin	KY		
648	Reg 11	KY	Reg 4	KY
648	Reg 1	KY		
649	Owen	KY	Madison	KY
649	Hopkins	KY		
650	Graves	KY	Reg 15	KY
650	Reg 13	KY		
651	Warren	KY	Rowan	KY
651	Madison	KY	Reg 5	KY
652	Perry	KY	Hopkins	KY
652	Reg 15	KY		
653	Pike	KY		
654	Gallatin	Ky	Campbell	KY
655	Nelson	KY	Fayette	Ky
655	Kenton	KY		
657	Reg 2	KY	Fayette	KY
658	Franklin	Ky		
659	Harrison	Ky	Reg 2	KY
660	Owsley	KY	Fulton	KY
660	Carter	KY	Breckinridge	KY
661	Knox	KY	Henry	KY
661	Caldwell	KY	Reg 9	KY
661	Reg 3	KY		
662	Owsley	KY	Jessamine	KY
662	Fleming	KY	Daviess	KY
662	Cumberland	KY		
663	Reg 7	KY	Jefferson	Ky

664	Grayson	KY		
665	Estill	KY	Reg 14	KY
665	Jefferson	Ky		
666	Logan	KY	Lincoln	KY
666	Reg 10	KY	Reg 6	KY
667	Powell	KY	Reg 14	KY
667	Jefferson	Ky		
668	Reg 13	KY	Reg 4	KY
668	Reg 6	KY		
669	Woodford	KY	Laurel	KY
669	Reg 14	KY		
670	Taylor	KY	Gallatin	Ky
670	Reg 13	KY	Kenton	KY
671	Rowan	KY	Robertson	Ky
671	Pulaski	KY	Reg 16	KY
672	Perry	KY	Kenton	Ky
673	Warren	KY		
673	Pike	KY	Livingston	KY
674	Reg 12	KY		
675	Boone	Ky	Reg 2	KY
676	Jefferson	Ky	Fayette	KY
677	Mutual Aid	Fire Services Channel		
678	Logan	KY	Elliott	KY
678	Adair	KY	Fayette	KY
678	Jefferson	KY		
679	Hickman	KY	Hancock	KY
679	Caldwell	KY	Allen	KY
680	Hardin	KY	Reg 7	KY
680	Calloway	KY	Henderson	KY
681	Muhlenberg	KY	Henry	KY
681	Greenup	KY	Carlisle	KY
681	Barren	KY	Reg 10	KY
682	Oldham	KY	Meade	KY
682	Floyd	KY	Boyle	KY
682	Bell	KY		

683	Monroe	KY	Laurel	KY
683	Christian	KY	Reg 8	KY
683	Reg 5	KY		
684	Union	KY	Russell	KY
684	Reg 4	KY		
685	Woodford	KY	Meade	KY
685	Reg 14	KY		
686	Webster	KY	Reg 11	KY
686	Reg 4	KY	Reg 6	KY
687	Madison	KY	Jefferson	Ky
687	Reg 14	KY		
688	Robertson	Ky		
688	Reg 13	KY	Reg 2	KY
689	Pulaski	KY	Gallatin	Ky
690	Marshall	KY	Reg 16	KY
690	Reg 8	KY		
691	Reg 12	KY		
692	Reg 2	KY		
693	Reg 12	KY		
695	Jefferson	Ky	Fayette	KY
698	Harlan	KY	Henderson	KY
698	Calloway	KY	Reg 8	KY
698	Reg 5	KY	Reg 3	KY
699	Butler	KY	Boyd	KY
699	Ballard	KY	Adair	KY
699	Reg 10	KY	Reg 5	KY
700	Reg 7	KY	Daviess	KY
701	Whitley	KY	Meade	KY
701	Edmonson	KY	Reg 9	KY
701	Reg 5	KY		
702	Carter	KY	Boyle	KY
702	Bourbon	Ky		
703	Reg 13	KY	Jefferson	Ky
704	Whitley	KY	Simpson	KY
704	Marion	KY	Reg 6	KY

705	Reg 14	KY	Reg 11	KY
705	Jefferson	Ky		
706	Letcher	KY	Reg 4	KY
706	Reg 6	KY		
707	Trimble	KY		
707	Madison	KY	Carter	KY
708	Nicholas	Ky	Bullitt	KY
708	Reg 13	KY		
709	Rowan	KY	Pulaski	KY
709	Reg 16	KY	Kenton	Ky
710	Nelson	KY	Mason	KY
710	Madison	KY		
711	Warren	KY	Pike	KY
711	Lyon	KY	Gallatin	Ky
713	Reg 12	KY	Reg 2	KY
714	Madison	KY	Franklin	Ky
715	Mutual Aid	Emergency Medical Service		
716	McCreary	KY	Allen	KY
716	Reg 14	KY	Fayette	KY
716	Jefferson	Ky		
717	Russell	KY	Daviess	KY
717	Carroll	KY	Bath	KY
718	Jessamine	KY	Jackson	KY
718	Reg 3	KY	Jefferson	Ky
719	Hickman	KY	Boyle	KY
719	Bourbon	Ky	Bell	KY
719	Reg 9	KY	Henderson	KY
720	Muhlenberg	KY	Barren	KY
720	Reg 10	KY	Jefferson	Ky
721	Montgomery	KY	Floyd	KY
721	Reg 4	KY	Reg 1	KY
722	Union	KY	Reg 11	KY
723	Taylor	KY	Daviess	KY
723	Reg 8	KY	Reg 1	KY
723	Reg 5	KY		

724	Warren	KY		
724	Clay	KY		
725	Reg 15	KY	Reg 8	KY
725	Reg 5	KY		
726	Rockcastle	KY	Oldham	KY
726	Harlan	KY	Reg 2	KY
727	McCracken	KY	Reg 15	KY
727	Reg 8	KY	Reg 5	KY
728	Perry	KY	Reg 16	KY
729	Wolfe	KY	Reg 12	KY
730	McCracken	KY		
731	Reg 12	KY		
733	Grant	Ky	Fayette	KY
734	Nelson	KY		
736	McLean	KY	Edmonson	KY
736	Reg 9	KY	Reg 1	KY
736	Fayette	KY		
737	Clay	KY	Breckinridge	KY
737	Ballard	KY	Adair	KY
738	Montgomery	KY	McLean	KY
738	Larue	KY	Anderson	KY
738	Reg 9	KY		
739	Metcalf	KY	Reg 10	KY
739	Jefferson	Ky		
740	Logan	KY	Knox	KY
740	Floyd	KY	Boyle	KY
740	Bourbon	Ky		
741	Lee	KY		
742	Powell	KY	Letcher	KY
742	Jefferson	Ky		
743	Lawrence	KY	Reg 11	KY
743	Reg 4	KY	Reg 6	KY
744	Woodford	KY	Powell	KY
745	Bullitt	KY	Reg 6	KY

746	Taylor	KY	Reg 13	KY
747	Gallatin	Ky		
748	Wolfe	KY	Mason	KY
748	Reg 16	KY	Reg 15	KY
749	Pike	KY	Lyon	KY
749	Shelby	KY		
751	Reg 12	KY		
753	Mutual Aid	Command and Control		
754	Johnson	KY	Boyd	KY
754	Anderson	KY	Reg 3	KY
755	Casey	KY	Butler	KY
755	Reg 6	KY		
756	McCreary	KY	Johnson	KY
756	Boyd	KY	Allen	KY
756	Reg 1	KY	Jefferson	Ky
756	Henderson	KY		
757	Todd	KY	Metcalfe	KY
757	Reg 7	KY		
758	Trigg	KY	Daviess	KY
758	Bullitt	KY		
759	Simpson	KY	Oldham	KY
759	Clay	KY	Reg 1	KY
760	Webster	KY	Pulaski	KY
760	Reg 8	KY	Shelby	KY
761	Reg 4	KY	Reg 1	KY
762	Nicholas	Ky		
762	Mercer	KY	Reg 13	KY
763	Laurel	KY	Greenup	KY
763	Green	KY	Greenup	KY
763	Christian	KY	Reg 12	KY
764	Magoffin	KY	Graves	KY
765	Pulaski	KY		
766	Warren	KY	Pike	KY
766	Lyon	KY	Reg 12	KY
767	McCracken	KY		

769	Reg 12	KY		
771	Franklin	Ky		
772	Jefferson	Ky		
774	Fulton	KY	Fayette	KY
774	Breckinridge	KY	Reg 9	KY
775	Kenton	KY		
776	Trigg	KY	Martin	KY
776	Hancock	KY	Carroll	KY
776	Reg 7	KY		
777	Barren	KY	Reg 10	KY
777	Reg 1	KY	Jefferson	Ky
778	Scott	KY	Casey	KY
778	Breathitt	KY	Reg 16	KY
779	Livingston	KY	Larue	KY
780	Clark	KY	Christian	KY
780	Reg 13	KY	Jefferson	Ky
781	Jackson	KY	Reg 4	KY
782	Reg 6	KY		
783	Greenup	KY		
783	Bullitt	KY		
784	Taylor	KY	Fayette	KY
785	Morgan	KY	Reg 16	KY
785	Gallatin	Ky		
786	Washington	KY	Livingston	KY
787	Pike	KY	Gallatin	Ky
789	Reg 12	KY		
790	Boone	Ky		
791	Madison	KY	Franklin	Ky
794	Wayne	KY	Fayette	Ky
794	Calloway	KY	Boyd	KY
794	Reg 3	KY		
795	Bracken	Ky	Reg 11	KY

795	Reg 9	KY		
796	Wayne	KY	Fayette	Ky
796	Calloway	KY	Boyd	KY
796	Reg 3	KY		
797	Grant	Ky	Daviess	KY
797	Reg 11	KY	Reg 9	KY
798	Simpson	KY	Mercer	KY
798	Menifee	KY	Hardin	KY
799	Christian	KY	Reg 10	KY
800	Ohio	KY	Lawrence	KY
800	Harlan	KY	Reg 12	KY
801	Trimble	KY	Mercer	KY
801	Lee	KY	Hardin	KY
801	Reg 14	KY	Reg 1	KY
802	Ohio	KY	Greenup	KY
802	Green	KY		
802	Greenup	KY	Reg 12	KY
803	Nicholas	Ky	Lincoln	KY
803	Leslie	KY	Crittenden	KY
804	Graves	KY	Reg 12	KY
805	Hopkins	KY	Reg 8	KY
806	Marshall	KY	Reg 15	KY
806	Kenton	KY		
808	McCracken	KY	Gallatin	Ky
809	Campbell	KY		
810	Reg 12	KY		
811	Franklin	Ky		
812	Harrison	Ky	Campbell	KY
814	Butler	KY	Reg 14	KY
814	Fayette	Ky		
815	Lawrence	KY	Grant	Ky
815	Reg 7	KY		
816	Hickman	KY	Fleming	KY
816	Christian	KY	Bell	KY

817	Hart	KY	Anderson	KY
817	Reg 10	KY		
818	Monroe	KY	Daviess	KY
818	Reg 8	KY		
819	Knott	KY	Harrison	Ky
819	Garrard	KY		
820	Hardin	KY	Christian	KY
820	Carter	KY		
821	Warren	KY	Clark	KY
821	Reg 11	KY	Shelby	KY
822	Nelson	KY		
823	Warren	KY		
823	Madison	KY	Leslie	KY
823	Reg 5	KY		
824	Pulaski	KY	Oldham	KY
825	Washington	KY	Perry	KY
825	Reg 5	KY		
826	Pike	KY	Reg 2	KY
827	McCracken	KY	Reg 12	KY
829	Jefferson	Ky		

CHANNEL ASSIGNMENT BY COUNTY

Lewis	602	608	644				
Reg 7	602 757	625 776	643 815	663	680	700	
Reg 3	602 718	604 754	622 794	640 796	661	698	
Spencer	603	607					
Hancock	603	679	776				
Clinton	603	642					
Bracken	603	795					
Johnson	604	754	756				
Fulton	604	660	774				
Fayette	604 736 784	622 655 794	624 657 796	640 676 814	642 695	678 733	716 774
Caldwell	604	661	679				
Menifee	605	798					
Cumberland	605	662					
Todd	606	757					
Hart	606	817					
Reg 11	606 795	623 797	648 821	686	705	722	743
Graves	607	609	650	764	804		
Clark	607	611	780	821			
Reg 16	607 748	633 778	635 785	671	690	709	728
Lincoln	608	666	803				
Christian	608 820	610	683	763	780	799	816
Campbell	654	808	809	812			

Reg 10	608 777	646 799	666 817	681	699	720	739
Union	609	684	722				
Breathitt	609	778					
Reg 5	609 683 727	611 698 823	615 699 825	633 701	635 723	651 725	
Oldham	610 824	613	627	633	682	726	759
Shelby	749	760	821				
Knox	610	661	740				
Magoffin	611	647	764				
Reg 15	611 727	613 748	632 806	634	650	652	725
Laurel	612	631	669	683	763		
Hopkins	612	614	649	652	805		
Marshall	613	615	634	690	806		
Reg 8	613 760	683 805	690 818	698	723	725	727
Washington	615	786	825				
Warren	615	651	673	711	724	766	821
Rowan	615	651	671	709			
Reg 12	617 713 789	619 729 800	637 731 802	645 751 804	674 763 810	691 766 827	693 769
Wayne	622	794	796				
Reg 9	622 774	624 795	661 797	701	719	736	738
Henderson	622	642	680	698	719	756	
Fleming	623	662	816				
Reg 1	623 761	648 777	721 801	723	736	756	759

Whitley	624	701	704					
Daviess	624 818	662	700	717	723	758	797	
Greenup	625	681	763	783	802			
Barren	625	681	720	777				
Russell	626	684	717					
Pendleton	626							
Grayson	626	664						
Reg 14	626 716	665 801	667 814	669	685	687	705	
Marion	627	646	704					
Estill	627	665						
Knott	628	819						
Reg 6	628 745	666 755	668 782	686	704	706	743	
Garrard	629	819						
Jefferson	629 703 772	663 705 777	665 716 780	667 718 829	676 720	687 739	695 742	678 756
Reg 13	630 746	650 762	668 780	670	688	703	708	
Reg 4	630 743	648 761	668 781	684	686	706	721	
Woodford	631	669	685	744				
Montgomery	631	721	738					
Boone	631	638	675	790				
Harlan	632	698	726	800				
Rockcastle	633	726						
Morgan	633	645	785					
Perry	634	652	672	728	825			

Pike	635 826	653	673	711	749	766	787
Mason	635	710	748				
McCreary	640	716	756				
Elliott	640	678					
Casey	641	755	778				
Carroll	641	717	776				
Calloway	641	680	698	794	796		
Breckinridge	641	660	737	774			
Martin	642	776					
Edmonson	642	701	736				
Bath	642	717					
Muhlenberg	643	681	720				
Carlisle	643	681					
Kenton	655	670	672	709	775	806	
Trigg	644	758	776				
Hardin	644	680	798	801	820		
Ohio	645	800	802				
Crittenden	645	803					
Owen	647	649					
Meade	647	682	685	701			
Madison	649 823	651	687	707	710	714	791
Gallatin	654 785	689 787	711 808	747			
Nelson	655	710	734	822			
Reg 2	657 826	659	675	688	692	713	726
Franklin	658	714	771	791	811		

Harrison	659	812	819		
Owsley	660	662			
Carter	660	702	707	820	
Henry	661	681			
Jessamine	662	718			
Logan	666	678	740		
Powell	667	742	744		
Taylor	670	723	746	784	
Robertson	671	688			
Pulaski	671	689	709	760	765 824
Livingston	673	779	786		
Adair	678	699	737		
Hickman	679	719	816		
Allen	679	716	756		
Floyd	682	721	740		
Boyle	682	702	719	740	
Bell	682	719	816		
Monroe	683	818			
Webster	686	760			
Butler	699	755	814		
Boyd	699	754	756	794	796
Ballard	699	737			
Bourbon	702	719	740		
Simpson	704	759	798		
Letcher	706	742			
Trimble	707	801			
Nicholas	708	762	803		

Bullitt	708	745	758	783
Lyon	711	749	766	
Jackson	718	781		
Clay	724	737	759	
McCracken	727	730	767	808 827
Wolfe	729	748		
Grant	733	797	815	
McLean	736	738		
Larue	738	779		
Anderson	738	754	817	
Metcalf	739	757		
Lee	741	801		
Lawrence	743	800	815	
Mercer	762	798	801	
Green	763	802		
Scott	778			
Leslie	803	823		

State Police Regions

Region 1

Ballard
Calloway
Carlisle
Fulton
Graves
Hickman
Livingston
Lyon
McCracken
Marshall
Trigg

Region 2

Caldwell
Christian
Crittenden
Hopkins
Muhlenberg
Todd
Webster

Region 3

Allen
Barren
Butler
Edmondson
Hart
Logan
Simpson
Warren

Region 4

Breckinridge
Bullitt
Grayson
Hardin
Jefferson
Larue
Meade
Nelson

Region 5

Carroll
Gallatin
Henry
Oldham
Owen
Trimble

Region 6

Boone
Bourbon
Bracken
Campbell
Grant
Harrison
Kenton
Nicholas
Pendleton
Robertson

Region 7

Boyle
Clark
Estill
Garrard
Jackson
Jessamine
Lee
Lincoln
Madison
Mercer
Owsley

Region 8

Bath
Elliott
Fleming
Lewis
Mason
Menifee
Montgomery
Morgan
Powell
Rowan
Wolfe

Region 9

Floyd
Johnson
Magoffin
Martin
Pike

Region 10

Bell
Harlan
Knox

Region 11

Clay
Laurel
McCreary
Pulaski
Rockcastle
Wayne
Whitley

Region 12

Anderson
Fayette
Franklin
Scott
Shelby
Spencer
Woodford

Region 13

Breathitt
Knott
Leslie
Letcher
Perry

Region 14

Boyd
Carter
Greenup
Lawrence

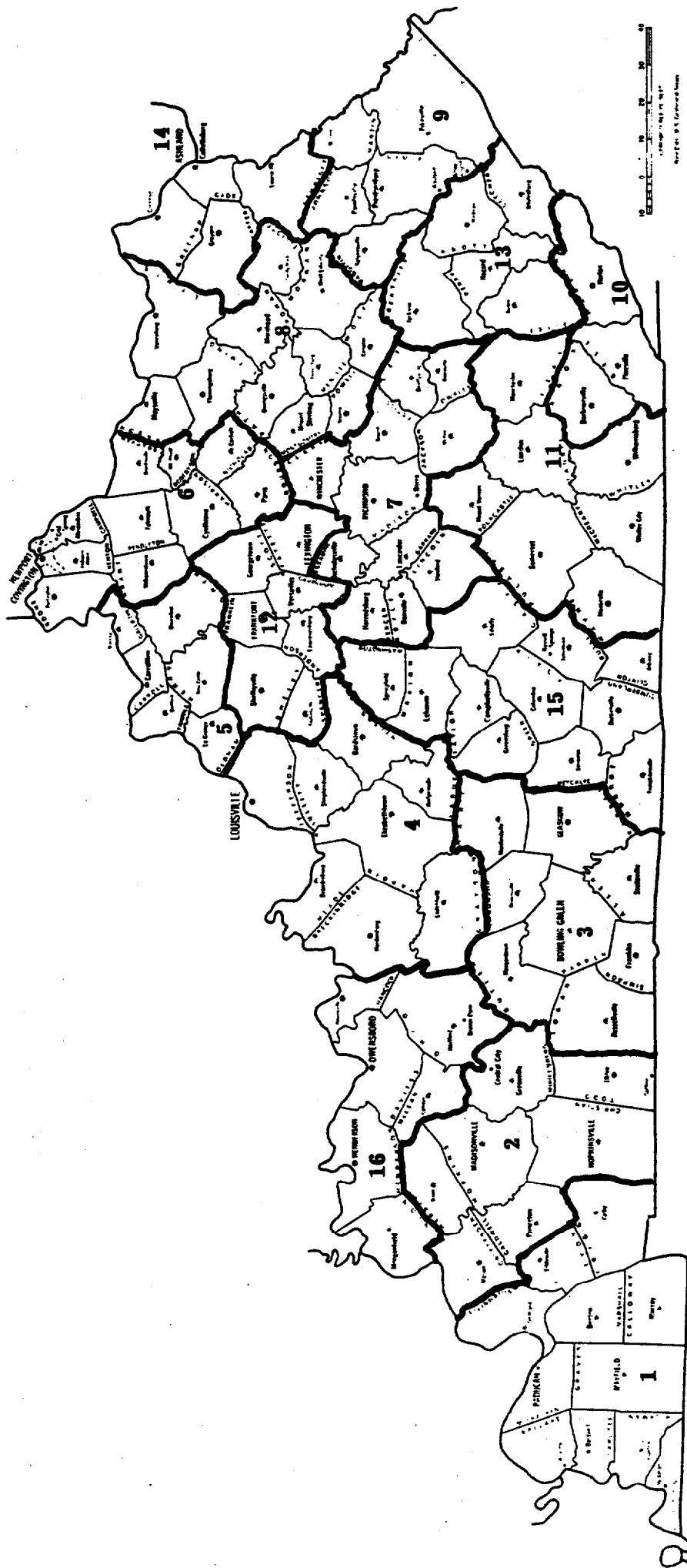
Region 15

Adair
Casey
Clinton
Cumberland
Green
Marion
Metcalf
Monroe
Russell
Taylor
Washington

Region 16

Daviess
Hancock
Henderson
Mclean
Ohio
Union

KENTUCKY STATE POLICE POST AREAS



- | | | | | | | | |
|--------|---------------|--------|-----------|---------|-----------|---------|-----------|
| Post 1 | Mayfield | Post 5 | LaGrange | Post 9 | Pikeville | Post 13 | Pikeville |
| Post 2 | Madisonville | Post 6 | Dry Ridge | Post 10 | Harlan | Post 14 | Ashland |
| Post 3 | Bowling Green | Post 7 | Richmond | Post 11 | London | Post 15 | Columbia |
| Post 4 | Elizabethtown | Post 8 | Morehead | Post 12 | Frankfort | Post 16 | Henderson |

5.5 Allocation of Channels

Based on adjacent regions channel assignments and the probability of adjacent channel interference within Region 17 the frequency sorting program was not able to allocate any unassigned channels.

5.6 Assignment Statistics

Maximum field strength for co-channel operation is 5 Dbu

Maximum field strength for adjacent channel operation is 25 Dbu

Total number of channels assigned 205

Total number of unassigned channels 24

Total number of reserved channels 0

5.7 Expansion of Initial Allocation

In the event that the allocation for any county becomes depleted, the Region Review Committee shall meet to make further allocations to said county. Should this occur, the applying agency or entity shall submit the proper license and coordination applications with all applicable fees, as in any other licensing request. Allocations will be made based on the initial frequency allocation plan as mentioned above.

5.8 Application Process

This section describes briefly the application process to assist any applicants. Application shall be submitted to the Kentucky APCO Frequency Advisor to be processed. The applications to be licensed in the 821-824/866-869 MHz frequency bands will be subject to review by the APCO Local Advisor. At his/her discretion the application will be submitted to the KRCRC if there is any discrepancies. The application can be rejected at the Regional level for non-conformance with this Plan. Items that should be included with the application at a minimum are service--what tasks or duties are the agency/applicant charged with accomplishing; system type--describe radio system(trunked, conventional, voice, data, voice/data combined, etc.);

intersystem interoperability--how the applying organizations will communicate or public safety entities will communicate; channel loading factors--equipment inventory totals that will be employed in the system and maximum number of mobile radios potentially in use at a given time; coverage area--details of an engineering survey showing the radio coverage required for minimum coverage(40 DBU); vacated frequency returned--which frequencies the agency/ies will release for potential re-assignment; implementation schedule--an explanation of any budgetary commitment and a proposed time frame for putting equipment into service.

5.9 Prioritization of Applicants

A very simple method of prioritization has been chosen for use in this Region. In order to facilitate future problems which may arise, the following rating system shall be used.

Prioritization shall be done according to a final score, based on applicant criteria. The highest score, in points, shall be given priority in a situation where spectrum is insufficient to fulfill the needs of all.

- Public Safety Agencies..... 2 Points
- Public Services Agencies..... 1 Point
- Multi-agency Systems..... 2 Points
- Multi-agency/Multi Jurisdiction Systems... 3 Points
- Single Agency/Jurisdiction Systems..... 1 Point

5.10 Appeal Process

At any time, any applicant may appeal an allocation, rejection, or any limits placed on a particular application for any reason. The appeal process has two levels; the Kentucky Region Conformance Review Committee, and the FCC. An applicant who decides to appeal a rejection should initiate that appeal immediately upon notification of rejection. In the event that an appeal reaches the FCC, their decision will be final and binding upon all parties.

6.0 THE REGION PLANNING COMMITTEE

CHAIRPERSON: Jack Y. Sharp

NAME	Jack Y. Sharp
AGENCY AFFILIATION	Kentucky State Police
ADDRESS	1240 Airport Road
CITY	Frankfort, Ky 40601
PHONE NUMBER	502 227-8750

MEMBERS OF THE REGIONAL PLANNING COMMITTEE

Paul Buse
Jefferson County Police
3528 Newburg Road
Louisville, KY 40218

Mike Starcher
1306 Bardstown Road
Louisville, KY 40204

Bob Boston
Public Safety Comm. Center
7431 U.S. 52
Florence, KY 41042

A.B. Snowden
Mount Sterling PD
36 Broadway
Mount Sterling, KY 40353

Ron McBride
Ashland PD
1700 Greenup
Box 1864
Ashland, KY 41105-1864

Sam Cantron
Pulaski County Sheriff
Somerset, KY 42501

Richard Payne
Daviness County Sheriff
Owensboro, KY 42303-0100

Sheriff Ted Collins
Post Office Box F
Frankfort, KY 40601

Frank Fryman
Division of Communications
121 N Martin Luther King
Lexington, KY 40507

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Campbellsville PD
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Ted Evans
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Tom Schwartz
Boone Co PD
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Burlington, KY 41005

Galen Kiser
DES Boone Center
Room 13 EDC Building
Frankfort, KY 40601

Dick Bartlett
Louisville EMS
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Louisville, KY 40208

Bob Calhoun
Dept of Health Services
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Frankfort, KY 40601

Lt William Lisanby
Lexington PD
122 Paris Avenue
Lexington, KY 40504

Ralph Quarles
Dept of Transportation
Wilkerson Blvd
Louisville, KY 40208

Charles Prather
Dept of Forestry
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Frankfort, KY 40601

Kevin Sloas
Rowan County Ambulance
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Morehead, KY 40351

Steve Calhoun
Hopkinsville Fire Dept
116 West 1st
Hopkinsville, KY 42240

Gale Clark
G.E. Mobile Communications
2061 Regency Circle
Lexington, KY 40601

Paul Warnecke
U.S. 127 South
Div of Telecommunications
Frankfort, KY 40601

Dave Steinwert
Motorola Suite 112
4440 Lake Forrest Drive
Cincinnati, OH 45242

Chief George Pennington
Frankfort EMS
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Frankfort, KY 40601

Walter Atherton
4005 Court Dijon
Owensboro, KY 42303-7925

Bill Stewart
Communication Section
1240 Airport Road
Frankfort, KY 40601

Brian O'Reel
Communication Section
1240 Airport Road
Frankfort, KY 40601

Captain Bob Stallins
Communication Section
1240 Airport Road
Frankfort, KY 40601

Ron Meadows
219 East Third Street
Lexington, KY 40508

Larry Scott
Telecommunications
100 Fair Oaks Lane
Frankfort, KY 40601

Glenda James, Director EOC
510 Clark Street
Paducah, KY 42002

Adjutant General Office
Boone National Guard Ctr
Frankfort, KY 40601

Denisa Maffett
242 Woodhill Lane
Frankfort, KY 40601

- ATTACHMENT 1 Final Meeting Notice**
- ATTACHMENT 2 Census Population Projections**
- ATTACHMENT 3 Demographic Information**
- ATTACHMENT 4 Public Notice of Intent to File**
- ATTACHMENT 5 Listing of First Meeting Attendees**
- ATTACHMENT 6 Adjacent Regions Notification of Intent to File**

800 MHz Regional Planning Committee
Region 17
1240 Airport Road
Frankfort, Kentucky 40601

January 25, 1993

Minutes

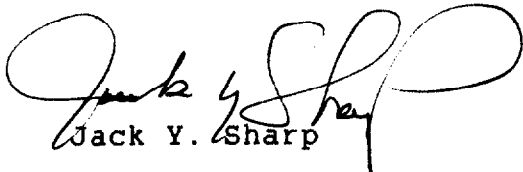
The meeting was called to order at 9:00 am est by the Chairman, Mr. Jack Y. Sharp. Mr. Sharp reviewed with the committee how we got to where we are today. The frequency sort has taken a very long time. The present plan is a copy of a generic plan with addition that pertain to Kentucky.

A page by page review of the Kentucky 800 Mhz Plan was then conducted.

Motion made by Mr. Buse to have the plan reflect geographical areas of frequency assignment (i.e. instead of having Louisville and then Jefferson County; just have Jefferson County and the same with Fayette/Lexington.) Seconded by Mr. Warnecke. Passed unanimously.

Motion made by Mr. Warnecke that the Ky Plan be submitted to the Federal Communications Commission subject to proofing and the changes that were recommended above. Seconded by Mr. Payne. Passed unanimously.

Mr. Stallins moved for adjournment. Seconded by Mr. Nevin. Passed unanimously.


Jack Y. Sharp

JYS:mgh

800 MHz Regional Planning Committee
Region 17
1240 Airport Road
Frankfort, Kentucky 40601

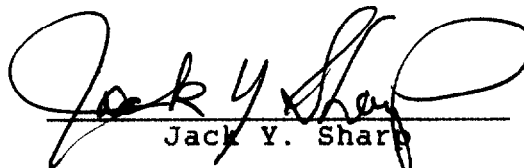
M E M O R A N D U M

TO: Region 17, 800 Mhz Planning Committee
FROM: Jack Y. Sharp, Chairman
DATE: January 8, 1993
SUBJECT: Final Meeting 800 Mhz Plan Committee

It has been several months since we last met and worked on the 800 Mhz Plan for Kentucky. I spent many long hours working with the Associated Public-safety Communications Officers, Inc (APCO) National Office attempting to get a frequency sort plan for Kentucky. I finally completed that task about a week ago. Furthermore, APCO has a generic 800 Mhz plan that has been acceptable to the Federal Communications Commission (FCC). I have merged our plan and the generic plan in an attempt to make it acceptable to the FCC.

I have attached a copy of our plan for your review. I have also scheduled a meeting of our committee on January 22, 1993 beginning at 9:00 am at the Kentucky State Police Headquarters Building, 919 Versailles Road, Frankfort, Kentucky. It is important that everyone attends. The plan has to be to the FCC no later than January 29th at close of business. Make every effort to attend this meeting or send a representative. No response to this notification is acknowledgment of approval.

I thank you in advance, and if you have any questions, I can be contacted at 502-227-8750.


Jack Y. Sharp

JYS:mgh

Attachment:

REGION 17 - KENTUCKY

800 Mhz Plan Meeting

January 22, 1993

Members in Attendance:

Jack Y. Sharp	Ky State Police Chairman
Richard Payne	Daviess County Sheriff Department
Kevin Sloas	Morehead-Rowan County Ambulance
Robert Calhoun	Ky Dept of Health-EMS Branch
Galen Kiser	Ky Disaster Emergency Service
Brian O'Reel	Ky State Police
Ralph Quarles	Ky Dept of Transportation
Tom Kathman	Florence Police Department
Tom Schwartz	Boone County Police Department
Bob Boston	Boone County Police Department
Charles R. Callen	Florence Police Department
Daniel L. Mayes	Ashland Public Safety Comm Ctr.
Joan Penick	Covington Police Department
Gale Clark	Ericson General Electric
Paul Warnecke	Ky Div of Telecommunications
Larry Scott	Ky Div of Telecommunications
Don Morris	Louisville EMS
Paul Buse	Jefferson County Police Department
Bob Stallins	Ky State Police
Bill Stewart	Ky State Police
John Nevin	Louisville/Jefferson County DES
Charles Prather	Ky Dept of Forestry
David Steinwert	Motorola C & E

Region 17 800MHz PLAN

<u>Name</u>	<u>Organization</u>	<u>Telephone</u>
Jacky Sharp	Ky State Police	502 227-8750
Richard Payne	Daviess Co. Sheriff's Dept.	502-685-8444
Kevin Sloan	Murford-Rowan Co. EMS	606-783-0063
Robert Calhoun	EMS Brand, Ky Dept Health	(502) 524-8963
Galen Kiser	Ky DES	502 564-8617
Brian Orl	KSP	502-227-8750
Ralph Quarles	KY. D.O.T.	502-564-3935
Tom Kathman	Florence PD	606-371-3927
Tom Schwartz	Boone Co PD	606-334-2157
Bob Boston	Boone Co PSCC	606-371-3922
Charles R. Callen	Florence Police	606-371-3927
Daniel L. Mayes	RPSCC Ashland	606-329-2191
Joan Penick	Covington Police	606-292-2205
Hale Clark	EGE Mobile	606-272-5293
Paul Warnecke	KY. Div. of Telecommunications	502-564-5246
Larry Scott	"	502-564-8745
Don Morris	L. E. H. S. Communications	502-625-3530
Paul Base	JCPD	502 454 4674
Bob Fallick	KSP	502-227-8750
Bill Stewart	KSP	"
John Nevin	L/JC DES	502 625-3900
CHARLES PRATHIN	FORESTRY	502/564-4496
David Steinworth	Motorola C&E Inc.	1-800-527-7049.

**How Many Kentuckians:
Population Forecasts, 1985-2020
The 1988 Edition**

**Population Studies Program
Urban Studies Center
College of Urban and Public Affairs
University of Louisville**

Fall 1988

Table 4

Population Projections for Kentucky and Counties

	<u>1990</u>	<u>1995</u>	<u>1990</u>	<u>1995</u>	<u>2000</u>	<u>2010</u>	<u>2020</u>
Kentucky	3,660,777	3,728,540	3,847,018	3,959,645	4,053,537	4,185,811	4,252,057
Adair	15,233	15,825	16,490	17,123	17,549	17,998	18,172
Allen	14,128	14,486	14,959	15,394	15,725	16,186	16,529
Anderson	12,567	13,514	14,859	16,186	17,266	18,925	20,141
Ballard	8,798	8,347	8,216	8,112	8,016	7,736	7,346
Barren	34,009	34,594	34,662	34,761	34,776	34,351	33,233
Bath	10,025	10,096	10,170	10,261	10,341	10,341	10,085
Bell	34,330	34,395	34,924	35,501	36,045	36,660	36,785
Boone	45,842	51,359	56,387	61,169	65,125	71,577	76,696
Bourbon	19,405	19,320	19,815	20,292	20,634	20,999	21,094
Boyd	55,513	53,876	52,642	51,507	50,464	47,769	44,198
Boyle	25,066	25,392	26,264	27,091	27,654	28,155	28,111
Bracken	7,738	7,533	7,721	7,940	8,109	8,320	8,452
Breathitt	17,004	16,357	17,231	18,118	18,909	20,192	21,146
Breckinridge	16,861	17,118	17,454	17,797	18,073	18,417	18,527
Bullitt	43,346	45,850	49,537	53,221	56,284	60,313	62,184
Butler	11,064	11,211	11,148	11,127	11,115	11,052	10,825
Caldwell	13,473	13,307	13,214	13,107	13,009	12,792	12,564
Calloway	30,031	29,998	30,035	29,915	29,656	28,836	27,720
Campbell	83,317	80,936	80,552	80,184	79,938	78,913	77,049
Carlisle	5,487	5,105	5,030	5,007	4,993	4,966	4,883
Carroll	9,270	9,769	10,145	10,490	10,762	11,162	11,440
Carter	25,060	25,420	26,381	27,391	28,345	29,813	30,724
Casey	14,818	14,890	15,256	15,668	16,029	16,553	16,876
Christian	66,878	64,988	68,059	71,370	75,230	83,547	91,297
Clark	28,322	29,100	29,827	30,518	31,105	31,785	31,788
Clay	22,752	23,618	25,133	26,648	27,998	30,252	32,002
Clinton	9,321	9,905	10,392	10,875	11,221	11,650	11,810
Crittenden	9,207	8,898	8,818	8,747	8,701	8,561	8,374
Cumberland	7,289	7,344	7,573	7,769	7,891	8,064	8,187
Davess	85,949	88,590	90,350	91,944	93,275	94,950	95,106
Edmonson	9,962	10,722	10,982	11,214	11,383	11,453	11,229
Elliott	6,908	6,665	6,897	7,147	7,342	7,575	7,592
Estill	14,495	15,031	15,589	16,203	16,769	17,639	18,254
Fayette	204,165	216,194	228,481	238,160	244,932	255,038	261,727
Fleming	12,323	12,341	12,904	13,458	13,882	14,471	14,900
Floyd	48,764	49,682	52,592	55,379	57,766	61,467	63,890
Franklin	41,830	43,800	44,340	44,747	44,994	44,689	43,279
Fulton	8,971	8,146	7,896	7,392	7,228	7,021	6,804
Gallatin	4,842	4,859	5,000	5,116	5,188	5,200	5,109
Garrard	10,853	11,484	12,134	12,749	13,187	13,743	14,031
Grant	13,308	14,031	14,995	15,953	16,773	18,092	19,163
Graves	34,049	33,093	32,754	32,533	32,353	31,855	31,185
Grayson	20,854	21,864	22,941	23,993	24,854	26,153	27,116
Green	11,043	10,840	10,824	10,801	10,745	10,452	10,005
Greene	39,132	38,120	37,968	37,930	37,920	37,049	35,062
Hancock	7,742	8,035	8,369	8,708	9,037	9,518	9,752
Hardin	88,917	95,295	101,909	108,345	114,659	127,586	140,109
Harlan	41,889	41,441	42,267	43,183	44,126	45,517	46,164
Harrison	15,166	15,769	16,561	17,291	17,872	18,809	19,624
Hart	15,402	15,289	16,011	16,625	17,075	17,603	17,847
Henderson	40,849	42,284	43,696	44,965	46,014	47,576	48,447
Henry	12,740	13,400	14,038	14,672	15,137	15,734	16,177
Hickman	6,065	5,691	5,472	5,288	5,129	4,837	4,542
Hopkins	46,174	46,762	47,873	49,008	49,994	51,469	52,283
Jackson	11,996	12,505	13,440	14,380	15,195	16,525	17,613
Jefferson	685,004	681,511	680,213	678,564	676,196	664,742	644,973
Jessamine	26,146	28,484	30,644	32,685	34,437	37,380	39,412
Johnson	24,432	25,817	27,071	28,292	29,360	31,082	32,259
Kenton	137,058	137,171	141,072	144,534	147,510	152,050	154,211

Table 4 (Continued)

Population Projections for Kentucky and Counties

	1980	1985	1990	1995	2000	2010	2020
Knott	17,940	18,150	19,492	20,791	21,900	23,690	25,158
Knox	30,239	30,027	31,469	32,949	34,256	36,329	37,915
Larue	11,922	12,102	12,074	12,053	12,013	11,784	11,337
Laurel	38,982	41,945	45,870	49,749	53,023	58,680	63,628
Lawrence	14,121	14,702	15,753	16,823	17,788	19,393	20,754
Lee	7,754	7,909	8,246	8,596	8,913	9,463	9,897
Leslie	14,882	15,304	15,870	16,434	16,992	17,837	18,148
Letcher	30,687	30,261	31,199	32,229	33,264	34,847	35,719
Lewis	14,545	14,265	14,594	14,980	15,338	15,790	15,929
Lincoln	19,053	19,161	20,001	20,861	21,586	22,622	23,310
Livingston	9,219	9,091	9,034	8,967	8,872	8,565	8,116
Logan	24,138	25,262	26,855	28,424	29,715	31,832	33,604
Lyon	6,490	6,435	6,599	6,737	6,786	6,755	6,869
McCracken	61,310	60,675	60,132	59,594	59,090	57,687	55,793
McCreary	15,634	16,456	17,861	19,312	20,550	22,627	24,509
McLean	10,090	10,027	10,101	10,210	10,307	10,388	10,305
Madison	53,352	55,051	56,391	57,588	58,506	59,502	59,041
Maggoffin	13,515	14,171	15,094	16,068	16,949	18,441	19,569
Marion	17,910	17,561	17,921	18,349	18,777	19,473	19,874
Marshall	25,637	26,031	26,683	27,159	27,304	27,000	26,239
Martin	13,925	14,220	14,914	15,648	16,381	17,574	18,309
Mason	17,765	17,208	16,943	16,749	16,599	16,122	15,530
Meade	22,854	23,481	24,395	25,313	26,172	27,368	27,859
Menifee	5,117	5,270	5,456	5,656	5,821	6,061	6,186
Mercer	19,011	19,860	20,686	21,449	21,988	22,644	23,034
Metcalfe	9,484	9,929	10,487	11,023	11,431	12,006	12,479
Monroe	12,353	12,377	12,490	12,632	12,738	12,867	12,878
Montgomery	20,046	20,410	21,061	21,682	22,192	22,736	22,599
Morgan	12,103	11,852	11,951	12,107	12,290	12,551	12,605
Muhlenberg	32,238	31,670	32,250	32,830	33,351	34,069	34,249
Nelson	27,584	29,122	31,251	33,323	35,045	37,914	40,355
Nicholas	7,157	7,224	7,424	7,645	7,818	8,103	8,258
Ohio	21,765	21,444	21,539	21,704	21,891	21,995	21,779
Oldham	27,795	31,660	35,464	39,362	42,679	47,750	51,241
Owen	8,924	9,288	9,815	10,368	10,815	11,521	11,915
Owsley	5,709	5,578	6,005	6,474	6,864	7,517	8,091
Pendleton	10,989	10,949	11,276	11,629	11,948	12,394	12,660
Perry	33,763	34,659	36,482	38,311	39,977	42,666	44,567
Pike	81,123	82,143	86,158	89,956	93,025	96,700	97,328
Powell	11,101	11,841	12,773	13,728	14,577	16,027	17,210
Pulaski	45,803	48,859	51,027	53,015	54,372	55,790	55,965
Robertson	2,265	2,231	2,179	2,164	2,128	2,040	1,939
Rockcastle	13,973	14,495	15,328	16,162	16,824	17,778	18,487
Rowan	19,049	19,285	19,383	19,391	19,336	19,057	18,563
Russell	13,708	14,863	15,294	15,678	15,909	16,021	15,877
Scott	21,813	21,877	25,322	27,213	28,979	32,280	35,193
Shelby	23,328	24,109	25,032	25,948	26,677	27,654	28,196
Simpson	14,673	14,896	15,134	15,395	15,652	15,957	16,085
Spencer	5,929	6,204	6,560	6,918	7,215	7,639	7,905
Taylor	21,178	21,985	22,248	22,483	22,603	22,492	21,865
Todd	11,874	10,949	10,403	10,023	9,787	9,422	9,011
Trigg	9,384	9,870	10,213	10,519	10,707	10,817	10,856
Trimble	6,253	6,315	6,487	6,673	6,852	7,019	7,058
Union	17,821	17,587	17,719	17,894	18,145	18,547	18,684
Warren	71,828	79,591	88,797	97,663	105,004	117,905	128,254
Washington	10,764	10,286	10,081	9,927	9,827	9,623	9,314
Wayne	17,022	17,542	18,432	19,312	20,088	21,284	22,138
Webster	14,832	14,642	14,630	14,691	14,836	15,107	15,223
Whitley	33,396	35,132	37,783	40,366	42,514	46,165	49,419
Wolfe	6,898	6,892	7,208	7,503	7,775	8,280	8,654
Woodford	17,778	18,692	19,722	20,697	21,481	22,484	22,822

Table 1 Selected Social Characteristics: 1990

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons 18 years and over		Persons who speak a language other than English at home		Family households		Female householders, as head of household			
	Total	Percent foreign born	Total	Percent living in different language household in 1985	Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
The State	3 685 296	9	3 494 983	49.3	28 048	37.3	1 021 747	49.3	821 229	46.3	153 746	54.2		
Adair County	15 347	1	14 480	43.5	216	72.6	4 399	45.0	3 755	44.8	474	48.3		
Adams County	1 186	1	1 072	37.5	54	100.0	325	42.5	325	45.8	12	52.4		
Allen County	1 286	1	1 205	45.0	54	100.0	395	50.6	353	47.0	290	52.1		
Anderson County	3 917	1	3 533	46.2	35	100.0	1 056	44.3	959	43.5	203	59.1		
Andrew County	3 845	1	3 628	32.2	6	100.0	1 931	48.8	1 799	41.4	31	58.1		
Artikles County	2 251	1	2 133	29.8	185	68.2	345	48.8	303	51.2	49	46.9		
Ashe County	2 172	1	2 045	43.0	21	76.3	619	44.1	546	43.8	71	36.6		
Asheville County	14 528	2	13 599	39.3	16	57.6	4 338	48.0	3 823	47.0	427	54.2		
Asheville City	2 232	1	2 041	38.2	31	100.0	671	46.7	627	47.0	50	54.0		
Asheville City (sp.)	1 401	1	1 461	39.2	12	100.0	31	46.7	401	57.1	35	60.0		
Asheville City (sp.)	1 304	1	1 299	40.8	9	100.0	442	37.5	401	48.1	31	38.7		
Asheville City (sp.)	7 372	1	6 897	43.8	15	40.0	2 173	47.6	1 850	45.9	271	53.9		
Asheville City (sp.)	4 278	1	3 994	45.7	14	100.0	1 235	47.9	1 059	45.8	229	52.8		
Asheville City (sp.)	2 092	1	1 947	33.5	13	100.0	684	46.2	608	43.3	40	85.0		
Asheville City (sp.)	14 571	4	13 545	40.9	67	46.3	4 331	50.4	3 704	49.3	484	60.7		
Asheville City (sp.)	2 794	4	2 607	34.0	4	100.0	526	33.8	480	53.1	25	64.0		
Asheville City (sp.)	10 508	4	9 744	31.9	14	100.0	437	54.2	364	54.7	52	59.4		
Asheville City (sp.)	5 911	4	5 482	44.7	41	36.8	1 764	48.7	1 434	47.1	278	61.3		
Asheville City (sp.)	7 902	3	7 436	34.3	47	29.8	2 315	44.7	1 990	44.8	243	54.3		
Asheville City (sp.)	1 344	1	1 253	34.2	22	9.1	302	33.1	309	49.8	47	47.2		
Asheville City (sp.)	7 119	3	6 648	44.0	6	33.3	2 152	44.9	1 855	44.2	32	67.3		
Asheville City (sp.)	3 962	2	3 707	34.6	15	59.1	1 015	44.2	915	44.2	99	50.5		
Asheville City (sp.)	3 346	1	3 244	36.6	8	100.0	1 114	35.1	94	34.5	15	13.3		
Asheville City (sp.)	1 001	1	975	44.5	8	54.3	278	43.9	233	43.2	37	57.7		
Asheville City (sp.)	2 594	2	2 476	30.9	11	54.5	772	46.2	656	41.3	48	48.1		
Asheville City (sp.)	98	1	90	70.4	3	75.0	28	57.1	25	39.4	3	100.0		
Asheville City (sp.)	685	1	600	41.6	8	50.0	237	43.0	193	39.4	34	53.9		
Asheville City (sp.)	34 001	3	31 834	42.3	219	45.7	9 931	46.0	8 548	44.9	1 499	51.4		
Asheville City (sp.)	3 288	1	3 056	38.8	48	48.2	1 407	44.8	1 269	44.8	171	44.4		
Asheville City (sp.)	1 951	1	1 808	39.3	5	37.1	568	42.8	499	39.6	93	53.8		
Asheville City (sp.)	551	1	518	38.2	8	37.5	152	40.4	131	48.5	18	72.2		
Asheville City (sp.)	18 088	6	16 964	45.1	77	33.8	5 045	44.5	4 182	44.5	701	54.8		
Asheville City (sp.)	12 351	3	11 597	48.0	40	15.0	3 323	48.3	2 760	42.1	640	58.1		
Asheville City (sp.)	2 779	3	2 599	43.1	18	72.2	859	47.7	760	47.7	56	37.5		
Asheville City (sp.)	207	1	195	36.4	2	100.0	78	25.6	64	25.0	8	50.0		
Asheville City (sp.)	2 047	1	1 912	39.5	39	33.3	624	43.6	578	43.6	41	22.0		
Asheville City (sp.)	3 045	1	2 890	37.4	11	100.0	851	30.3	764	49.5	55	61.8		
Asheville City (sp.)	9 675	1	9 045	34.0	37	56.8	3 644	44.2	3 164	42.0	65	29.2		
Asheville City (sp.)	3 197	2	2 965	36.0	31	12.9	1 339	43.9	1 229	43.9	371	54.6		
Asheville City (sp.)	3 178	1	2 952	36.8	48	37.5	1 479	45.9	1 263	45.8	187	49.7		
Asheville City (sp.)	2 476	1	2 400	34.0	17	42.0	422	37.9	314	34.4	96	51.0		
Asheville City (sp.)	2 648	2	2 476	31.4	62	32.3	798	44.1	622	42.1	104	76.9		
Asheville City (sp.)	1 321	1	1 270	35.2	6	64.7	82	61.0	58	56.9	18	61.1		
Asheville City (sp.)	1 828	1	1 727	40.0	7	57.1	543	41.1	444	40.8	80	46.3		
Asheville City (sp.)	31 504	2	29 407	42.9	100	34.0	9 900	40.0	8 644	42.2	1 7	26.3		
Asheville City (sp.)	2 057	1	1 944	37.0	268	34.4	842	51.2	6 796	51.7	1 094	50.4		
Asheville City (sp.)	14 844	3	13 802	34.9	50	42.0	4 582	48.3	3 135	48.3	928	54.4		
Asheville City (sp.)	11 348	4	10 555	38.8	39	25.9	3 291	47.4	2 442	46.2	788	53.0		
Asheville City (sp.)	1 348	1	1 270	33.8	14	31.7	315	34.6	2 442	44.8	304	56.3		
Asheville City (sp.)	2 175	1	2 015	36.1	16	42.1	551	36.9	379	44.8	204	56.3		
Asheville City (sp.)	1 322	1	1 237	38.1	11	100.0	374	40.0	313	43.3	74	25.0		
Asheville City (sp.)	1 953	1	1 825	33.5	1	27.7	15 713	54.5	13 496	53.7	1 684	62.5		
Asheville City (sp.)	57 589	12	52 971	39.4	405	28.8	15 713	48.3	13 496	53.7	1 684	62.5		
Asheville City (sp.)	8 758	10	7 944	47.1	79	28.8	1 235	48.3	1 045	53.4	284	74.8		
Asheville City (sp.)	4 977	1.4	4 515	51.1	49	40.0	1 337	50.1	1 045	53.4	189	80.0		
Asheville City (sp.)	34 126	1.6	31 972	43.0	239	38.8	9 276	44.0	7 976	53.4	1 072	63.4		
Asheville City (sp.)	1 073	1.7	1 055	54.5	18	37.7	4 024	23.8	4 024	23.8	15	100.0		
Asheville City (sp.)	18 424	1.8	17 170	48.4	123	34.8	4 024	23.8	4 024	23.8	15	100.0		
Asheville City (sp.)	4 034	2.0	3 773	51.2	21	44.7	1 271	24.3	1 236	24.3	6	50.4		
Asheville City (sp.)	4 978	1.3	4 647	44.7	15	44.7	1 271	24.3	1 236	24.3	6	50.4		
Asheville City (sp.)	5 599	1.4	5 284	48.2	26	23.1	1 525	53.4	1 357	54.6	6	37.3		

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Persons with own children under 18 years	Persons with own children under 18 years	Persons with own children under 18 years
	Total	Percent foreign born	Total	Percent living in different language in 1985	Persons 5 to 17 years		Persons 18 years and over				
					Total	Percent who do not speak English well	Total	Percent who do not speak English well			
Benton County, Ky.	9 116	1	6 377	45.5	7.3	41	25.0	2 247	52.1	230	47.4
Benton County, Ky.	2 004	1	1 064	46.4	30.0	6	100.0	6	100.0	114	71.1
Benton County, Ky.	19 153	4	17 923	49.9	20.2	129	20.2	4 445	48.0	806	59.5
Benton County, Ky.	2 312	8	2 342	38.6	17.4	23	21.4	4 445	48.5	79	71.8
Benton County, Ky.	2 937	9	2 676	42.1	10.0	4	60.0	279	41.9	51	32.9
Benton County, Ky.	148	6	121	67.8	100.0	4	75.0	48	43.2	34	100.0
Benton County, Ky.	2 274	6	2 114	34.5	—	—	—	542	51.1	79	61.9
Benton County, Ky.	14 427	3	13 356	32.9	20.8	106	27.3	3 274	44.2	714	61.4
Benton County, Ky.	6 570	1	7 964	43.9	78.9	38	34.1	1 705	45.3	417	34.2
Benton County, Ky.	31 129	1	29 990	32.1	35.9	204	30.9	12 344	43.8	1 955	52.8
Benton County, Ky.	29 842	7	28 114	37.5	37.4	160	41.5	7 075	40.2	1 449	52.8
Benton County, Ky.	23 523	4	22 175	39.9	37.4	141	36.9	5 472	39.1	1 213	54.1
Benton County, Ky.	5 200	9	5 010	37.4	33.4	19	100.0	1 395	42.1	175	50.9
Benton County, Ky.	7 965	4.0	7 420	42.5	33.2	47	67.9	1 549	46.1	168	60.7
Benton County, Ky.	7 073	7.0	6 423	41.4	—	20	15.4	1 270	49.3	102	54.9
Benton County, Ky.	6 329	2.2	5 974	35.1	24.6	57	24.9	1 911	48.1	102	45.5
Benton County, Ky.	2 226	—	2 119	40.6	33.3	18	—	477	44.7	175	53.6
Benton County, Ky.	25 641	4	24 128	47.4	23.0	123	23.1	7 154	44.6	1 703	55.1
Benton County, Ky.	18 201	7	17 131	51.6	29.6	61	20.6	5 840	44.6	1 703	55.1
Benton County, Ky.	12 420	7	11 636	51.3	33.3	54	22.1	3 379	42.3	742	56.1
Benton County, Ky.	4 251	1	3 994	36.8	9.1	11	27.9	1 244	49.1	209	50.2
Benton County, Ky.	1 960	—	1 845	43.6	10.0	9	44.8	471	49.1	48	52.4
Benton County, Ky.	3 189	7.5	3 069	48.7	33.3	30	33.3	962	38.6	109	63.7
Benton County, Ky.	7 766	1	7 393	41.1	26.1	23	34.2	1 899	44.1	211	54.8
Benton County, Ky.	2 523	1	2 345	42.8	37.3	16	75.0	706	50.6	70	68.4
Benton County, Ky.	1 334	1	1 231	40.3	—	10	54.3	374	47.0	58	45.5
Benton County, Ky.	3 465	1.3	3 401	41.6	—	6	44.7	1 044	44.3	111	52.3
Benton County, Ky.	657	1.4	632	36.6	—	5	—	177	47.7	40	52.5
Benton County, Ky.	1 146	2	1 079	37.9	—	—	—	479	61.7	30	74.7
Benton County, Ky.	658	1	624	41.9	—	—	—	449	48.2	17	100.0
Benton County, Ky.	45	—	37	82.7	—	—	—	16	50.0	—	—
Benton County, Ky.	15 703	2	14 653	33.1	15.2	46	44.2	4 299	52.3	657	61.3
Benton County, Ky.	1 756	3	1 705	22.2	—	—	—	552	37.6	71	53.5
Benton County, Ky.	2 107	3	1 915	38.6	37.5	—	—	433	61.4	101	63.3
Benton County, Ky.	2 277	4	2 142	26.4	—	14	—	322	53.4	191	64.4
Benton County, Ky.	4 425	4	4 153	39.3	18.8	16	45	932	46.6	265	64.9
Benton County, Ky.	2 466	1.1	2 313	40.0	40.0	4	59.5	470	47.7	154	44.9
Benton County, Ky.	2 247	—	2 079	40.9	100.0	4	33.3	301	56.5	41	78.1
Benton County, Ky.	1 329	1	1 261	17.3	—	—	—	330	36.6	24	29.8
Benton County, Ky.	1 322	1	1 238	32.6	—	12	—	319	52.7	37	33.3
Benton County, Ky.	14 312	1	13 260	35.3	27.1	107	27.8	3 546	47.1	528	55.5
Benton County, Ky.	3 417	1	3 246	25.5	13.5	13	42.6	4 096	40.2	528	42.3
Benton County, Ky.	1 341	1	1 186	26.0	25.0	52	33.8	1 117	54.7	128	42.3
Benton County, Ky.	2 842	1	2 700	34.9	25.0	8	22.2	316	51.7	22	34.2
Benton County, Ky.	1 203	2	1 156	37.9	—	6	—	674	43.4	76	37.3
Benton County, Ky.	4 582	2	4 278	41.4	25.0	12	33.3	242	44.7	135	51.4
Benton County, Ky.	1 904	4	1 802	40.2	100.0	3	90.0	1 340	53.0	155	51.4
Benton County, Ky.	3 971	3	3 686	40.2	77.3	22	25.8	542	47.5	107	54.1
Benton County, Ky.	1 160	3	1 079	42.9	100.0	6	—	1 168	44.4	141	54.1
Benton County, Ky.	47 318	5	44 138	40.5	34.5	197	42.0	11 642	40.6	1 489	48.1
Benton County, Ky.	4 046	4	3 777	38.8	28.0	50	45.6	1 017	51.8	149	54.4
Benton County, Ky.	1 741	4	1 609	33.9	13.3	13	42.3	378	51.1	66	42.6
Benton County, Ky.	12 309	5	11 300	39.3	28.0	103	19.0	3 100	53.9	379	67.3
Benton County, Ky.	5 226	3	4 742	39.4	34.3	31	29.9	1 261	57.9	251	77.3
Benton County, Ky.	12	—	12	—	—	—	—	7	—	—	—
Benton County, Ky.	26 112	5	24 342	41.7	43.1	58	47.9	6 308	55.1	622	57.1
Benton County, Ky.	2 466	4	2 309	39.0	30.0	6	50.0	307	54.9	93	48.9
Benton County, Ky.	3 000	4	2 808	43.5	30.0	6	20.0	777	53.4	17	41.2
Benton County, Ky.	6 119	13	5 675	48.4	35.3	38	32.1	1 238	51.7	200	49.0
Benton County, Ky.	6 050	6	5 692	44.1	35.5	32	32.9	1 420	74.6	200	49.0

Table 1. Selected Social Characteristics: 1990—Con.

Persons based on sample and subject to sampling variability, see text. For definition of terms and meanings of symbols, see text.

State County County Subdivisions Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Persons with own children under 18 years	Persons with own children under 18 years	Persons with own children under 18 years	Total
	Total	Percent foreign born	Total	Percent living in different language in 1985	Total	Percent who do not speak English very well	Total	Percent who do not speak English very well				
Adams County	10 557	1.2	9 722	35.3	184	37.7	3 114	46.0	2 697	43.2	228	44.4
Adams County	4 810	0.7	4 487	37.9	34	37.7	1 447	47.1	1 237	47.2	148	41.3
Adams County	3 202	0.7	3 029	44.4	10	72.2	1 447	47.1	1 237	47.2	148	41.3
Adams County	1 344	0.4	1 273	31.9	16	100.0	376	43.8	314	44.7	36	35.7
Adams County	1 001	0.1	943	23.0	15	100.0	317	35.6	304	34.9	13	38.8
Adams County	6 455	0.7	6 032	38.8	28	25.0	3 177	46.3	2 824	43.2	353	48.8
Adams County	2 488	0.6	2 326	28.0	27	22.2	1 863	32.7	1 524	51.0	252	38.8
Adams County	4 429	0.7	4 114	32.1	6	28.6	1 276	33.3	999	51.3	210	38.1
Adams County	534	0.4	505	32.9	3	26.6	114	39.3	114	39.3	36	38.3
Adams County	14 414	0.3	13 716	34.4	93	38.1	4 158	48.9	3 270	49.8	796	45.8
Adams County	8 014	0.4	7 658	35.9	47	19.1	1 699	42.3	1 289	47.3	371	43.3
Adams County	2 816	0.7	2 656	41.9	16	54.3	764	46.2	535	44.3	213	38.2
Adams County	1 604	0.8	1 335	27.4	20	73.1	472	48.8	389	48.8	44	48.9
Adams County	1 809	0.7	1 773	32.1	20	48.0	249	44.6	201	44.0	39	44.2
Adams County	5 710	0.4	5 484	34.6	26	73.1	1 501	50.8	1 241	50.8	220	33.3
Adams County	1 748	0.4	1 647	35.6	11	81.8	464	52.0	331	57.0	99	33.3
Adams County	238 344	2.0	210 149	38.3	1 027	31.3	8 873	48.6	44 047	46.1	10 648	41.2
Adams County	225 344	2.0	210 149	38.3	1 027	31.3	8 873	48.6	44 047	46.1	10 648	41.2
Adams County	12 292	4.5	11 322	35.3	76	34.4	3 574	46.8	3 046	46.3	383	32.5
Adams County	3 394	0.7	3 214	40.7	19	100.0	1 681	47.0	1 401	46.1	43	37.2
Adams County	2 277	0.7	2 207	23.2	4	100.0	1 000	42.8	854	42.9	4	14.3
Adams County	4 549	0.4	4 149	34.2	47	48.4	1 984	46.1	1 548	46.3	263	34.4
Adams County	3 347	0.4	3 169	38.3	35	87.5	1 675	47.5	1 439	43.4	177	48.3
Adams County	43 594	1.1	40 493	32.2	128	34.4	12 423	54.8	10 278	55.4	1 720	33.3
Adams County	6 147	0.9	5 791	31.2	45	108.0	3 513	45.9	3 042	45.2	315	38.8
Adams County	708	0.3	673	34.3	2	100.0	344	48.1	292	48.7	20	38.0
Adams County	3 644	0.4	3 422	27.5	3	100.0	1 828	46.1	1 523	46.7	125	34.3
Adams County	8 808	0.3	8 495	37.5	39	19.7	4 089	54.7	3 503	54.3	145	48.3
Adams County	5 298	0.3	5 023	31.2	36	38.8	1 434	47.2	1 200	54.3	267	39.9
Adams County	13 272	0.3	12 313	35.0	19	73.7	3 899	51.8	3 229	52.9	177	38.8
Adams County	3 520	0.2	3 333	42.3	7	100.0	1 916	47.7	1 648	48.4	151	34.4
Adams County	2 034	0.6	1 885	28.9	49	35.0	589	61.6	497	61.2	64	70.2
Adams County	3 896	0.8	3 449	38.1	9	35.6	1 654	52.8	1 457	59.6	135	23.0
Adams County	3 272	0.3	3 074	24.1	22	25.7	1 255	54.7	1 012	47.9	17	44.7
Adams County	4 733	0.4	4 578	28.9	9	30.0	2 111	47.3	1 817	54.3	208	51.9
Adams County	43 281	0.2	41 001	44.5	273	27.8	12 185	48.8	9 423	46.7	2 070	60.0
Adams County	1 535	0.3	1 280	37.2	27	34.7	3 282	45.5	2 336	49.1	30	30.0
Adams County	41 303	0.9	39 712	47.2	247	34.0	11 441	48.7	8 967	43.6	2 044	68.5
Adams County	25 948	1.0	24 263	36.9	199	38.2	6 991	47.3	5 152	43.6	1 141	39.9
Adams County	1 143	0.1	1 099	31.9	6	100.0	340	47.1	220	47.5	14	57.1
Adams County	8 271	0.8	7 776	42.3	141	38.3	2 477	46.3	1 745	43.2	391	54.9
Adams County	3 172	0.3	2 996	44.9	105	33.3	1 394	47.4	1 032	49.2	239	32.7
Adams County	1 14	0.0	114	38.3	9	36.3	956	42.4	671	38.5	237	48.9
Adams County	3 524	0.3	3 322	38.9	36	32.8	1 079	44.8	730	49.4	245	54.3
Adams County	2 889	0.2	2 531	48.7	34	52.8	1 772	44.8	1 297	49.7	243	54.3
Adams County	5 292	0.1	4 981	39.8	29	27.6	1 536	49.2	1 263	50.7	187	39.4
Adams County	5 248	0.1	4 981	39.8	29	27.6	1 536	49.2	1 263	50.7	187	39.4
Adams County	3 408	0.3	3 237	34.4	3	33.3	78	37.7	63	44.4	9	33.3
Adams County	1 192	0.1	1 109	41.7	4	100.0	318	48.3	237	49.5	48	54.4
Adams County	11 579	0.3	10 981	42.6	115	27.8	3 442	45.4	2 960	44.4	342	54.4
Adams County	3 432	0.3	3 245	43.6	15	29.3	797	40.0	674	43.5	70	37.4
Adams County	3 421	0.3	3 234	42.4	28	36.0	1 948	47.7	1 674	43.5	236	39.3
Adams County	2 321	0.1	2 153	39.4	20	100.0	600	51.8	468	50.0	54	42.3

Table 1. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Female householders, no lone female persons			
	Total	Percent foreign born	Total	Percent living in different States in 1985	Persons 5 to 17 years		Persons 18 years and over		Total	Percent with own children under 18 years	Total	
					Total	Percent who do not speak "very well" English	Total	Percent who do not speak "very well" English				
North Carolina	3 141	4	2 918	32.6	20	70.0	59	13.8	866	49.0	41	61.8
Wake County	16 481	4.1	14 945	90.5	184	19.6	1 452	28.4	2 416	48.2	179	82.9
Wake County (DP)	15 487	4.3	13 829	94.4	172	20.9	1 425	28.8	2 190	53.3	119	92.3
Wake County (DP)	1 216	1.7	1 118	42.4	12	-	27	11.1	220	55.9	80	80.0
Wake County	36 374	2	34 025	31.7	112	38.4	317	38.6	8 217	56.9	1 758	47.7
Wake County	2 325	2	2 284	22.1	15	-	9	47.2	6 279	47.2	48	28.8
Wake County	6 859	2	6 843	25.1	15	-	13	61.5	1 529	42.8	48	34.3
Wake County	3 112	3	3 106	31.6	15	-	44	38.4	1 563	55.9	176	54.3
Wake County	17 005	3	16 977	48.5	5	-	21	47.9	1 499	47.3	32	48.6
Wake County	1 043	2	1 049	24.2	3	-	10	48.0	638	58.2	232	54.5
Wake County	2 785	3	2 776	33.4	68	34.8	174	48.0	3 886	47.9	61	44.3
Wake County	1 100	3	1 049	46.4	4	-	15	71.7	2 115	57.6	64	46.3
Wake County	1 543	3	1 489	33.8	11	-	39	18.2	482	51.9	211	52.1
Wake County	1 601	3	1 487	23.3	6	-	17	100.0	2 759	44.6	44	39.5
Wake County	3 417	2	3 410	24.4	11	-	22	61.5	401	63.1	47	47.4
Wake County	1 280	-	1 160	38.9	-	-	23	-	785	53.5	104	39.4
Wake County	1 280	-	1 160	33.3	-	-	3	-	777	51.1	189	50.3
Wake County	1 280	-	1 160	34.8	-	-	3	-	777	51.1	59	20.7
Wake County	16 248	5	15 199	46.2	15	-	180	26.1	3 822	47.4	636	47.8
Wake County	2 272	2	2 146	87.9	-	-	24	-	5 546	47.5	58	46.6
Wake County	1 875	1.1	1 746	32.8	-	-	3	-	54	51.4	3	64.0
Wake County	12 081	5	11 389	47.5	15	-	130	31.5	2 733	47.6	531	45.4
Wake County	6 497	4	6 488	50.3	7	-	49	12.2	1 272	48.3	416	42.8
Wake County	14 888	3	13 917	38.1	91	-	186	32.8	3 209	48.9	571	48.4
Wake County	2 379	2	2 089	45.3	16	-	54	11.8	4 518	58.9	67	41.8
Wake County	313	-	297	45.3	5	-	-	-	82	58.0	9	32.3
Wake County	1 972	8	1 493	39.9	6	-	21	28.6	480	43.1	34	44.1
Wake County	4 635	4	4 353	48.3	20	-	53	44.7	1 487	49.2	48	33.1
Wake County	2 346	4	2 183	35.8	7	-	24	20.8	1 132	44.8	215	49.8
Wake County	1 480	4	1 423	50.4	49	-	63	46.6	468	44.6	151	31.8
Wake County	1 356	4	1 354	40.4	8	-	11	45.5	1 084	42.3	174	31.0
Wake County	43 044	5	40 117	48.6	131	-	515	18.6	9 953	48.7	1 762	43.8
Wake County	7 432	1	6 894	39.4	38	-	59	4.8	1 787	54.4	156	42.7
Wake County	1 254	1	1 114	79.2	12	-	18	-	277	57.0	30	80.8
Wake County	4 274	5	3 966	48.7	15	-	44	15.9	1 449	51.5	74	47.3
Wake County	21 164	4	19 728	53.4	43	-	207	28.6	4 341	43.3	12	41.7
Wake County	10 174	4	9 625	57.2	48	-	113	28.6	4 328	42.4	12	44.2
Wake County	3 426	4	3 317	44.5	35	-	34	-	2 676	54.1	1 200	44.7
Wake County	12 823	3	11 843	58.8	90	-	107	44.7	3 000	44.9	540	52.7
Wake County	2 309	1.5	2 171	34.1	16	-	31	35.5	549	48.8	37	35.4
Wake County	4 787	4	4 581	38.3	3	-	3	100.0	1 113	48.7	30	51.4
Wake County	2 041	2	1 984	48.3	20	-	36	54.3	1 082	47.6	237	39.9
Wake County	1 122	2	1 084	38.3	8	-	11	34.3	30	43.3	172	41.8
Wake County	2 906	2	2 827	58.4	12	-	24	83.3	643	46.5	114	38.6
Wake County	2 822	3	2 812	47.5	12	-	16	42.9	1 195	51.9	66	38.0
Wake County	2 243	3	2 091	47.9	-	-	-	-	686	48.3	102	37.5
Wake County	5 544	2	5 222	52.8	3	-	55	48.0	1 324	39.3	229	58.5
Wake County	1 807	1	1 426	47.9	3	-	48	35.4	1 223	42.6	213	34.8
Wake County	1 599	1	1 589	31.0	3	-	7	71.4	249	39.6	15	46.6
Wake County	248	-	242	33.9	-	-	2	-	111	36.8	9	43.7

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Persons 18 years and over		Family households		Female householders, or female-headed families			
	Total	Percent foreign born	Total	Percent living in different language in 1985	Total	Percent who do not speak English very well	Total	Percent who speak English very well	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
Madison County	44,126	5	43,005	41.4	162	24.1	577	23.0	10,943	48.4	2,044	55.9	2,044	55.9
Duncan	6,647	1	6,242	41.6	11	15.9	44	15.9	1,548	50.0	289	31.8	289	31.8
Madisonville	3,127	1	2,720	48.1	2	31.7	22	48.1	669	46.2	146	34.4	146	34.4
Madisonville city	2,329	3	2,066	31.2	4	7.7	24	31.2	472	50.1	57	43.9	57	43.9
Madisonville town	29	422	27	39.6	0	23.9	390	42.2	705	46.7	24	58.3	24	58.3
Madisonville village	1,853	6	1,695	34.3	8	53.8	34	34.3	678	46.5	142	51.4	142	51.4
Madisonville village city	16,289	8	15,005	44.7	50	15.2	198	15.2	3,226	45.7	965	44.2	965	44.2
Madisonville village town	1,947	1	1,841	39.8	4	15.9	9	39.8	348	43.3	45	59.4	45	59.4
Madisonville village village	2,589	1	2,339	37.3	4	20.0	45	37.3	686	34.8	57	59.4	57	59.4
Madisonville village village city	4,227	3	3,894	28.0	10	40.0	66	28.0	1,089	36.6	123	54.5	123	54.5
Madisonville village village town	1,289	1	1,136	28.0	3	44.7	11	28.0	186	34.2	11	48.6	11	48.6
Madisonville village village village	1,410	1	1,288	32.8	1	66.7	4	32.8	145	38.9	29	53.8	29	53.8
St. Charles	818	296	276	35.5	1	100.0	4	35.5	42	32.2	11	54.5	11	54.5
Jackson County	11,955	1	11,121	36.2	43	42.9	78	36.2	2,882	50.0	340	57.8	340	57.8
Jacksonville	4,227	1	3,923	47.5	9	11.5	28	47.5	1,052	52.3	80	37.5	80	37.5
Jacksonville city	4,475	1	4,071	55.2	30	71.1	42	55.2	1,189	53.9	23	43.5	23	43.5
Jacksonville town	4,970	1	4,617	36.3	30	49.7	12	36.3	1,159	48.8	197	73.1	197	73.1
Jacksonville village	873	1	794	54.4	16	21.0	10	54.4	1,311	48.8	94	64.8	94	64.8
Jacksonville village city	2,758	1	2,581	56.1	16	100.0	10	56.1	671	48.3	83	64.8	83	64.8
Jacksonville village town	644	937	619	43.6	4	34.7	15	43.6	1,347	44.1	34	54.7	34	54.7
Jacksonville village village	4,770	1.4	4,458	48.8	97	33.3	30	48.8	1,200	51.9	96	44.9	96	44.9
Jacksonville village village city	1,139	1.5	1,052	43.2	4	34.7	15	43.2	1,347	44.1	34	54.7	34	54.7
Jacksonville village village town	3,632	2.3	3,406	57.1	34	31.9	15	57.1	976	44.8	65	48.6	65	48.6
Jacksonville village village village	1,468	3.3	1,405	44.3	6	27.4	24	44.3	572	45.2	46	38.3	46	38.3
Jacksonville village village village city	1,462	1.4	1,389	38.9	9	42.3	24	38.9	1,176	39.6	29	51.7	29	51.7
Jacksonville village village village town	1,191	1.8	1,117	28.1	11	18.8	36	28.1	412	39.6	6	33.7	6	33.7
Jacksonville village village village village	321	1.0	302	48.3	3	45.5	11	48.3	372	29.2	22	41.5	22	41.5
Jacksonville village village village village city	589	1.6	549	48.7	6	42.9	7	48.7	775	46.7	26	41.5	26	41.5
Jacksonville village village village village town	609	2.5	578	47.1	6	33.3	30	47.1	1,433	25.2	18	33.3	18	33.3
Jacksonville village village village village village	274	3.3	271	14.2	1	70.0	10	14.2	184	10.5	4	54.7	4	54.7
Breathitt County	319	1.2	276	55.4	6	33.3	9	55.4	98	47.8	2	100.0	2	100.0
Breathittville	480	2.3	441	44.9	2	100.0	20	44.9	193	49.2	15	24.3	15	24.3
Breathittville city	351	2.9	337	35.3	8	49.3	8	35.3	181	32.1	15	24.3	15	24.3
Breathittville town	7,081	3.9	6,618	49.9	32	18.2	86	49.9	1,445	39.7	202	11.3	202	11.3
Breathittville village	145	1.2	136	32.1	1	47	4	32.1	40	27.5	7	43.8	7	43.8
Breathittville village city	324	1.4	306	32.0	7	100.0	4	32.0	201	48.7	26	26	26	26
Breathittville village town	642	1.4	594	42.9	4	31.6	19	42.9	94	33.0	2	20.4	2	20.4
Breathittville village village	320	2.3	278	33.8	4	66.6	6	33.8	82	50.0	7	38.4	7	38.4
Breathittville village village city	391	3.0	376	31.9	3	24.1	27	31.9	454	42.9	159	20.4	159	20.4
Boyd County	323	1.0	299	74.0	3	31.0	9	74.0	81	42.0	15	26.7	15	26.7
Boydton	6,662	1.0	6,368	67.8	7	48.3	89	67.8	1,466	49.6	290	68.3	290	68.3
Boydton city	3,777	1.8	3,548	46.4	119	17.4	277	46.4	731	31.5	8	23.0	8	23.0
Boydton town	16,406	1.9	15,765	40.8	10	28.8	22	40.8	4,020	50.9	316	75.6	316	75.6
Boydton village	439	3.0	406	38.4	2	14.7	18	38.4	1,289	46.3	14	37.1	14	37.1
Boydton village city	654	1.8	617	39.3	2	100.0	13	39.3	1,131	32.6	6	64.7	6	64.7
Boydton village town	353	2.1	333	46.3	2	100.0	5	46.3	34	27.3	5	26.7	5	26.7
Boydton village village	196	3.3	181	33.7	1	100.0	4	33.7	99	42.9	7	38.4	7	38.4
Boydton village village city	300	2.3	284	41.3	1	100.0	4	41.3	166	25.3	159	20.4	159	20.4
Boydton village village town	223	1.7	209	22.4	3	31.0	9	22.4	81	42.0	15	26.7	15	26.7
Boydton village village village	6,662	1.0	6,368	67.8	7	48.3	89	67.8	1,466	49.6	290	68.3	290	68.3
Boydton village village village city	3,777	1.8	3,548	46.4	119	17.4	277	46.4	731	31.5	8	23.0	8	23.0
Boydton village village village town	16,406	1.9	15,765	40.8	10	28.8	22	40.8	4,020	50.9	316	75.6	316	75.6
Boydton village village village village	439	3.0	406	38.4	2	14.7	18	38.4	1,289	46.3	14	37.1	14	37.1
Boydton village village village village city	654	1.8	617	39.3	2	100.0	13	39.3	1,131	32.6	6	64.7	6	64.7
Boydton village village village village town	353	2.1	333	46.3	2	100.0	5	46.3	34	27.3	5	26.7	5	26.7
Boydton village village village village village	196	3.3	181	33.7	1	100.0	4	33.7	99	42.9	7	38.4	7	38.4
Boydton village village village village village city	300	2.3	284	41.3	1	100.0	4	41.3	166	25.3	159	20.4	159	20.4
Boydton village village village village village town	223	1.7	209	22.4	3	31.0	9	22.4	81	42.0	15	26.7	15	26.7
Boydton village village village village village village	6,662	1.0	6,368	67.8	7	48.3	89	67.8	1,466	49.6	290	68.3	290	68.3
Boydton village village village village village village city	3,777	1.8	3,548	46.4	119	17.4	277	46.4	731	31.5	8	23.0	8	23.0
Boydton village village village village village village town	16,406	1.9	15,765	40.8	10	28.8	22	40.8	4,020	50.9	316	75.6	316	75.6
Boydton village village village village village village village	439	3.0	406	38.4	2	14.7	18	38.4	1,289	46.3	14	37.1	14	37.1
Boydton village village village village village village village city	654	1.8	617	39.3	2	100.0	13	39.3	1,131	32.6	6	64.7	6	64.7
Boydton village village village village village village village town	353	2.1	333	46.3	2	100.0	5	46.3	34	27.3	5	26.7	5	26.7
Boydton village village village village village village village village	196	3.3	181	33.7	1	100.0	4	33.7	99	42.9	7	38.4	7	38.4
Boydton village village village village village village village village city	300	2.3	284	41.3	1	100.0	4	41.3	166	25.3	159	20.4	159	20.4
Boydton village village village village village village village village town	223	1.7	209	22.4	3	31.0	9	22.4	81	42.0	15	26.7	15	26.7
Boydton village village village village village village village village village	6,662	1.0	6,368	67.8	7	48.3	89	67.8	1,466	49.6	290	68.3	290	68.3
Boydton village village village village village village village village village city	3,777	1.8	3,548	46.4	119	17.4	277	46.4	731	31.5	8	23.0	8	23.0
Boydton village village village village village village village village village town	16,406	1.9	15,765	40.8	10	28.8	22	40.8	4,020	50.9	316	75.6	316	75.6
Boydton village village village village village village village village village village	439	3.0	406	38.4	2	14.7	18	38.4	1,289	46.3	14	37.1	14	37.1
Boydton village village village village village village village village village village city	654	1.8	617	39.3	2	100.0	13	39.3	1,131	32.6	6	64.7	6	64.7
Boydton village village village village village village village village village village town	353	2.1	333	46.3	2	100.0	5	46.3	34	27.3	5	26.7	5	26.7
Boydton village village village village village village village village village village village	196	3.3	181	33.7	1	100.0	4	33.7	99	42.9	7	38.4	7	38.4
Boydton village village village village village village village village village village village city	300	2.3	284	41.3	1	100.0	4	41.3	166	25.3	159	20.4	159	20.4
Boydton village village village village village village village village village village village town	223	1.7	209	22.4	3	31.0	9	22.4	81	42.0	15	26.7	15	26.7
Boydton village village village village village village village village village village village village	6,662	1.0	6,368	67.8	7	48.3	89	67.8	1,466	49.6	290	68.3	290	68.3
Boydton village village village village village village village village village village village village city	3,777	1.8	3,548	46.4	119	17.4	277	46.4	731	31.5	8	23.0	8	23.0
Boydton village village village village village village village village village village village village town	16,406	1.9	15,765	40.8										

Table Selected Social Characteristics: 1990 - Con.

Persons in sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Female households, on last head count				
	Total	Percent foreign born	Total	Percent living in different language in 1985	Persons 5 to 17 years		Total	Percent with own children under 18 years	Married-couple family		Total	Percent with own children under 18 years	
					Total	Percent who do not speak English well			Total	Percent who do not speak English well			
Jefferson County - Con.													
Indian Hill city	1 074	3.1	1 041	38.4	36	5.6	347	34.9	318	37.4	21	23.8	
Indian Hill census tract	1 005	2.8	980	29.4	29	21.4	304	52.0	291	49.8	13	100.0	
Jeffersonville city	23 235	1.4	21 475	29.6	587	25.7	6 544	51.1	5 791	51.0	600	58.4	
Kennett city	23 485	1.2	21 346	36.1	6	33.3	1 114	49.1	1 022	50.0	19	59.0	
Kingsley city	885	4.5	865	31.7	12	39.6	122	28.7	98	34.7	33	5.3	
Leitchfield city	116	9.9	112	17.0	4	39.6	259	57.5	216	25.0	33	68.6	
Linton city	249 157	1.5	239 112	42.7	1 785	45.3	47 653	23.8	40 400	25.0	19 441	54.4	
Lynchville city	8 057	2.0	7 894	67.5	1 500	12.8	2 098	44.9	1 626	38.1	342	51.5	
Lynchville census tract	1 017	1.1	7 985	87.2	4	42.1	316	25.1	247	24.0	53	34.0	
Morehead city	174	2.3	164	18.9	2	100.0	56	46.4	52	50.0	4	-	
Morehead census tract	165	75.1	160	23.8	3	-	39	46.4	37	45.6	4	-	
Morehead Park city	157	2.5	141	44.7	4	-	34	38.0	31	47.1	3	-	
Morehead Park census tract	789	3.6	774	33.8	15	35.1	237	30.2	210	51.9	22	100.0	
Morehead Park census tract	202	3.0	196	41.0	2	41.5	60	11.0	40	13.3	10	45.5	
Morehead Park census tract	5 017	1.4	4 943	54.3	35	22.9	1 508	57.6	1 215	47.7	257	67.4	
Morehead Park census tract	1 675	8.8	1 641	87.7	14	48.0	453	27.4	369	55.6	49	71.4	
Morehead Park census tract	1 156	2.8	1 132	38.2	8	100.0	51	43.5	49	28.6	2	-	
Morehead Park census tract	467	1.9	456	28.9	1	22.2	125	27.5	103	47.6	15	48.8	
Morehead Park census tract	593	5.4	547	92.0	8	14.3	159	46.3	132	47.4	2	100.0	
Morehead Park census tract	21 428	2	21 409	41.2	107	45.4	5 818	55.8	3 475	47.2	2 001	70.9	
Morehead Park census tract	465	71.8	427	33.7	2	-	141	45.4	124	44.0	15	33.3	
Morehead Park census tract	352	4.5	345	48.5	4	24.0	248	41.5	231	39.0	15	73.3	
Morehead Park census tract	18 962	8	18 315	43.8	21	36.1	5 498	41.4	4 739	43.4	1 017	50.7	
Morehead Park census tract	329	2.1	315	42.5	7	34.7	425	48.0	375	47.0	2	37.0	
Morehead Park census tract	887	9.9	871	87.0	11	24.4	161	50.5	141	41.5	2	37.9	
Morehead Park census tract	819	2.9	799	28.9	2	30.0	229	58.5	185	58.5	3	46.8	
Morehead Park census tract	1 819	2.9	1 745	33.3	10	33.7	279	47.3	215	47.3	1 195	46.8	
Morehead Park census tract	25 161	-	23 149	38.3	121	35.9	7 380	24.0	5 970	16.7	1 2	58.3	
Morehead Park census tract	376	1.3	371	87.7	4	25.8	85	29.4	59	12.8	18	58.8	
Morehead Park census tract	2 789	3.9	2 649	64.5	43	9.3	654	44.9	793	45.0	20	68.0	
Morehead Park census tract	444	73.8	414	37.2	114	7.8	132	43.2	124	44.4	6	38.3	
Morehead Park census tract	513	7.8	489	39.6	16	5.1	156	40.7	153	43.8	3	64.7	
Morehead Park census tract	264	8.0	253	31.9	8	23.3	92	26.1	92	26.1	3	58.3	
Morehead Park census tract	572	1.3	544	71.2	8	31.3	172	35.4	178	33.2	12	39.4	
Morehead Park census tract	1 143	1.3	1 130	43.7	16	50.7	304	49.7	272	47.4	53	48.4	
Morehead Park census tract	10 326	2.1	9 588	26.6	44	18.2	3 048	49.7	2 144	47.4	754	48.4	
Morehead Park census tract	15 776	1.5	14 277	32.1	58	32.8	3 966	40.3	3 161	39.3	671	47.4	
Morehead Park census tract	754	1.5	730	80.5	10	10.6	514	44.3	486	46.5	24	50.9	
Morehead Park census tract	670	2.2	655	44.1	6	30.0	705	38.0	180	38.3	23	39.1	
Morehead Park census tract	212	8	203	35.5	123	34.2	4 295	38.3	3 438	35.7	988	50.1	
Morehead Park census tract	450	7	418	32.1	3	-	142	29.4	115	29.6	7	34.8	
Morehead Park census tract	339	-	324	34.4	2	28.6	109	40.4	96	37.8	25	42.9	
Morehead Park census tract	286	1.8	279	38.0	12	15.4	129	39.3	129	35.6	5	48.8	
Morehead Park census tract	370	1.8	354	29.5	2	100.0	89	47.7	75	46.7	14	28.8	
Morehead Park census tract	387	3.4	381	27.7	8	-	169	39.8	144	43.4	13	38.8	
Morehead Park census tract	76	-	76	67.1	3	-	118	39.1	99	15.4	10	78.8	
Morehead Park census tract	130	1.5	121	21.5	3	-	41	29.3	39	38.8	4	-	
Morehead Park census tract	153	1.5	139	27.3	4	-	62	32.1	49	34.7	1	88.1	
Morehead Park census tract	542	2.1	517	51.7	102	41.7	6 645	44.6	5 443	44.8	108	68.9	
Morehead Park census tract	1 887	1.7	1 808	26.2	4	28.4	1 178	38.2	1 023	42.7	174	17.4	
Morehead Park census tract	787	4.2	752	44.1	11	37.5	447	44.7	387	42.8	133	48.5	
Morehead Park census tract	448	1.3	415	35.9	7	37.5	239	58.9	187	40.7	21	37.8	
Morehead Park census tract	582	7.7	569	26.6	6	15.4	99	24.7	78	28.1	7	28.9	
Morehead Park census tract	479	4.0	441	42.4	4	21.4	185	54.8	153	34.8	43	38.9	
Morehead Park census tract	2 452	3.4	2 375	37.1	25	16.5	746	34.7	643	34.8	18	25.6	
Morehead Park census tract	1 712	1.7	1 643	37.3	8	25.0	339	39.7	298	37.8	48	49.8	
Morehead Park census tract	1 071	1.7	1 060	35.5	11	7	322	43.7	275	41.7	48	62.8	
Morehead Park census tract	1 973	2.8	1 887	50.5	17	37.4	253	72.7	194	74.7	43	62.8	

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Percent 5 years and over		Percent 10 years and over		Percent who speak a language other than English at home		Family households		Female householders, no live-in partner present	
	Total	Percent foreign born	Total	Percent living in different language in 1985	Total	Percent who do not speak English well	Total	Percent who do not speak English well	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
Anderson County	30 298	1.2	28 239	52.7	143	39.2	6 507	52.6	7 237	51.5	1 015	61.9
Anderson city	3 226	2.9	3 010	46.2	163	29.4	29 379	49.0	7 081	44.9	76	75.7
Anderson city (pt.)	21 154	5	19 479	51.1	318	49.4	6 104	54.2	5 045	53.5	949	59.1
Anderson city (pt.)	13 600	3.0	12 900	62.3	151	66.2	3 900	56.5	3 097	54.3	492	40.6
Anderson city (pt.)	6 126	3.0	5 759	61.7	162	29.0	1 438	48.3	1 204	47.0	74	73.8
Anderson city (pt.)	4 215	3.9	3 940	70.8	156	30.1	884	52.9	792	51.1	44	85.9
Anderson County	23 248	3	21 026	36.9	345	49.3	6 434	52.1	5 477	51.7	875	55.6
Anderson city	2 511	2	2 406	67.0	74	23	7 748	36.9	6 480	31.7	40	58.3
Anderson city	2 740	2	2 603	63.4	25	23	815	34.5	683	31.7	102	46.8
Anderson city	3 044	3	2 849	26.1	30	36.7	1 192	33.3	1 001	31.2	87	54.3
Anderson city	14 893	5	13 946	59.7	244	44.2	4 159	44.7	3 321	51.2	646	57.9
Anderson city	4 354	9	4 103	46.4	46	49.2	1 177	44.7	925	42.1	184	63.6
Anderson city	1 102	1	1 070	37.0	8	—	328	36.4	287	35.4	37	57.9
Anderson County	142 031	9	130 511	43.2	2 462	28.8	37 779	51.7	29 882	51.3	6 318	57.1
Anderson city	112 581	9	100 015	46.2	2 107	29.4	29 379	30.3	22 777	49.8	5 398	55.4
Anderson city	1 137	3	1 134	33.6	13	23.1	29 304	56.9	22 744	56.6	4 449	51.0
Anderson city	40 540	4	37 542	48.3	813	26.9	9 969	32.9	6 443	47.9	2 807	59.8
Anderson city	2 179	1.3	2 057	24.9	30	13.3	509	46.5	453	44.6	10	80.0
Anderson city	2 490	1.4	2 321	37.7	39	39	377	48.6	341	44.2	107	47.7
Anderson city	8 143	1.5	7 671	37.0	140	27.1	2 228	61.3	2 044	62.1	80	26.3
Anderson city	4 481	5	4 074	28.8	40	40	1 213	55.0	1 042	51.1	129	52.7
Anderson city	13 524	1.3	12 319	43.1	264	29.5	3 827	49.7	3 121	56.2	221	43.8
Anderson city	13	1	12	13.4	—	—	6	—	3	—	605	96.7
Anderson city	7 438	1.4	6 979	48.9	140	28.4	1 905	43.2	1 583	49.4	227	58.6
Anderson County	6 574	1.0	6 126	40.5	98	27.4	1 823	42.3	1 485	44.9	172	24.9
Anderson city	3 354	2.5	3 045	52.7	3	100.0	34	44.4	31	51.6	5	—
Anderson city	4 724	1.0	4 351	55.9	76	34.2	849	44.3	672	47.0	131	41.8
Anderson city	3 321	1.2	3 082	39.3	60	25.0	1 277	49.1	971	51.4	244	34.4
Anderson city	3 500	1.5	3 491	73.2	30	31.0	1 004	48.4	1 339	48.8	145	34.6
Anderson city	2 729	7	2 620	57.5	211	28.9	1 056	59.1	1 373	57.7	119	40.3
Anderson city	2 704	5	2 691	70.8	73	32.7	6 725	49.8	5 633	57.7	798	49.2
Anderson city	2 246	1.7	2 123	36.7	46	37.0	6 725	49.8	5 633	49.2	41	85.2
Anderson city	2 433	3	2 185	46.6	50	38.0	652	62.9	572	59.2	114	32.5
Anderson city	76	4	74	18.9	14	50.0	486	21.6	571	33.3	101	79.2
Anderson city	10 446	4	9 523	44.9	101	14.9	3 008	57.4	2 480	54.7	430	47.4
Anderson city	396	8	372	26.3	10	100.0	1 107	30.3	74	74	25	32.8
Anderson city	262	30	242	39.3	2	2	77	42.2	6	100.0	3	—
Anderson city	30	30	30	36.8	—	—	6	—	6	—	—	—
Anderson city	7 154	1.0	6 699	85.5	19	73.7	1 978	32.8	1 785	36.5	122	28.8
Anderson County	17 906	1	16 727	31.0	139	40.3	4 970	51.3	3 993	55.8	728	54.7
Anderson city	2 811	2	2 605	29.1	10	100.0	410	34.3	311	41.9	28	41.1
Anderson city	3 155	3	2 979	67.0	52	49.2	1 308	58.9	1 071	52.0	146	52.9
Anderson city	4 944	4	4 576	86.4	37	44.4	1 492	54.2	1 194	48	59.7	
Anderson city	835	7	778	20.0	3	27.5	232	44.3	190	48	44	
Anderson city	2 726	1	2 562	36.2	—	—	45	—	40	—	5	—
Anderson County	29 474	2	27 547	38.4	357	22.4	8 242	52.3	6 313	52.4	1 499	34.9
Anderson city	15 181	3	13 746	49.3	146	21.2	3 640	38.8	2 895	51.6	823	38.2
Anderson city	3 445	9	3 182	18.9	8	63.3	890	43.5	581	39.9	263	49.1
Anderson city	9 174	1	8 521	18.2	—	—	257	—	210	—	30	—
Anderson city	1 541	1	1 428	46.7	42	42	761	30.1	483	49.6	283	34.4
Anderson city	403	1	353	34.6	24	7	384	47.4	347	53.4	118	42.4
Anderson city	2 003	1	1 885	31.3	12	23	199	42.2	151	43.7	42	37.3
Anderson city	3 199	4	2 924	57.3	12	39	673	33.8	476	39.0	92	64.3
Anderson city	2 542	1	2 342	21.2	24	—	815	34.3	740	34.3	76	52.4
Anderson city	1 223	4	1 163	28.8	—	—	28	—	23	—	—	—
Anderson city	—	—	—	100.0	—	—	—	—	—	—	—	—

Table 1. Selected Social Characteristics: 1990 - Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivisions Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Persons with own children under 18 years	Persons with own children under 18 years	Persons with own children under 18 years	Persons with own children under 18 years
	Total	Percent foreign born	Total	Percent living in different language in 1985	Total	Percent who do not speak English well	Total	Percent who speak English well				
Lexington	11 677	1.1	10 975	39.0	72	54.9	3 428	43.8	2 188	43.2	498	28.9
Adams County	1 796	1.1	1 617	40.8	16	100.0	1 541	41.4	1 380	44.2	78	44.6
Adair County	6 573	1.1	6 309	39.9	33	100.0	5 944	41.4	5 229	44.2	228	38.4
Allen County	2 756	1.1	2 647	40.7	15	100.0	2 418	41.8	2 177	42.9	49	38.8
Anderson County	3 315	1.1	3 205	35.8	23	100.0	2 918	41.9	2 642	42.9	51	27.3
Anderson City (pt.)	4 488	1.3	4 329	48.9	213	31.5	12 688	51.3	10 396	51.5	1 619	54.9
Boone County	2 196	1.1	2 019	41.5	25	32.0	1 848	49.8	1 645	50.1	50	36.6
Boyd County	2 196	1.1	2 019	108.0	16	16.0	1 848	108.0	1 645	108.0	50	36.6
Boyd City (pt.)	2 591	1.1	2 481	41.8	26	54.3	2 273	51.7	2 016	52.9	90	55.4
Boyer County	5 370	1.1	5 049	34.1	62	24.2	4 616	38.3	4 095	38.1	1 608	38.8
Boyer City	2 121	1.1	2 011	34.4	17	29.4	1 744	34.0	1 495	36.1	1 175	48.7
Boyer City (pt.)	6 027	1.1	5 838	43.9	61	49.2	5 172	44.6	4 599	44.4	1 680	47.4
Boyer County (pt.)	15 535	1.1	14 927	48.1	133	24.1	13 199	48.3	11 722	47.0	1 477	34.9
Boyer City (pt.)	5 728	1.1	5 539	48.5	69	35.8	4 834	48.3	4 253	47.0	1 581	33.9
Boyer City (pt.)	7 429	1.1	7 240	41.4	89	100.0	6 354	55.3	5 557	52.7	2 123	43.5
Boyer City (pt.)	1 129	1.0	1 048	39.7	3	100.0	973	44.4	875	45.5	58	34.5
Boyer County (pt.)	13 976	1.1	13 392	36.3	34	29.4	11 773	51.3	10 285	52.3	487	48.7
Boyer County (pt.)	2 541	1.1	2 394	79.3	48	29.2	2 146	55.4	1 875	53.2	271	48.7
Boyer County (pt.)	1 700	1.1	1 584	44.2	20	55.0	1 402	55.9	1 233	58.0	89	42.3
Boyer County (pt.)	2 448	1.1	2 320	36.9	20	70.0	2 072	48.6	1 847	47.8	19	33.4
Boyer County (pt.)	5 722	1.1	5 533	25.3	39	33.3	4 919	50.6	4 371	53.1	549	35.4
Boyer County (pt.)	1 970	1.1	1 881	43.9	7	47.9	1 619	50.6	1 379	53.1	222	43.7
Boyer County (pt.)	1 627	1.1	1 538	30.1	4	47.9	1 379	47.1	1 218	47.9	119	43.5
Boyer County (pt.)	1 422	1.1	1 333	38.1	7	100.0	1 168	48.7	1 022	47.4	131	51.2
Boyer County (pt.)	3 944	1.1	3 797	39.4	44	36.7	3 324	50.0	2 922	50.1	402	52.2
Boyer County (pt.)	1 131	1.1	1 042	49.3	5	66.0	917	47.0	805	51.1	112	38.9
Boyer County (pt.)	1 795	1.1	1 687	31.6	9	5.0	1 496	52.5	1 307	51.5	189	34.9
Boyer County (pt.)	1 641	1.1	1 557	42.8	5	100.0	1 397	41.4	1 236	49.5	161	41.4
Boyer County (pt.)	13 442	1.1	12 860	38.1	41	34.4	11 164	54.4	9 769	53.1	1 395	41.4
Boyer County (pt.)	3 488	1.1	3 340	39.9	24	42.5	2 941	54.4	2 589	53.1	359	41.4
Boyer County (pt.)	6 425	1.1	6 199	32.2	43	7.0	5 382	54.4	4 709	51.7	673	42.8
Boyer County (pt.)	3 373	1.1	3 257	35.8	17	100.0	2 852	44.9	2 509	47.2	343	41.4
Boyer County (pt.)	3 543	1.1	3 427	34.4	17	100.0	3 016	41.7	2 665	43.5	351	34.3
Boyer County (pt.)	27 000	1.1	25 318	31.9	92	15.2	21 741	54.0	19 056	55.5	2 685	47.0
Boyer County (pt.)	4 349	1.1	4 198	29.5	91	45.6	3 626	54.6	3 158	54.1	468	58.2
Boyer County (pt.)	1 497	1.1	1 388	38.1	7	72.5	1 218	54.6	1 079	53.4	149	38.9
Boyer County (pt.)	1 677	1.1	1 578	34.4	6	100.0	1 402	41.2	1 237	48.9	165	44.4
Boyer County (pt.)	9 908	1.1	9 718	31.3	22	27.3	8 338	52.4	7 345	53.6	993	47.3
Boyer County (pt.)	7 750	1.1	7 514	34.4	16	100.0	6 542	43.9	5 743	41.4	799	51.6
Boyer County (pt.)	2 751	1.1	2 644	32.2	4	40.0	2 278	54.2	2 044	50.6	234	49.1
Boyer County (pt.)	1 110	1.1	1 046	33.4	10	100.0	928	51.5	816	57.5	112	34.1
Boyer County (pt.)	7 446	1.1	7 016	32.3	20	100.0	6 146	53.8	5 376	57.6	770	34.1
Boyer County (pt.)	1 636	1.1	1 557	34.2	18	100.0	1 350	48.2	1 183	48.2	167	48.3
Boyer County (pt.)	13 000	1.1	12 216	34.0	37	47.6	10 536	51.2	9 151	51.8	1 385	47.7
Boyer County (pt.)	4 125	1.1	3 984	38.3	9	19.9	3 428	53.7	3 009	53.4	419	46.5
Boyer County (pt.)	1 828	1.1	1 742	21.8	17	29.4	1 509	53.7	1 312	54.2	197	22.4
Boyer County (pt.)	3 118	1.1	2 964	29.9	9	41.5	2 591	44.4	2 247	44.4	344	44.4
Boyer County (pt.)	3 47	1.1	3 299	39.9	9	100.0	2 852	52.9	2 479	52.9	379	47.9
Boyer County (pt.)	3 942	1.1	3 756	45.7	12	13.8	3 244	52.0	2 855	51.5	389	47.9
Boyer County (pt.)	1 713	1.1	1 613	31.7	5	19.8	1 428	52.1	1 256	51.7	177	53.8
Boyer County (pt.)	28 045	1.1	26 678	34.9	56	21.4	23 046	48.4	20 146	48.5	2 900	44.3
Boyer County (pt.)	3 448	1.1	3 211	37.4	3	34.6	2 766	47.1	2 399	48.8	367	44.3
Boyer County (pt.)	3 898	1.1	3 683	48.1	7	42.9	3 156	53.1	2 779	53.4	379	54.4
Boyer County (pt.)	3 179	1.1	3 023	39.0	33	33.0	2 613	51.8	2 244	51.8	369	34.5
Boyer County (pt.)	7 370	1.1	7 023	41.2	4	100.0	6 065	43.7	5 240	48.0	825	57.1
Boyer County (pt.)	7 351	1.1	7 042	37.4	4	23.8	6 065	47.4	5 240	48.2	825	47.9
Boyer County (pt.)	3 271	1.1	3 043	46.0	10	23.7	2 543	44.7	2 199	44.7	344	48.3
Boyer County (pt.)	5 271	1.1	4 969	29.8	10	80.0	4 343	44.7	3 799	44.7	544	48.3
Boyer County (pt.)	1 616	1.1	1 537	41.7	10	100.0	1 348	50.0	1 198	50.0	150	100.0

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Persons who speak English very well		Persons who speak English very well		Family households		Family households, no family members, no family present	
	Total	Percent foreign born	Total	Percent living in different language in 1985	Total	Percent who do not speak English very well	Total	Percent who do not speak English very well	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
Union County	9 042	78.5	8 547	34.7	106	30.0	20	9	2 775	45.1	2 405	45.4	249	48.0
Salmon County	3 176	82.0	3 022	36.6	40	44.7	1	1	951	41.1	886	42.3	49	28.0
Carroll County	1 124	87.4	1 116	41.5	5	10.0	0	0	388	51.3	366	52.3	22	28.0
Salmon City	744	82.2	716	46.3	6	15.2	1	1	267	36.7	251	39.5	16	22.0
Southwest Union	5 868	73.8	5 535	38.9	66	42.1	11	11	1 624	42.1	1 519	47.3	105	47.4
General Union City	3 349	77.9	3 231	32.0	2	11.4	1	1	1 109	27.5	97	77.8	11	20.0
Southwest Union City	1 441	71.4	1 332	41.7	41	44.7	1	1	532	55.6	457	54.0	75	62.9
Southwest Union City	1 419	73.0	1 409	44.7	1	11.4	1	1	102	33.3	63	36.1	39	33.3
Union County	24 416	80.6	23 830	38.4	239	19.3	45	45	6 975	47.5	5 825	44.8	715	54.7
Madison County	3 022	64.6	2 827	35.5	35	42.4	11	11	826	42.8	714	41.6	91	48.4
Madison City	3 006	64.6	2 827	35.5	35	42.4	11	11	826	42.8	714	41.6	91	48.4
Madison County	3 991	83.9	3 836	34.3	57	10.0	2	2	1 098	49.3	977	50.4	121	44.5
Madison City	1 273	80.6	1 197	43.9	20	10.0	2	2	339	36.3	280	38.9	59	37.0
Union County	3 494	87.7	3 284	32.2	15	40.0	2	2	1 022	46.1	884	48.0	55	38.2
Union City	3 494	87.7	3 284	32.2	15	40.0	2	2	1 022	46.1	884	48.0	55	38.2
Union County	13 959	85.9	13 076	31.0	154	44.7	30	30	3 967	35.1	3 318	35.8	29	24.1
Union City	7 454	83.3	6 985	41.0	92	47.8	22	22	2 025	46.1	1 516	40.9	459	49.1
Union County	6 404	74.1	6 345	42.7	10	30.0	10	10	1 649	36.9	1 472	34.9	135	55.6
Madison County	5 430	76.3	5 213	42.6	108	21.3	10	10	1 469	40.6	1 286	39.1	164	52.9
Madison City	1 822	74.0	1 827	49.8	45	37.5	6	6	344	34.9	277	33.9	54	55.6
Madison County	1 194	64.2	1 152	43.3	3	33.3	3	3	175	38.4	107	41.1	14	12.5
Madison City	1 194	64.2	1 152	43.3	3	33.3	3	3	175	38.4	107	41.1	14	12.5
Madison County	62 879	70.3	59 008	44.4	444	31.8	44	44	18 087	46.7	14 638	44.0	2 018	66.9
Madison County	4 689	72.8	4 397	39.8	32	7.6	2	2	1 428	46.4	1 232	47.1	159	56.9
Madison County	4 397	74.8	4 075	39.0	28	6.0	2	2	1 275	37.5	1 052	50.3	83	48.1
Madison County	4 397	74.8	4 075	39.0	28	6.0	2	2	1 275	37.5	1 052	50.3	83	48.1
Madison County	2 148	74.5	2 027	45.9	29	20.0	2	2	649	44.2	567	44.6	30	53.3
Madison County	3 149	81.0	2 979	47.4	37	28.6	3	3	1 475	46.5	1 267	43.9	111	61.5
Madison County	3 702	70.2	3 474	49.4	26	10.0	3	3	1 157	38.7	987	33.6	143	58.8
Madison County	3 702	70.2	3 474	49.4	26	10.0	3	3	1 157	38.7	987	33.6	143	58.8
Madison County	26 982	68.7	25 532	45.7	180	20.0	36	36	7 302	44.6	5 922	39.5	1 797	79.8
Madison County	4 054	68.9	3 833	45.7	65	40.0	15	15	1 314	41.2	1 155	38.9	138	58.7
Madison County	4 954	75.3	4 613	42.2	76	41.2	26	26	1 435	49.0	1 200	47.1	151	64.9
Madison County	15 403	70.8	14 433	35.0	63	22.2	6	6	4 281	53.9	3 309	53.7	428	57.0
Madison County	1 020	82.3	976	26.7	6	100.0	6	6	258	61.1	216	61.1	27	63.0
Madison County	2 257	74.6	2 090	39.3	21	100.0	21	21	638	49.5	546	50.4	100	54.0
Madison County	5 365	43.5	5 090	39.3	21	100.0	21	21	1 425	30.7	1 245	48.1	271	60.9
Madison County	1 490	60.3	1 397	43.9	29	38.3	29	29	340	48.8	285	51.6	55	34.5
Madison County	7 021	73.4	6 517	42.9	72	37.6	15	15	1 940	57.1	1 639	58.2	420	54.9
Madison County	1 570	74.5	1 515	37.9	15	33.3	15	15	415	66.3	344	56.1	53	73.5
Madison County	1 172	73.9	1 088	43.6	16	30.0	16	16	351	50.1	293	50.7	119	37.0
Madison County	9 638	89.2	9 040	35.8	73	31.5	16	16	2 805	46.5	2 412	47.7	318	57.9
Madison County	3 422	88.6	3 304	38.1	54	21.8	4	4	1 011	44.4	884	43.7	104	49.0
Madison County	1 847	86.5	1 837	43.8	10	44.4	4	4	564	44.4	476	47.6	49	45.0
Madison County	1 126	90.2	1 071	36.1	12	30.3	4	4	192	27.6	166	27.6	22	56.1
Madison County	448	88.0	410	32.5	12	33.3	4	4	271	30.9	234	30.9	22	72.7
Madison County	2 907	88.1	2 722	37.5	11	49.0	9	9	852	46.4	744	46.4	67	71.3
Madison County	1 534	88.1	1 426	41.0	19	32.3	19	19	352	49.2	302	41.9	70	73.7
Madison County	1 973	90.4	1 875	38.4	10	32.3	10	10	603	44.1	513	42.1	70	53.7
Madison County	1 544	89.9	1 530	49.8	10	100.0	10	10	145	48.5	121	42.1	20	68.0
Madison County	54 976	77.8	51 149	34.4	301	31.1	30	30	14 091	48.4	12 279	47.0	1 798	58.4
Madison County	16 316	77.2	15 034	37.1	81	12.3	8	8	5 323	48.7	4 556	47.3	517	57.8
Madison County	9 932	67.0	9 284	31.1	37	48.1	11	11	2 384	48.2	1 955	44.1	275	78.5
Madison County	1 389	88.4	1 305	41.5	13	38.8	13	13	335	45.7	286	45.7	26	76.5
Madison County	4 469	86.5	4 391	41.5	40	38.8	40	40	1 430	47.3	1 264	46.3	169	69.7
Madison County	4 966	81.9	4 659	45.9	29	70.0	29	29	1 476	54.7	1 229	55.4	191	46.5
Madison County	2 280	82.1	2 148	28.9	25	48.1	25	25	674	32.8	574	41.5	26	41.5
Madison County	27 304	74.7	25 732	32.8	232	35.7	23	23	6 204	45.8	5 092	42.6	1 107	58.2
Madison County	21 155	73.8	20 134	47.6	64	11.5	61	61	4 262	44.4	3 682	48.0	583	68.5
Madison County	13 077	89.7	12 132	31.0	139	40.0	35	35	3 078	56.7	2 644	57.3	428	53.0
Madison County	1 461	89.7	1 401	24.7	20	100.0	20	20	408	61.1	344	61.1	39	58.4
Madison County	2 262	92.6	2 088	34.5	8	100.0	8	8	697	69.0	575	69.0	53	71.7

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Female householders, no husband present
	Total	Percent foreign born	Total	Percent living in different house in 1985	Persons 5 to 17 years	Persons 18 years and over	Total	Percent with own children under 18 years	
Adair County—Con.									
Adair County	27 542	3	25 013	45.6	142	43.7	7 971	47.1	1 157
Adairville city (pt.)	168		140	30.0	2	100.0	54	42.6	44
Adairville city (pt.)	924		882	46.1	29	72.4	274	48.9	546
Adairville city	10 733		10 122	46.1	29	72.4	2 792	43.3	546
Adairville city	2 124		1 977	33.4	2		544	48.6	32
Adairville city	2 154		1 997	33.4	2		544	48.6	32
Adairville city	2 396		2 306	41.1	2		100	49.4	19
Anderson County									
Anderson County	14 860	4.8	13 860	48.2	78	34.2	4 279	49.6	528
Andersonville city	2 013		1 847	41.3	21		764	47.6	81
Andersonville city	2 772		2 592	41.3	22		799	51.4	89
Andersonville city	2 222		2 027	41.3	12		744	51.4	89
Andersonville city	9 216		8 572	48.8	49	37.5	3 546	49.6	433
Andersonville city	1 140		1 044	43.9	12	12.5	2 094	46.7	203
Andersonville city	2 654		2 487	43.3	16		771	48.0	194
Boone County									
Boone County	29 253	8	19 199	54.1	60	53.3	4 768	48.3	713
Booneville city	17 190		16 175	58.9	32	31.3	3 019	46.9	440
Booneville city	2 251		2 029	44.8	7		73	47.9	60
Booneville city	8 259		7 623	47.8	20	27.2	1 291	45.3	209
Booneville city	3 243		3 023	41.0	26	78.6	1 949	45.0	269
Bourbon County									
Bourbon County	14 714	3	13 843	39.9	47	27.7	4 461	44.4	576
Bourbonville city	1 576		1 489	32.2	4		586	44.9	74
Bourbonville city	2 728		2 576	40.0	23	26.1	837	43.8	106
Bourbonville city	1 441		1 356	43.1	4		506	41.6	62
Bourbonville city	6 848		6 429	49.3	4		2 145	41.9	245
Bourbonville city	2 343		2 227	43.9	4		708	43.3	143
Butler County									
Butler County	23 047	4	22 288	49.5	157	33.8	6 452	52.3	917
Butler County	11 414		10 969	32.2	129	28.3	3 887	51.8	604
Butler County	2 288		2 086	34.6	5	34.0	3 018	48.2	404
Butler County	3 979		3 699	45.2	32	91.4	1 147	54.3	146
Butler County	7 750		7 388	43.3	32		42	38.5	16
Calloway County									
Calloway County	24 074	3	23 718	48.8	113	38.9	7 025	47.5	888
Calloway County	32		31	39.4	2		597	48.0	71
Calloway County	3 526		3 321	43.2	18		1 090	46.2	86
Calloway County	14 835		13 825	47.1	66	34.8	4 244	47.6	454
Calloway County	4 228		3 740	51.0	21	28.1	1 680	50.4	199
Calloway County	4 369		4 126	47.3	37	77.8	1 134	47.6	191
Calloway County	921		841	53.6	10	100.0	258	53.1	28
Carter County									
Carter County	15 145	6	14 097	48.1	80	32.2	4 349	48.4	687
Carter County	13 448		12 521	47.6	80	32.2	3 863	48.6	644
Carter County	7 607		7 120	45.5	38	35.3	2 148	44.2	312
Carter County	1 897		1 576	51.8	16		486	44.3	23
Cass County									
Cass County	6 891	3	6 351	43.4	33	45.1	1 978	49.5	178
Cass County	3 626		3 390	44.3	36	42.1	1 042	53.1	57
Cass County	64		44	46.2	5		2		
Cass County	3 175		2 941	40.0	5	60.0	924	45.6	121
Cass County	765		689	43.2	2		191	51.8	43
Cedar County									
Cedar County	21 145	3	19 885	41.5	78	48.7	5 399	48.4	781
Cedar County	18 257		16 592	44.3	59	42.4	4 298	46.8	722
Cedar County	2 577		2 407	46.1	21	47.6	713	43.0	93
Cedar County	2 407		2 149	33.5	18		442	49.0	39
Cedar County	3 412		2 329	29.6	19	68.4	1 458	39.3	19
Christian County									
Christian County	10 940	2	10 191	32.7	146	68.2	3 126	47.4	378
Christian County	4 590		4 182	48.2	50	68.0	1 298	48.9	175
Christian County	1 764		1 692	33.9	6		518	42.2	124
Christian County	2 548		2 304	33.0	6		700	48.8	94
Christian County	3 489		3 201	33.1	60	41.2	1 154	51.4	144
Christian County	2 482		2 277	37.7	9		399	48.9	64
Christian County	1 312		1 233	31.3	5		282	32.2	41

Table 7. Selected Social Characteristics, 1990 - Con.
 (Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see page 10.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Family households, as % of total households			
	Total	Percent foreign born	Total	Percent living in different language in 1985	Persons 5 to 17 years		Married-couple family					
					Total	Percent who do not speak English well	Total	Percent with own children under 18 years				
Adair County	16,487	2	15,429	34.3	79	31.4	4,393	51.7	3,382	52.1	459	58.9
Adairville	786	94.0	738	94.0	15	20.0	232	38.8	194	42.1	29	41.4
Adrian	171	94.5	161	94.5	10	20.0	58	39.7	59	46.7	19	21.1
Adrianville	1,012	94.4	927	94.4	17	29.4	36	36.7	346	34.1	21	21.1
Adrianville	8,474	94.7	7,937	94.7	37	29.4	232	49.7	2,650	30.9	449	51.4
Adrianville	5,075	94.7	4,751	94.7	27	29.4	136	49.7	1,680	30.9	299	51.9
Adrianville	2,401	94.5	2,250	94.5	12	40.0	64	58.2	528	61.7	63	44.4
Adrianville	621	94.3	573	94.3	5	100.0	23	55.5	182	34.7	27	44.8
Adrianville	1,008	94.4	933	94.4	12	50.0	211	55.5	170	49.4	27	70.4
Adrianville	144	100.0	134	100.0	9	100.0	27	66.7	23	55.0	5	68.0
Adrianville	1,843	94.9	1,791	94.9	9	100.0	42	66.7	32	55.0	5	68.0
Adrianville	27,205	71.3	25,404	71.3	154	18.6	372	56.4	364	54.3	28	57.1
Adrianville	9,380	71.2	8,999	71.2	75	24.0	239	42.4	739	42.1	70	52.1
Adrianville	3,889	73.6	3,702	73.6	25	9.3	239	42.4	2,374	43.1	209	68.2
Adrianville	3,777	76.7	3,575	76.7	22	9.3	178	39.7	1,013	37.6	142	52.8
Adrianville	12,204	72.1	11,480	72.1	70	15.7	370	32.2	3,296	35.9	28	71.4
Adrianville	2,331	71.6	2,196	71.6	15	40.0	77	45.9	618	43.5	99	50.0
Adrianville	5,421	59.0	5,127	59.0	11	11	1,079	38.1	1,498	38.7	99	62.2
Adrianville	12,526	79.7	11,980	79.7	57	42.1	3,509	58.5	2,941	58.0	454	62.1
Adrianville	6,797	81.5	6,447	81.5	43	29.2	1,948	57.5	1,444	58.0	218	51.8
Adrianville	404	81.2	384	81.2	9	22.2	135	44.7	97	49.5	31	44.1
Adrianville	1,240	74.4	1,132	74.4	17	100.0	348	65.2	797	67.7	51	71.0
Adrianville	4,289	75.1	3,951	75.1	16	16	1,213	58.1	978	54.5	185	77.3
Adrianville	346	77.3	354	77.3	2	2	96	44.9	80	50.0	14	35.7
Adrianville	16,646	84.1	15,334	84.1	45	47.7	470	48.5	3,798	48.4	740	50.4
Adrianville	1,482	94.7	1,446	94.7	4	4	502	48.8	3,798	48.4	740	50.4
Adrianville	1,136	92.4	1,042	92.4	4	4	4	48.8	4	48.4	7	30.1
Adrianville	14,313	85.1	13,948	85.1	61	72.1	470	48.8	3,378	73.3	75	38.1
Adrianville	313	86.3	293	86.3	2	2	4	46.4	30	47.8	647	42.9
Adrianville	75	85.4	69	85.4	6	100.0	94	49.9	75	52.0	1	42.9
Adrianville	7,148	85.4	6,677	85.4	13	100.0	1,916	57.1	1,363	43.6	1	42.9
Adrianville	777	79.8	736	79.8	12	25.0	247	47.8	1,363	43.6	42	34.4
Adrianville	24,170	61.5	21,726	61.5	216	34.3	6,779	58.9	5,911	60.0	396	55.2
Adrianville	3,481	84.0	3,234	84.0	6	6	994	49.7	5,911	60.0	107	34.4
Adrianville	8,301	81.3	7,897	81.3	32	31.3	2,367	50.6	2,023	52.2	254	52.8
Adrianville	1,834	79.0	1,704	79.0	10	20.0	503	50.5	3,380	45.5	102	47.0
Adrianville	131	87.3	126	87.3	4	4.3	79	53.8	25	54.0	8	75.0
Adrianville	12,178	49.8	10,395	49.8	178	34.0	3,432	67.4	3,099	68.2	235	66.4
Adrianville	4,088	12.7	3,997	12.7	167	32.9	1,679	83.6	1,623	83.1	41	100.0
Adrianville	1,376	42.5	1,219	42.5	11	81.8	390	51.5	1,307	52.1	47	58.2
Adrianville	5,092	82.5	4,757	82.5	8	2.3	1,503	49.4	1,260	48.3	177	60.5
Adrianville	2,897	86.0	2,704	86.0	2	7.1	880	50.6	1,747	48.5	115	48.7
Adrianville	2,195	72.5	2,053	72.5	2	2	130	63.1	90	55.6	38	81.4
Adrianville	2,148	76.6	2,053	76.6	6	6	623	47.7	513	46.0	42	45.2
Adrianville	19,148	86.4	17,979	86.4	52	52	40	47.5	25	64.0	7	42.9
Adrianville	3,101	86.1	2,926	86.1	11	11.1	5	44.8	4	43.2	676	54.4
Adrianville	1,079	89.2	1,046	89.2	3	3	940	38.6	810	37.2	75	46.7
Adrianville	12,324	89.2	11,841	89.2	29	51.7	3,469	44.3	3,041	41.9	34	52.9
Adrianville	3,323	89.2	3,154	89.2	6	100.0	1,034	43.6	1,015	42.4	526	55.9
Adrianville	8,963	85.1	8,491	85.1	12	43.4	1,463	47.5	1,915	46.1	390	57.4
Adrianville	2,340	86.7	2,160	86.7	44	45.6	2,421	46.4	2,346	46.2	278	50.7
Adrianville	4,138	83.3	3,897	83.3	31	74.2	1,415	47.6	1,415	47.6	36	58.3
Adrianville	1,477	81.3	1,382	81.3	15	26.0	1,193	48.1	949	45.4	183	44.2
Adrianville	2,554	84.5	2,382	84.5	6	100.0	404	45.3	387	46.0	81	81.4
Adrianville	11,491	84.5	10,701	84.5	104	14.2	763	42.9	682	46.0	99	8.5
Adrianville	2,252	84.0	2,104	84.0	12	12	330	46.7	2,766	46.7	397	43.8
Adrianville	4,270	81.0	4,040	81.0	2	4	480	33.8	3,499	39.0	93	55.9
Adrianville	1,871	85.5	1,784	85.5	3	50.0	134	46.3	1,070	36.2	6	39.3
Adrianville	7,258	84.6	6,811	84.6	22	22	474	51.3	488	50.2	20	24.4
Adrianville	2,841	82.5	2,483	82.5	22	22	2	48.2	1,582	30.2	173	43.9

Table 1. Selected Social Characteristics: 1990—Con.

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households		Female householders, on their own	
	Total	Percent foreign born	Total	Percent living in different language in 1985	Persons 18 years and over		Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
					Total	Percent who do not speak English well				
Anderson County	19 541	2	19 332	44.6	129	48.8	5 448	30.0	4 727	48.7
Anderson County	5 445	2	5 285	39.2	15	28.8	1 640	52.9	1 417	52.7
Anderson County	1 019	3	995	42.8	3	38.0	240	51.7	240	52.9
Anderson County	1 854	4	1 725	44.2	6	38.0	539	54.5	488	53.2
Anderson County	13 916	3	13 031	44.7	14	52.6	4 028	48.8	3 310	47.0
Anderson County	5 342	1	5 048	48.3	10	41.7	1 450	100.0	1	100.0
Anderson County	11 648	1	10 986	38.2	36	41.7	1 450	45.2	1 043	45.2
Anderson County	2 153	-	2 021	31.8	99	28.3	3 244	51.8	2 709	52.3
Anderson County	2 427	-	2 306	35.3	34	38.2	3 066	48.8	2 442	48.6
Anderson County	3 507	-	3 426	30.4	16	63.2	3 973	50.9	4 494	51.2
Anderson County	1 867	-	1 798	25.1	7	32.5	746	56.7	652	56.6
Anderson County	1 592	-	1 459	27.8	21	57.1	921	51.5	778	45.7
Anderson County	31 318	-	29 413	27.1	6	19.4	448	47.1	343	48.1
Anderson County	5 427	1	5 279	34.1	90	40.1	9 036	47.5	7 495	47.1
Anderson County	2 555	2	2 418	29.2	18	27.8	1 094	46.7	7 495	45.9
Anderson County	8 107	1	7 708	41.1	9	39.8	2 391	62.3	1 822	75.5
Anderson County	4 974	2	4 782	32.6	54	42.6	1 464	41.7	1 078	45.3
Anderson County	1 163	-	1 122	28.2	2	10.2	38	60.0	38	60.5
Anderson County	3 999	-	3 717	29.4	33	100.0	1 127	90.4	940	90.5
Anderson County	12 082	-	11 364	36.9	4	15.4	3 489	57.1	2 764	45.4
Anderson County	4 489	3	4 238	42.6	52	28.0	1 011	44.4	811	45.4
Anderson County	4 745	3	4 458	28.9	16	16.7	1 274	41.7	1 198	37.9
Anderson County	1 482	-	1 409	23.3	12	16.7	340	49.7	313	52.2
Anderson County	1 487	-	1 416	28.9	16	73.8	565	52.8	415	54.2
Anderson County	39 710	5	37 507	49.8	6	33.4	8 165	54.5	6 393	53.6
Anderson County	16 174	2	14 909	42.5	30	31.1	4 428	53.9	3 393	54.9
Anderson County	4 881	8	4 309	30.5	112	38.4	1 245	47.1	949	47.1
Anderson County	2 844	3	2 742	33.3	16	33.3	843	41.5	755	40.9
Anderson County	2 573	5	2 385	29.7	9	28.5	240	28.5	201	28.5
Anderson County	4 743	1	4 517	40.7	18	33.3	1 076	53.2	816	53.2
Anderson County	4 181	2	4 014	41.8	64	31.3	1 254	54.9	974	54.9
Anderson County	3 275	6	3 014	10.3	15	100.0	39	59.0	34	58.3
Anderson County	77	5	742	25.3	1	64.7	822	50.7	475	57.7
Anderson County	6 725	-	6 337	34.0	33	64.2	1 339	45.8	1 017	44.7
Anderson County	4 717	-	4 549	34.5	34	58.8	1 324	44.9	1 047	45.0
Anderson County	2 008	-	1 947	36.6	9	44.4	453	38.8	352	35.8
Anderson County	21 165	3	19 697	38.9	19	73.7	613	43.4	539	44.8
Anderson County	6 135	12	5 722	46.9	46	56.5	1 095	47.9	815	44.8
Anderson County	2 872	1	2 635	40.3	26	100.0	1 048	48.3	772	46.8
Anderson County	1	-	100.0	100.0	2	75.0	400	42.3	329	48.3
Anderson County	1 347	-	1 281	37.2	4	40.0	100	35.0	83	33.6
Anderson County	2 489	-	2 437	34.7	10	30.0	638	30.0	464	44.6
Anderson County	3 689	-	3 408	35.3	2	51.4	1 115	47.8	726	47.8
Anderson County	2 308	-	2 202	42.1	11	11.8	1 223	43.7	924	39.9
Anderson County	2 082	-	1 947	49.7	36	57.9	541	42.8	451	42.8
Anderson County	2 082	-	1 947	31.5	26	46.9	572	45.4	482	45.4
Anderson County	1 997	-	1 847	36.6	12	57.2	540	37.2	494	37.9
Anderson County	1 997	-	1 847	32.5	21	19.0	573	49.4	504	49.4
Anderson County	1 396	-	1 347	28.6	2	100.0	115	40.2	84	41.7
Anderson County	24 240	13	22 536	36.3	2	100.0	1 115	30.4	92	53.3
Anderson County	13 483	13	12 536	32.3	549	38.1	3 014	57.0	2 063	54.2
Anderson County	6 823	17	6 438	47.9	48	51.8	2 753	33.8	2 043	31.8
Anderson County	19 915	14	18 547	49.0	306	27.5	5 112	33.8	3 315	32.3
Anderson County	2 487	19	2 286	43.5	20	28.6	485	32.9	315	32.9
Anderson County	1 086	13	1 004	36.4	35	21.1	485	44.0	325	44.0
Anderson County	1 271	17	1 193	47.2	9	100.0	79	77.2	63	77.2
Anderson County	1 271	17	1 193	47.2	24	33.3	333	44.1	269	44.1

County/City	All persons		Persons 5 years and over		Persons 18 years and over		Persons who speak a language other than English at home		Family households		Persons 65 years and over		
	Total	Percent foreign born	Total	Percent born in different countries in 1985	Total	Percent who do not speak English well	Total	Percent who do not speak English well	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	
Clark County	9,025	82.9	8,474	38.2	70	34.4	28.0	2,417	47.0	2,728	45.9	285	54.4
Cincinnati	2,271	80.1	2,147	34.7	14	49.2	24.0	647	49.2	591	45.7	56	79.6
Mason City	2,350	85.1	2,176	31.2	5	44.7	-	45	42.1	617	43.1	58	71.4
Springfield	4,414	87.8	4,151	46.6	11	45.5	-	713	46.7	611	42.1	102	62.3
Cincinnati (part)	1,319	81.2	1,248	42.2	4	60.0	31.8	1,237	43.6	1,030	43.8	71	47.8
Covington County	5,036	92.0	4,717	34.9	23	100.0	40.0	1,427	47.8	1,182	46.8	140	54.3
Cincinnati	3,006	90.2	2,772	33.1	45	100.0	40.0	842	50.7	659	46.8	124	54.8
Cincinnati	2,279	94.1	2,232	19.3	3	60.0	40.0	50	18.0	43	16.3	5	49.6
Cincinnati	1,287	92.5	1,241	34.4	6	100.0	-	239	45.7	216	43.1	8	100.0
Daviess County	12,026	85.2	11,048	45.8	88	29.5	42.3	3,408	50.4	2,903	50.3	424	59.9
Cincinnati	5,337	84.5	5,070	40.6	42	19.0	17.4	1,500	52.8	1,435	53.2	132	52.1
Cincinnati	4,629	86.0	4,318	46.4	3	47.4	20.0	1,645	35.8	1,177	33	33	45.5
Cincinnati	2,378	84.7	2,206	51.3	38	63.6	51.1	1,318	48.7	1,060	47.6	204	54.4
Cincinnati	1,620	85.1	1,440	54.9	8	100.0	38.1	638	45.2	470	44.9	113	44.9
Daviess County	38,283	90.4	35,426	31.4	48	16.7	37.1	8,404	53.0	6,875	54.6	1,307	45.4
Cincinnati	1,012	88.4	950	28.9	7	100.0	40.0	304	45.1	250	44.9	34	64.7
Cincinnati	2,065	94.3	1,830	18.0	4	-	-	612	54.3	529	45.3	54	74.4
Cincinnati	2,067	93.6	1,940	28.4	3	40.0	40.0	403	54.3	342	51.0	72	49.6
Cincinnati	2,253	91.1	2,141	40.2	8	100.0	33.1	77	50.4	64	46.8	7	57.1
Cincinnati	2,605	89.2	2,428	35.9	30	100.0	33.1	487	49.6	376	49.7	84	59.8
Cincinnati	13,816	89.6	14,081	44.7	23	13.7	73.7	4,539	47.0	4,444	45.7	409	57.9
Cincinnati	3,319	89.0	3,027	29.2	6	-	-	1,497	43.8	1,041	43.7	107	56.7
Cincinnati	3,455	93.0	3,270	29.2	6	-	-	1,877	50.3	1,768	48.9	87	52.9
Daviess County	71,588	79.0	66,884	32.7	214	35.5	24.0	21,072	51.2	17,721	51.1	2,569	51.4
Cincinnati	3,276	82.7	3,117	41.0	12	42.9	24.0	666	53.9	599	48.5	31	44.3
Cincinnati	3,884	85.0	3,627	27.4	20	35.3	42.9	1,144	48.4	978	52.0	109	48.4
Cincinnati	4,088	83.0	3,820	34.0	21	33.3	35.3	1,143	46.6	978	46.6	119	36.3
Cincinnati	818	81.3	781	23.1	2	25.0	25.0	231	49.8	197	26.1	43	34.9
Cincinnati	4,915	85.2	4,579	17.8	30	46.7	25.0	1,277	57.0	1,099	53.8	156	46.8
Cincinnati	2,226	81.8	2,077	31.2	17	100.0	100.0	685	55.8	557	55.7	75	70.7
Cincinnati	3,436	85.3	3,251	23.8	8	100.0	100.0	774	41.6	680	44.6	102	43.7
Cincinnati	4,024	89.9	3,823	27.3	8	100.0	100.0	1,033	50.5	909	52.9	79	40.5
Cincinnati	4,022	84.2	3,823	27.3	8	100.0	100.0	1,792	54.8	1,555	54.8	119	48.3
Cincinnati	1,301	82.0	1,207	27.7	8	100.0	100.0	761	51.5	626	54.0	53	43.4
Cincinnati	14,255	78.0	13,237	43.6	56	16.9	24.9	4,110	36.2	3,780	51.3	475	57.5
Cincinnati	4,324	83.9	4,029	32.8	22	27.3	24.3	1,176	49.0	1,047	35.8	9	55.6
Cincinnati	4,344	87.4	4,029	32.8	22	27.3	24.3	1,244	55.1	1,047	49.0	40	52.2
Cincinnati	3,371	83.4	3,147	34.6	17	44.0	25.3	1,049	57.9	897	57.9	142	42.3
Cincinnati	8,347	87.4	7,867	27.3	39	44.0	25.3	2,426	46.2	1,978	50.1	203	39.6
Daviess County	11,488	88.3	10,822	39.4	32	23.2	23.2	3,300	53.3	2,658	53.8	477	53.7
Cincinnati	1,488	88.7	1,402	39.6	15	35.3	23.2	300	54.6	248	54.8	47	38.9
Cincinnati	1,228	88.9	1,168	39.3	1	40.0	40.0	1,257	54.6	1,000	49.4	66	50.5
Cincinnati	6,275	87.9	5,819	37.7	17	14.4	14.4	1,779	52.2	1,401	52.8	277	50.5
Cincinnati	2,737	82.9	2,542	45.1	22	44.0	25.3	745	47.2	541	51.5	109	44.0
Daviess County	48,489	81.0	46,407	42.1	344	33.2	24.8	14,554	44.4	12,411	45.0	1,743	52.8
Cincinnati	4,823	74.5	4,535	41.8	26	34.4	19.8	447	44.7	372	43.7	127	38.9
Cincinnati	4,823	87.2	4,535	35.3	4	100.0	100.0	1,147	53.1	935	53.3	131	48.8
Cincinnati	4,245	84.5	4,035	39.4	4	100.0	100.0	1,510	47.5	1,362	47.3	14	37.3
Cincinnati	1,311	79.2	1,318	44.5	2	8	34.2	84	34.2	64	34.2	53	43.3
Cincinnati	4,274	87.2	4,038	37.6	22	35.3	20.0	1,340	44.8	1,122	41.4	88	44.3
Cincinnati	4,000	82.0	3,772	34.8	26	35.3	20.0	1,198	45.9	1,022	46.4	148	49.8
Cincinnati	2,476	76.7	2,370	34.2	7	100.0	100.0	1,193	43.0	1,040	45.4	34	38.5
Cincinnati	2,216	87.7	2,102	35.2	7	100.0	100.0	644	44.5	572	45.4	71	42.8

Table 1. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home		Family households			Female householder, no husband present		
	Total	Percent foreign born	Total	Percent living in different homes in 1985	Persons 5 to 17 years		Total	Percent with own children under 18 years	Married-couple family			
					Total	Percent who do not speak English well			Total		Percent with own children under 18 years	Total
Wolfe County	6 503	—	6 091	38.8	17	70.8	1 875	53.7	1 438	51.1	366	64.5
Compton division	3 404	—	3 216	37.7	11	100.0	1 979	53.4	1 438	51.1	366	64.5
Compton city	2 489	—	2 459	41.5	3	64.7	1 354	44.3	984	32.2	225	63.6
Hazel Green division	2 076	—	1 914	38.6	5	100.0	1 001	41.1	539	43.0	41	51.2
Hazel Green city	1 021	—	961	35.8	13	46.2	401	52.9	205	49.4	51	90.2
Madison division	19 955	5	18 538	49.5	119	27.7	5 716	49.7	4 871	49.8	680	47.6
Madison County	2 183	—	2 061	48.0	17	17.6	961	49.6	475	49.7	66	45.5
Madison city	1 270	—	1 227	41.2	2	—	318	44.7	250	44.8	56	46.4
Verona division	14 864	5	13 765	51.0	108	26.0	4 800	50.4	3 618	50.1	567	51.0
Verona city	7 269	1	6 728	49.5	44	61.4	2 089	49.2	1 598	48.1	378	55.3
Woodford County	2 886	6	2 692	42.9	9	—	857	46.7	778	48.5	47	10.6
Woodford South division												

Public-Safety Planning Committee

Region 17

Jack Y. Sharp

Kentucky State Police

1240 Louisville Road

Frankfort, Kentucky 40601

502-227-8750

Attachment 5

Public-Safety agencies across the United States have been trying to procure additional radios frequencies for use by their agencies. Many of the present frequencies available to public-safety agencies are saturated. The Federal Communications Commission (FCC) is attempting to help with this problem.

The FCC has allocated an additional range of frequencies (800 MHz) for use by "Public-Safety" agencies across the nation. However, in order for any of the frequencies to be licensed or used, there must be a statewide plan developed and approved by the FCC. This plan must include the method for evaluating requests and the awarding of the frequencies.

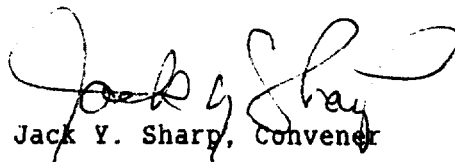
This plan must be developed by a cross-section of the future users of these frequencies. Therefore, an organizational meeting of all potential users of these frequencies has been scheduled for 9:30 AM, EST, June 1, 1989, at the Capital Plaza Hotel, 405 Wilkinson Boulevard, Frankfort, Kentucky.

This meeting and ultimately the final plan could be extremely important to your agency since all future approvals for frequencies will be determined by the policies formulated by this group.

Additional frequencies are badly needed by several public safety agencies in Kentucky today. In light of this, the development of the statewide plan for allocation of these additional frequencies will be expedited as much as prudently possible.

Attached is a copy of the agenda for the June 1 meeting and a response form that will inform us of the number of your personnel who will be attending this meeting. Please return this form to us no later than May 22, 1989, so that sufficient meeting space can be arranged.

I shall look forward to seeing you on June 1.


Jack Y. Sharp, Convener

JYS:baf

**Public Safety 800 Mhz Regional Planning Meeting
Capital Plaza Hotel
405 Wilkinson Blvd.
Frankfort, Kentucky 40601**

June 1, 1989

AGENDA

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| <b>TIME</b> | <b>EVENT</b>                      |
|-------------|-----------------------------------|
| 9:00 am     | Coffee and Rolls                  |
| 9:30 am     | Call to Order<br>Welcome Everyone |
| 9:35 am     | How All This Got Started          |
| 9:40 am     | What is 800 Trunking              |
| 10:30 am    | 800 Mhz National Plan             |
| 10:40 am    | 800 Mhz Regional Plan             |
| 11:00 am    | Necessary Business                |
|             | Adjournment                       |

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**Public-Safety Planning Committee
Region 17
Jack Y. Sharp
Kentucky State Police
1240 Louisville Road
Frankfort, Kentucky 40601
502-227-8750**

I plan to attend the 800 MHz Regional Planning Meeting being held on June 1, 1989, beginning at 9:30 AM, EST, at the Capital Plaza Hotel, 405 Wilkinson Boulevard, Frankfort, Kentucky.

There will be _____ individuals attending with me. I will be representing the _____ Department.

My name and address is as follows:

Names of other attendees:

Please mail this form to the address at the top of the page on or before May 22, 1989, so proper room arrangements can be made.

PUBLIC-SAFETY PLANNING COMMITTEE
ATTENDANCE SHEET

NAME	ADDRESS/TELEPHONE
Paul Warnecke	KY. Div. of Telecommunications 564-5266
LARRY Scott	" 564-5397
Ed HAUSER	Highland Heights PD 441-8956
Roger Noble	" "
Mike Fishore	Ky Fire & Lifeline 504-3176
Brian O'Kell	KSP.
Bill Stewart	KSP
Charles Trudgelm	Henderson Fire Dept 826-2177
Esther Thompson	Henderson E-911 827-8700
Richard Payne	DAVISS Co. S.O. 685-8444
DENNIS G. Ebelhar	DAVISS CO FISCAL CL 685-8424
ERIKA W. CANTER	NICHOLASVILLE P.d. 885-9466
MARGARET BRALEY	" " "
Bill, Henri.	OWENSBORO, KY 685-8448
Ray Whitt	Woodford Co. Ky 873-9320
Hunter Shunk	Woodford Co. Ky 873-8057
GALEN KISER	BOONE CENTER FRK, KY 864-8617
DENNIS K. SULLIVAN	JEFFERSON COUNTY EMS 229-6707
DON MORRIS	LOUISVILLE EMS 636-3530
Tom BRIDGES	P.O. Box 6, Pikesville, Ky Campbell County P.D. 635-3123
Rick SEARS	Newport PD 292-3627
ARTIE E. PORTER	SPRINGFIELD PD 336-3953
BRENDA ROBINSON	STATE EMS BRANCH, FRANKFORT 564-8948
ATWELL, LARRY B.	NEWPORT FIRE 292-3615
Bill Engel	Covington Fire (606) 292-2213
Daniel Thuff	Cumberland Co Amb (507) 804-2525
Harry "Harry" Pitt	TOWNE SERVICES CORP 606 684-7-120
Mark March	" " " " " "

PUBLIC-SAFETY PLANNING COMMITTEE
ATTENDANCE SHEET

NAME	ADDRESS/TELEPHONE
Maurice Stettin	General Electric Co. - Lou Ky 40225
Hale Clark	General Electric Lexington Ky 40503
Charles H. [unclear]	Shelbyville Police Dept. Shelbyville Ky 40065
Joseph H. Medley Jr. C.P.U.	3528 Newtons Dr, Ky 40218 / 502-452-2671
John Hawkins	105 Pigeon Trail Frankfort Ky 40601 502/695-3589
Murray Walker Jr	Rt 2 Farmfield Ky 40069 606-336-361
Bob Stelli	KSP - Frankfort
Craig Birdwell	Georgetown PD 502 8637826
Charlie Hudson	Grant Co. Sheriff Dept 606 824-3333
Russell Ingram	KY DEPT OF HIGHWAYS Div of Equip. ^{WILKINS BLVD} ^{Frankfort} 502-3916
Sid Hesel	Georgetown DES - 502-863-7848
Bill Gordon	Paducah Police Dept 502 444-8551
George Coleman	AMERICAN P.O. 502-444-8628
Kang Hefeshy	Life Star Ambulance 606-638-4588
Mittie Leachy	Life Star Ambulance 606-638-4588
Paul W. Evans	315 W. SECOND, FRANKFORT, KY 875-8582
Wendell Bryant	Frankfort Police 875-8549
J. E. Schmeckel	5766 Madison PK Indev 356-3191
W. E. [unclear]	5766 Madison PK Indev 356-3191
Wesley R. McClintock	231 Elm St Louisville Ky 261-8185
DARRELL BRANGERS	3611 Rineyville Rd. E-Town 765-7785
RUBEN L. GARDNER	E-TOWN P.O. 765-4125
James B. Morse	Adham Co Dispatch 222-0111
Ernest L. Miller	1306 Bends Tank Rd Lou Ky 40221 588-2440
Barbara Cosby	Jeffersonton P.O. 3015 Bluebird Dr Jefferson, Ky 267-050
Dennis Hughes	Jefferson Co. Patrol 502-454-4674
Paul Bose	" " " " " " " "
GENE WEAVER	74 Wright Police Dept 606-331-2191 1661 PARK RD. FT. WRIGHT, KY 41011

PUBLIC-SAFETY PLANNING COMMITTEE
ATTENDANCE SHEET

NAME	ADDRESS/TELEPHONE
WALTER ATHERTON	4005 COBLET DR. OWENSDOWN 42303 DAVRESS COUNTY 926 1873
Connie Grimes	Wilmore P.D. 858-3535
Roger Swallows	Wilmore P.D. 858-3535
Ronnie Miller	325 Ann St. Frankfort, Ky. 223-4449
Bobbe Ramsey (Motorola)	12955 Shelbyville Rd. Louisville, Ky. 244-8494
Col. C. M. Wilson	119 E. Main Murphysfield 502 389-4357
RALPH QUARLES	KY DOT RADIO SECTION 502 564 3935
John C. Farnones	KY DOT Radio Section 502-564-3935
Robert F. Talley	Paducah, Ky. 502 444-8537
ALLIE MORGAN	PO BOX 2114 742002 CITY OF PADUCAH P.O. BOX 2267. (502) 442-3919
Raymond	City of Frankfort 825-8544 315 N. 2nd St.
John Brooks	City of Frankfort, 215 W. 2nd. Street (502) 875-8515
Sgt James Perkins	City of Union Hill Police. (606) 341-1515
Amanda Beauchamp	Reg Hqpt. Health. Low 502 368-6524
JIM OWEN	" "
James Stinson	MOTOROLA, CINTI 513/563-2145
Howard V. Langston	150 E MAIN ST. Lex., KY PD 606/258-3619
BILL ADKINS	7431 US Hwy. 42 Florence ^{BOONE CO.} DES 606/371-5495
Capt. Ray Wilson	Boone County Police. 606-334-2115
Rick Cox	Ky DES Owensboro Ky 683-6287
David Hill	Motorola 2116-A ^{OAK TREE} ULLA HOPKINSVILLE KY (502) 886-034
Ronnda Heideman	Park Hills P.D. 1106 Amsterdam Rd 606-431- PARK HILLS, Ky 41001 6172
Robert A. Eifert	1661 PARK Rd 606-331-1700 City of Ft. Wright Ft. Wright Ky 41001
CHARLES PRATHER	Ky Div. 4 Forestry 627 Comanche FR 40601 564-4496
RON MEADOWS	LEXINGTON FIRE DEPT. 219 E. THIRD ST. LEX, KY 40508 254-1120
Tom Darnell	112 West 1st St. Hopkinsville, Ky. 42240 502-887-4030
Ron Bain	(606) 254-1120. 219 E. Third St. Lexington Fayette Heber Co. Government. Div. of Fire Lexington
JOHN WILSHIRE	LEX. FAYETTE " " (POLICE) 233-1676

PUBLIC-SAFETY PLANNING COMMITTEE
ATTENDANCE SHEET

502-982-9135

NAME

ADDRESS/TELEPHONE

Chief J.R. Wright	West Point Police 509 Elm West Point, Ky 40177
Tom [unclear]	Delorene Police 7421 US 42 Florence, Ky 41042
Chief A.B. Snowden	360 Broadway Mt Sterling, Ky 40353 606-498-2101
William J. Foley	St. Pats Park, Ky 40220 502-458-6351
Willie B. [unclear]	Lex. Police 124 MAIN 606-258-3614
MARKS TANNER	1641 MT ZION RD UNION KY 41091 384-46
Joseph R. Lamborn	220 N. 5th ST. Bardstown, Ky 40004
James D. [unclear]	422 SOUTH 6th ST Bardstown Ky 410
Ron [unclear]	PO BOX 75-2000 CANTONIA OH 45205
[unclear]	1982 Twain Rd Lex. Ky 606-223-8578

PUBLIC NOTICE

To all Public Safety Organization Administrators: Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public Safety Communications Officers (APSCO) as the Convenor of an initial meeting of representatives of parties eligible to participate in the FCC Public Safety National Emergency Plan, the State of Kentucky Public Safety Communications Plan, Kentucky Public Safety Plan, and Public Notice that such committee is composed of such parties and will submit the plan to the FCC. The final planning meeting will be held on January 22, 1993 at the State Police Academy, Frankfort, KY beginning at 9:00 A.M. This plan is based on FCC Report & Order in General Order 87-112 adopted by the FCC on November 24, 1987. The Report & Order was primarily developed from information from the Final Report of the National Public Safety Planning Advisory Committee (NPSAPAC) which was submitted to the FCC on September 9, 1987. Copies of Order 87-112 and the NPSAPAC can be obtained from the FCC, Attention: Contractor, Registration Services, Inc., Suite 140, 2100 M St., NW, Washington, DC 22057, Phone (202) 357-3800. Any other information, call KY State Police, 1240 Airport Road, Frankfort, KY 40601, Tel: 502-227-8750.

1/22/93

January 21, 1993

TO WHOM IT MAY CONCERN:

Region 33, Ohio Chairman called the Region 17, Kentucky Chairman at 1507 hours on January 21, 1993 conditionally approving the Kentucky 800 Mhz plan for submission to the FCC. Due to the limited availability of spectrum, bordering state counties will be coordinated with adjacent states.

Don Flahan, Region 33 Chairman

National Public Safety Planning Advisory Committee

NPSPAC REGION 24 MISSOURI

January 22, 1993

Mr. Jack Y. Sharp
Kentucky State Police
1240 Airport Road
Frankfort, Kentucky 40601

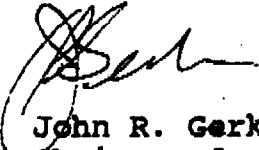
Fax: 502-227-8788

Dear Mr. Sharp:

I have reviewed your Final Draft for NPSPAC Region 17.

There is little conflict between the packing for your Region and the packing for our region. Considering the potential that our region might require some changes in the packing I want to assure you that I concur with your plan and that there will be very close pre-allocation coordination with your region.

Thank you.



John R. Gerke
Chairman for Region 24
State of Missouri
800 mhz Planning
City of St. Louis Communications
4971 Oakland Ave.
St. Louis, MO 63110

(V) 314 533-5802
(F) 314 534-7059



COMMONWEALTH of VIRGINIA

Department of Information Technology

110 SOUTH SEVENTH STREET
RICHMOND, VIRGINIA 23219
(804) 344-5000

J. WESTWOOD SMITHERS, JR.
Director

TDD VOICE - TEL. NO.
371-8076

January 15, 1993

Mr. Jack Y. Sharp
Kentucky State Police
1240 Airport Road
Frankfort, Kentucky 40601

Dear Mr. Sharp:

Final Draft copy of Region 17 Plan has been forwarded to the Region 42 chairman.

I was chairman of the Region 42 Planning Committee, which ceased to exist upon FCC acceptance of the Region 42 Plan in December, 1991. Correspondence with the Region 42 Committee should be sent to the chairman per the following address:

Captain Braxton G. Bell, Chairman
Region 42 Committee
12711 Old Chestnut Circle
Midlothian, Virginia 23112

Yours truly,

A handwritten signature in cursive script that reads 'Harry J. Miller'.

Harry J. Miller
Senior Radio Engineer



Public-Safety Planning Committee

C/O: George Sneyd, Chairman
 531 Sangamon Avenue, Springfield, Illinois 62702
 Phone (217) 782-7345

January 20, 1993

Mr. Jack Y. Sharp
 800 MHz Regional Planning Committee
 Region 17
 C/O Kentucky State Police
 1240 Airport Road
 Frankfort, Kentucky 40601

Dear Mr. Sharp:

The short time span that was allowed Region 13 to respond to the Region 17 Plan was not adequate. However, we know that you are under a deadline, so we will do the best we can to respond. We do have some suggestions regarding the layout of the plan. The following would be helpful when others are looking at your plan: 1) number the pages of the plan; 2) include a map that shows the boundaries of the counties and the State Police Regions; and 3) include an alphabetical listing of the counties indicating the frequencies allocated to each county.

Upon reviewing your plan it became apparent that many of your frequency assignments will pose interference problems to the Region 13 area. We cannot concur with these conflicts and due to the fact that our plan is already approved and on file with the FCC, we suggest that you request another frequency sort. If this is not possible we will concur with your plan if the following changes are made. Delete the following channel(s) from the allocation to the following counties:

<u>County</u>	<u>Channel(s)</u>
Christian	608, 763, 799, 820
Crittenden	803
Davies	717
Graves	804
Henderson	642
Hickman	679, 719
Hopkins	614
Marshall	613, 615, 806
McCracken	727, 808
Trigg	644
Union	684
Region 1	721, 801
Region 2	692

Mr. Jack Y. Sharp
 January 20, 1993

Page 2

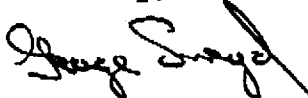
In addition to the channels listed above, we have concerns with the assignments listed below. We would agree to these assignments provided a provision is added to your plan stating that these channels would not be used in the listed county without the written concurrence of Region 13.

<u>County</u>	<u>Channel(s)</u>
Butler	814
Caldwell	661
Callaway	641, 796
Carlisle	643, 681
Christian	610
Davies	797, 818
Fulton	774
Hancock	679
Henderson	622, 719
Muhlenburg	643, 681
Ohio	645
Webster	686
Region 1	623
Region 3	794
Region 16	607

Except for the items described above, Region 13 has no objection to the Region 17 Plan. The Region 13 RCRC is more than willing to work with Region 17 to resolve mutual problems/concerns.

If I can be of further assistance, please contact me at 217/782-7345.

Sincerely,



George Sneyd
 Chairman
 Illinois FCC Region 13

GS:vp

cc: Clarence Peacher
 Stuart Marsh
 Nelda Raifsteck
 Gary Cochran
 Lambert Fleck
 Greg Abbott