

**APPENDIX A 1 (Continued)**

ZALL ZDOT

All Stations Oklahoma  
Oklahoma Department of Transportation

Special Attention to Region 34, Public Safety Communications Planning committee (FCC Docket Item 97-112) Meeting

Chairman, Oklahoma (Region 34)  
Captain Gary Adams  
Oklahoma Highway Patrol  
405/425-2019

Below is a list of dates for all regular meetings, which will be held at the Robert R. Lester Training Center, 3600 Martin Luther King Avenue, Oklahoma City, Oklahoma 10:00 A.M. and an agenda for the meeting of February 23, 1989.

**OKLAHOMA (REGION 34) PUBLIC SAFETY  
RADIO COMMUNICATIONS PLANNING COMMITTEE**

**MEETING SCHEDULE**

<b>DATE</b>	<b>DAY</b>	<b>CLASSROOM</b>
February 23, 1989	Thursday	Conference Room
March 23, 1989	Thursday	Classroom C
April 27, 1989	Thursday	Classroom C
May 25, 1989	Thursday	Classroom C
June 22, 1989	Thursday	Classroom C
July 27, 1989	Thursday	Classroom C
August 24, 1989	Thursday	Classroom C
September 28, 1989	Thursday	Classroom C
October 26, 1989	Thursday	Classroom C
<b>NO MEETING SCHEDULED FOR NOVEMBER DUE TO HOLIDAY ON FOURTH THURSDAY</b>		
December 28, 1989	Thursday	Classroom C

Please attempt to contact all public safety entities in your county of these meetings.

If you have any questions concerning these meetings, please feel free to contact me at 405/425-2019.

Authority: Captain Gary Adams

**APPENDIX A 1 (Continued)**

February 14, 1989

Dear Civil Defense Director:

Enclosed is a list of dates for all regular meetings, which will be held at the Robert R. Lester Training Center, 3600 Martin Luther King Avenue, Oklahoma City, Oklahoma 10:00 a.m. and an agenda for the meeting of February 23, 1989.

Please attempt to contact all public safety entities in your county of these meetings.

If you have any questions concerning these meetings, please fee free to contact me at 405/425-2019.

Sincerely,

GARY ADAMS  
Region 34 Chairman

GA/dh  
Attachments

**APPENDIX A 1 (Continued)**

**OKLAHOMA (REGION 34) PUBLIC SAFETY  
RADIO COMMUNICATIONS PLANNING COMMITTEE**

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Authority: Captain Gary Adams #9

NOTE: Following three (3) pages contain a listing of all persons that were mailed the above letter, notifying them of the meeting schedule.

## APPENDIX A 1 (Continued)

Director  
Adair County CD  
Route 1, Box 9  
Bunch, OK 74931  
918-775-5490

Director  
Beckham County CD  
Box 149  
Sayre, OK 73662  
405-928-3669

Director  
Caddo County CD  
Route 2, Box 27C  
Anadarko, OK 73005  
405-247-3871

Director  
Cherokee County CD  
111 South Cherokee  
Tahlequah, OK 74464  
918-456-2894

Director  
Cleveland County CD  
203 South Jones  
Norman, OK 73069  
405-321-8600

Director  
Cotton County CD  
Box 650  
Temple, OK 73568  
405-342-5120

Director  
Custer County CD  
P. O. Box 961  
Clinton, OK 73601  
405-323-1363

Director  
Ellis County CD  
P. O. Box 962  
Shattuck, OK 73858  
405-938-2276

Director  
Grady County CD  
P. O. Box 339  
Chickasha, OK 73023  
405-222-2339

Director  
Harmon County CD  
101 East Chestnut  
Hollis, OK 73550  
405-688-2619

Director  
Alfalfa County CD  
Route 1, Box 99  
Byron, OK 73723  
405-474-2601

Director  
Blaine County CD  
211 East Main  
Watonga, OK 73772  
405-623-7234

Director  
Canadian County CD  
P. O. Drawer 700  
El Reno, OK 73036  
405-232-8124

Director  
Choctaw County CD  
Route 2, Box 960  
Hugo, OK 74743  
405-326-5418

Director  
Coal County CD  
1 South Main  
Coalgate, OK 74538  
405-927-2242

Director  
Craig County CD  
Box 886  
Vinita, OK 74301  
918-256-3030

Director  
Delaware County CD  
Route 4, Box 453  
Grove, OK 74344  
918-786-4336

Director  
Garfield County CD  
P. O. Box 1483  
Enid, OK 73701  
405-234-0427

Director  
Grant County CD  
219 North 1st  
Medford, OK 73759  
405-395-2356

Director  
Harper County CD  
P. O. Box 740  
Buffalo, OK 73834  
405-735-2030

Director  
Atoka County CD  
Box 603  
Atoka, OK 74525  
405-889-3206

Director  
Bryan County CD  
120 South Fifth  
Durant, OK 74701  
405-924-3661

Director  
Carter County CD  
P. O. Box 249  
Ardmore, OK 73401  
405-223-4453

Director  
Cimarron County CD  
P. O. Box 168  
Boise City, OK 73933  
405-544-3371

Director  
Comanche County CD  
County Courthouse  
Lawton OK 73501  
405-355-0535

Director  
Creek County CD  
93 Frankoma Road  
Sapulpa, OK 74066  
918-224-2829

Director  
Dewey County CD  
P. O. Box 146  
Taloga, OK 73667  
405-328-5558

Director  
Garvin County CD  
Box 401  
Pauls Valley, OK 73075  
405-238-3323

Director  
Greer County CD  
Box 295  
Granite, OK 73547  
405-535-2116

Director  
Haskell County CD  
202 East Main  
Stigler, OK 74462  
918-967-4352

## APPENDIX A 1 (Continued)

Director  
Hughes County CD  
609 North Kelker  
Holdenville, OK 74848  
405-379-3321

Director  
Johnston County CD  
309 West 9th  
Tishomingo, OK 73460  
405-371-2691

Director  
Kiowa County CD  
Box 424  
Hobart, OK 73651  
405-726-3285

Director  
Lincoln County CD  
Drawer 576  
Chandler, OK 74834  
405-258-1285

Director  
McClain County CD  
708 West Madison  
Purcell, OK 73080  
405-527-5723

Director  
Major County CD  
500 East Broadway  
Fairview, OK 73737  
405-227-4471

Director  
Murray County CD  
1615 Elm  
Sulphur, OK 73086  
405-622-3170

Director  
Nowata County CD  
803 Main  
Delaware, OK 74027  
918-273-1620

Director  
Okmulgee County CD  
123 East 4th  
Okmulgee, OK 74447  
918-756-3265

Director  
Pawnee County CD  
Box 202  
Ralston, OK 74650  
918-738-4229

Director  
Jackson County CD  
209 North Hudson  
Altus, OK 73521  
405-482-3456

Director  
Kay County CD  
118 West 7th  
Newkirk, OK 74647  
405-362-3230

Director  
Latimer County CD  
109 ½ North Central  
Wilburton, OK 74578  
918-465-3582

Director  
Logan County CD  
P. O. Box 908  
Guthrie, OK 73044  
405-282-0494

Director  
McCurtain County CD  
614 South Central  
Idabel, OK 74745  
405-286-3373

Director  
Marshall County CD  
Start Rt. A, Box 57  
Kingston, OK 73439  
405-564-3805

Director  
Muskogee County CD  
P. O. Box 2274  
Muskogee, OK 74401  
918-682-2551

Director  
Okfuskee County CD  
315 South 4th St.  
Okemah, OK 74859  
918-623-0190

Director  
Osage County CD  
Box 431  
Pawhuska, OK 74056  
918-287-3316

Director  
Payne County CD  
P. O. Box 1748  
Stillwater, OK 74076  
405-372-7484

Director  
Jefferson County CD  
629 East Florida  
Waurika, OK 74537  
405-228-2868

Director  
Kingfisher County CD  
Box 525  
Kingfisher, OK 73750  
405-375-5662

Director  
LeFlore County CD  
Route 1, Box 3010  
Talihina, OK 74571  
918-647-3267

Director  
Love County CD  
305 S. E. Cherokee  
Marietta, OK 73448  
405-276-5479

Director  
McIntosh County CD  
Route 1, West of City  
Eufaula, OK 74432  
918-689-2387

Director  
Mayes County CD  
34 North Adair  
Pryor, OK 74361  
918-825-4650

Director  
Noble County CD  
215 East Tower  
Perry, OK 73077  
405-336-2203

Director  
Oklahoma County CD  
119 Court Building  
Oklahoma City, OK 73102  
405-278-1360

Director  
Ottawa County CD  
510 C St. Northwest  
Miami, OK 74354  
918-542-2512

Director  
Pittsburg County CD  
1210 North West St.  
McAlester, OK 74501  
918-423-5655

## APPENDIX A 1 (Continued)

Director  
Pontotoc County CD  
City Hall  
Ada, OK 74820  
405-436-8055

Director  
Roger Mills County CD  
Route 1, Box 24  
Cheyenne, OK 73628  
405-497-3761

Director  
Sequoyah County CD  
Route 3, Box 360  
Muldrow, OK 74948  
918-427-5665

Director  
Tillman County CD  
P. O. Box 399  
Frederick, OK 73542  
405-335-7549

Director  
Washington County CD  
1715 South Osage  
Bartlesville, OK 74003  
918-333-1400

Director  
Woodward County CD  
1600 Main  
Woodward, OK 73801  
405-256-3833

Director  
Pottawatomie County CD  
Route 6, Box 41  
Shawnee, OK 74801  
405-273-5272

Director  
Rogers County CD  
219 South Missouri, B-111  
Claremore, OK 74017  
918-341-4233

Director  
Stephens County CD  
1406 Hudson  
Duncan, OK 73533  
405-255-3411

Director  
Tulsa County CD  
200 Civic Center E-24  
Tulsa, OK 74103  
918-596-9899

Director  
Washita County CD  
219 West 4th  
Cordell, OK 73632  
405-832-3338

Director  
Pushmataha County CD  
133 N. W. "G"  
Antlers, OK 74523  
405-298-3182

Director  
Seminole County CD  
409 S Wewoka Avenue  
Wewoka, OK 74884  
405-257-3321

Director  
Texas County CD  
208 Hitch Boulevard  
Guymon, OK 73942  
405-338-2579

Director  
Wagoner County CD  
Box 103  
Coweta, OK 74429  
918-486-2179

Director  
Woods County CD  
415 4th  
Alva, OK 73717  
405-327-2317

## APPENDIX B 1

### POPULATION PROJECTIONS OF OKLAHOMA COUNTIES 1980 - 2010

(As of July 1 except as noted)

	CENSUS		PROJECTIONS				
	April 1 1980	ESTIMATE 1985	1990	1995	2000	2005	2010
STATE	3,025,290	3,306,200	3,309,700	3,417,600	3,509,800	3,588,100	3,664,200
ADAIR	18,575	19,700	19,850	20,800	21,700	22,200	22,700
ALFALFA	7,077	7,000	6,700	6,650	6,650	6,600	6,600
ATOKA	12,748	13,900	13,600	13,800	14,000	14,100	14,150
BEAVER	6,806	7,400	7,200	7,300	7,400	7,500	7,550
BECKHAM	19,243	22,800	20,500	21,000	21,550	22,000	22,550
BLAINE	13,443	13,900	13,400	13,800	14,250	14,500	14,850
BRYAN	30,535	32,900	33,300	33,900	34,450	35,000	35,600
CADDO	30,905	33,700	32,600	33,650	34,600	35,100	35,750
CANADIAN	56,452	71,100	75,900	81,250	86,650	91,400	95,650
CARTER	43,610	47,500	46,350	47,400	48,450	49,300	50,150
CHEROKEE	30,684	34,400	35,950	37,450	38,650	39,850	41,000
CHOCTAW	17,203	16,300	15,800	15,950	16,050	16,200	16,250
CIMARRON	3,648	4,000	3,850	3,900	3,900	3,850	3,800
CLEVELAND	133,173	158,700	166,000	176,800	186,700	196,600	205,800
COAL	6,041	6,000	5,800	5,850	5,950	5,950	6,000
COMANCHE	112,456	120,700	122,700	129,050	134,950	139,200	143,650
COTTON	7,338	7,100	6,850	6,950	7,050	7,150	7,200
CRAIG	15,014	15,400	14,750	14,900	15,000	15,200	15,350
CREEK	59,016	69,400	70,200	73,600	76,850	79,500	81,950
CUSTER	25,995	30,400	28,800	29,850	30,550	31,300	32,100
DELAWARE	23,946	27,900	28,250	28,750	29,100	29,200	29,300
DEWEY	5,922	6,300	6,100	6,100	6,150	6,150	6,200
ELLIS	5,596	5,900	5,450	5,450	5,450	5,500	5,550
GARFIELD	62,820	64,400	61,400	62,900	64,150	65,200	66,400
GARVIN	27,856	30,000	29,200	29,650	30,000	30,200	30,450
GRADY	39,490	45,000	45,000	47,150	49,200	51,100	53,000
GRANT	6,518	6,600	6,250	6,200	6,200	6,100	6,100
GREER	7,028	7,000	6,600	6,500	6,400	6,300	6,250
HARMON	4,519	4,500	4,200	4,150	4,150	4,100	4,050
HARPER	4,715	4,800	4,500	4,450	4,400	4,300	4,250
HASKELL	11,010	11,900	11,650	11,800	11,950	12,000	12,050
HUGHES	14,338	14,700	14,100	14,200	14,200	14,200	14,250
JACKSON	30,356	31,200	31,100	32,300	33,450	34,200	35,050
JEFFERSON	8,183	8,100	7,650	7,650	7,700	7,750	7,800
JOHNSTON	10,356	10,900	10,750	10,950	11,150	11,350	11,550
KAY	49,852	52,800	51,850	52,700	53,400	53,950	54,550
KINGFISHER	14,187	16,100	15,450	16,050	16,650	17,100	17,600
KIOWA	12,711	12,700	12,150	12,250	12,400	12,450	12,550
LATIMER	9,840	10,400	10,550	10,850	11,100	11,250	11,450

**APPENDIX B 1 (Continued)**

**POPULATION PROJECTIONS OF OKLAHOMA COUNTIES  
1980 - 2010**

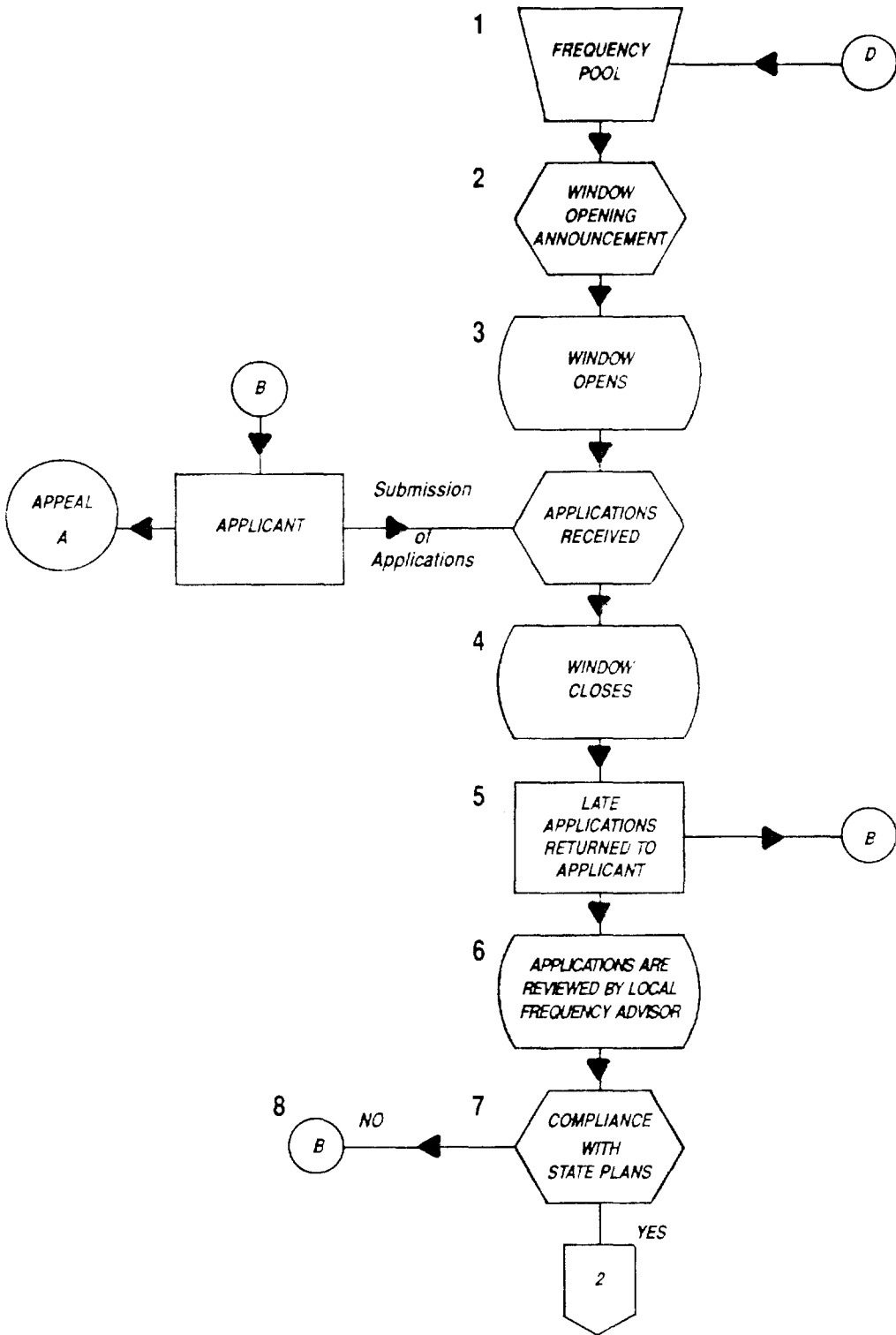
(As of July 1 except as noted)

	CENSUS		PROJECTIONS				
	April 1	ESTIMATE	1990	1995	2000	2005	2010
	1980	1985					
LeFLORE	40,698	44,000	44,350	44,850	45,200	45,550	45,600
LINCOLN	26,601	30,100	29,400	30,350	31,200	31,900	32,500
LOGAN	26,881	31,100	31,200	32,350	33,350	34,450	35,500
LOVE	7,469	8,000	7,850	8,000	8,150	8,300	8,400
McCLAIN	20,291	24,700	25,500	27,350	29,200	30,500	31,900
McCURTAIN	36,151	36,500	35,850	36,700	37,500	38,300	38,850
McINTOSH	15,562	17,500	17,850	18,000	18,050	18,000	18,000
MAJOR	8,772	9,300	9,000	9,150	9,250	9,350	9,450
MARSHALL	10,550	11,500	11,800	11,900	12,000	12,050	12,150
MAYES	32,261	35,200	35,000	36,200	37,350	38,300	39,150
MURRAY	12,147	13,100	12,700	12,850	13,050	13,150	13,200
MUSKOGEE	66,939	70,600	70,150	72,000	73,750	75,100	76,500
NOBLE	11,573	11,900	11,750	12,000	12,300	12,550	12,800
NOWATA	11,486	11,200	11,050	11,300	11,500	11,650	11,800
OKFUSKEE	11,125	11,700	11,350	11,600	11,800	11,900	12,050
OKLAHOMA	568,933	631,200	634,150	653,700	668,400	679,600	691,200
OKMULGEE	39,169	40,000	39,300	40,150	40,850	41,300	41,800
OSAGE	39,327	41,300	40,600	41,650	42,600	43,650	44,500
OTTAWA	32,870	34,100	33,550	34,250	34,650	35,050	35,400
PAWNEE	15,310	16,900	16,700	17,200	17,650	18,050	18,400
PAYNE	62,435	65,100	65,000	67,800	69,800	71,750	73,950
PITTSBURG	40,524	43,500	44,150	44,750	45,100	45,200	45,300
PONTOTOC	32,598	35,000	34,500	35,200	35,650	36,200	36,800
POTTAWATOMIE	55,239	62,200	62,400	64,700	66,750	68,850	70,850
PUSHMATAHA	11,773	12,300	12,100	12,400	12,650	12,800	12,950
ROGER MILLS	4,799	5,700	5,500	5,650	5,800	5,900	6,050
ROGERS	46,436	55,200	58,500	62,250	65,750	68,550	71,050
SEMINOLE	27,473	29,100	28,550	29,050	29,450	29,800	30,150
SEQUOYAH	30,749	34,200	36,000	37,150	38,100	38,700	39,200
STEPHENS	43,419	45,000	44,350	45,100	45,800	46,400	47,000
TEXAS	17,727	18,200	17,750	18,150	18,450	18,700	18,900
TILLMAN	12,398	11,600	11,000	11,100	11,200	11,150	11,100
TULSA	470,593	512,000	517,100	532,350	543,950	555,700	566,300
WAGONER	41,801	50,100	50,800	54,150	57,500	60,800	63,700
WASHINGTON	48,113	46,400	45,150	45,850	46,350	46,550	46,700
WASHITA	13,798	14,200	13,350	13,700	14,050	14,300	14,600
WOODS	10,923	10,600	10,000	9,800	9,450	9,050	8,750
WOODWARD	21,172	22,400	22,150	22,950	23,750	24,250	24,750

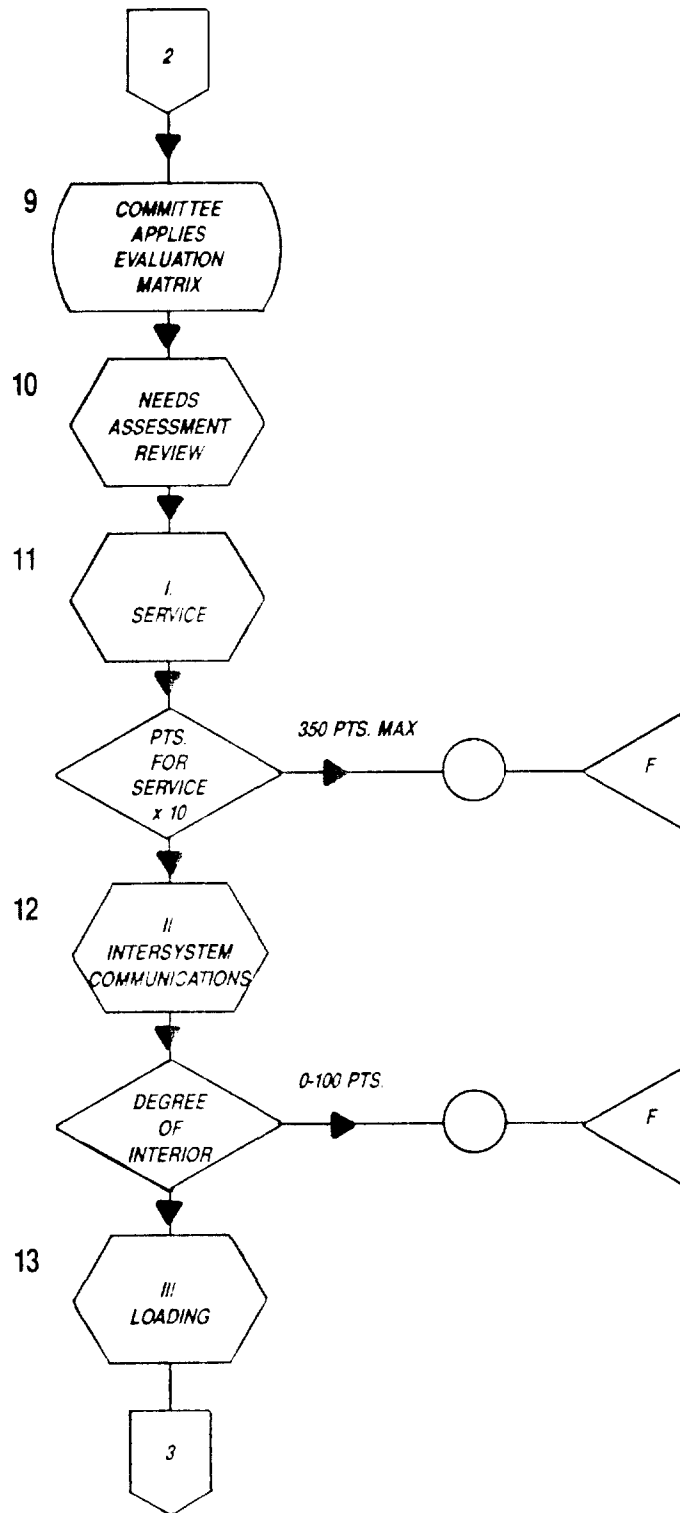
Source: "Population Projections for Oklahoma and Its Counties by Age and Sex, And For Its Cities 1980-2010". Prepared by: Demographic Research and Data Management, Research and Planning Division, Oklahoma Department of Commerce. Karen Selland and Mohammed Shahidullah, Principal Authors, November 1988.



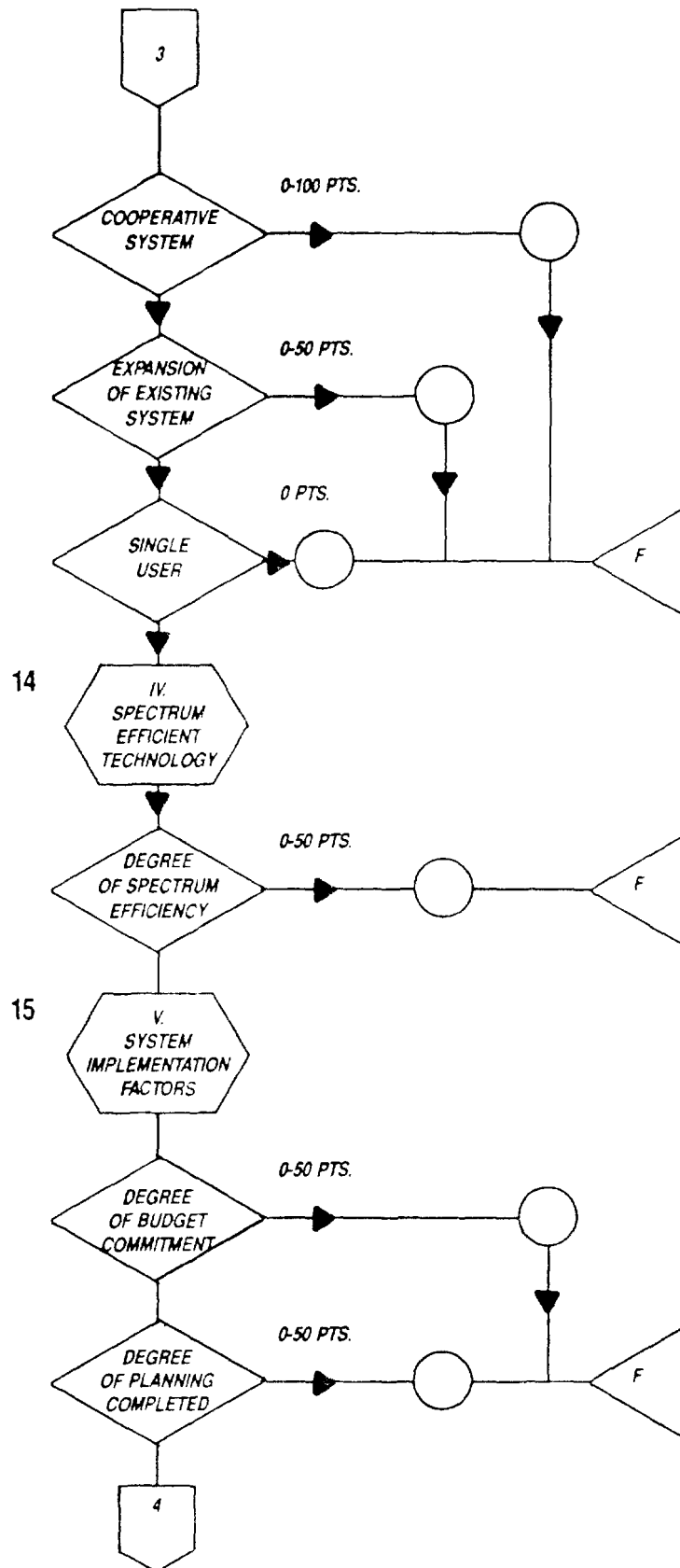
**APPENDIX C 1**  
**EVALUATION MATRIX**



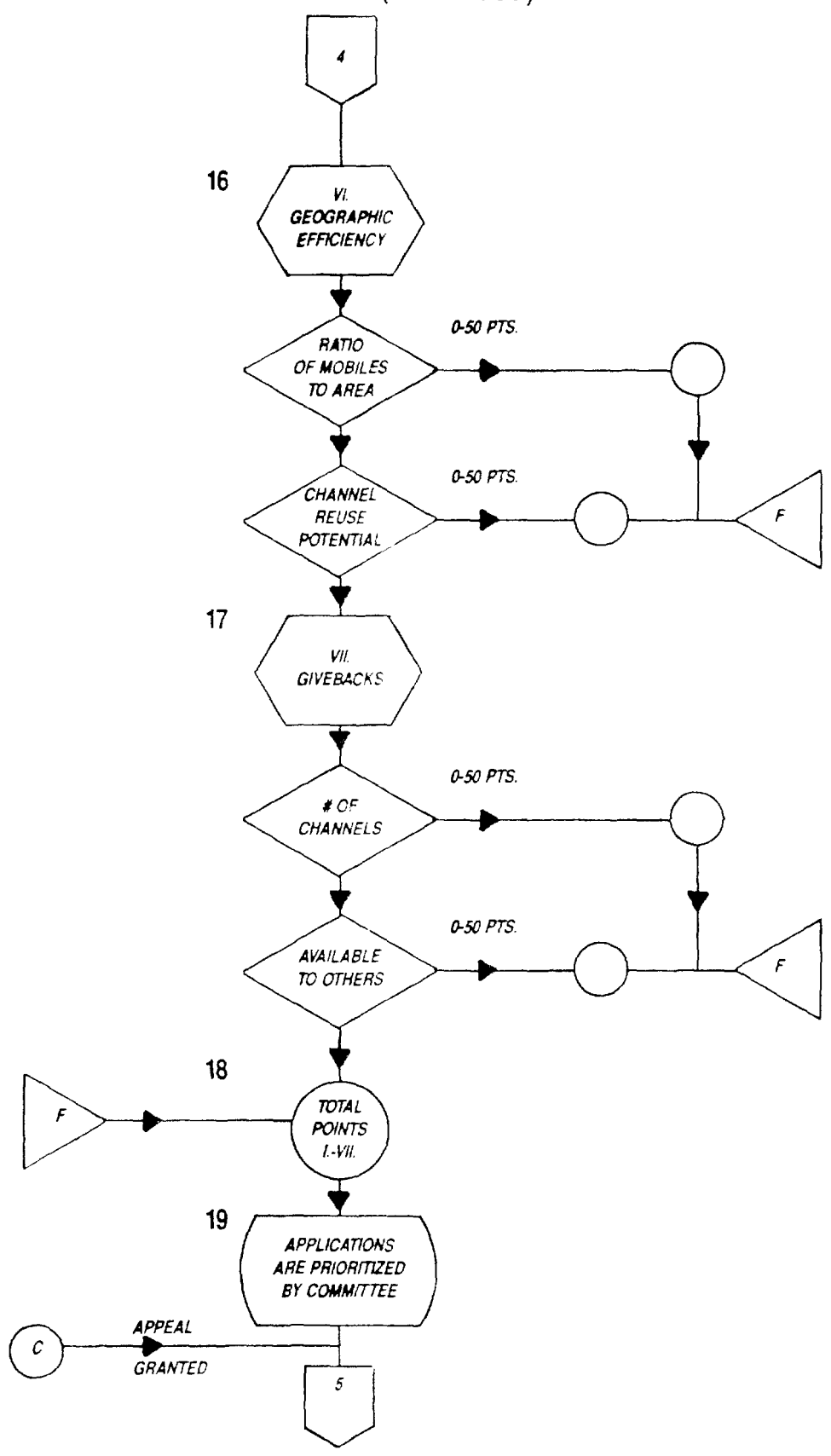
APPENDIX C 1 (Continued)



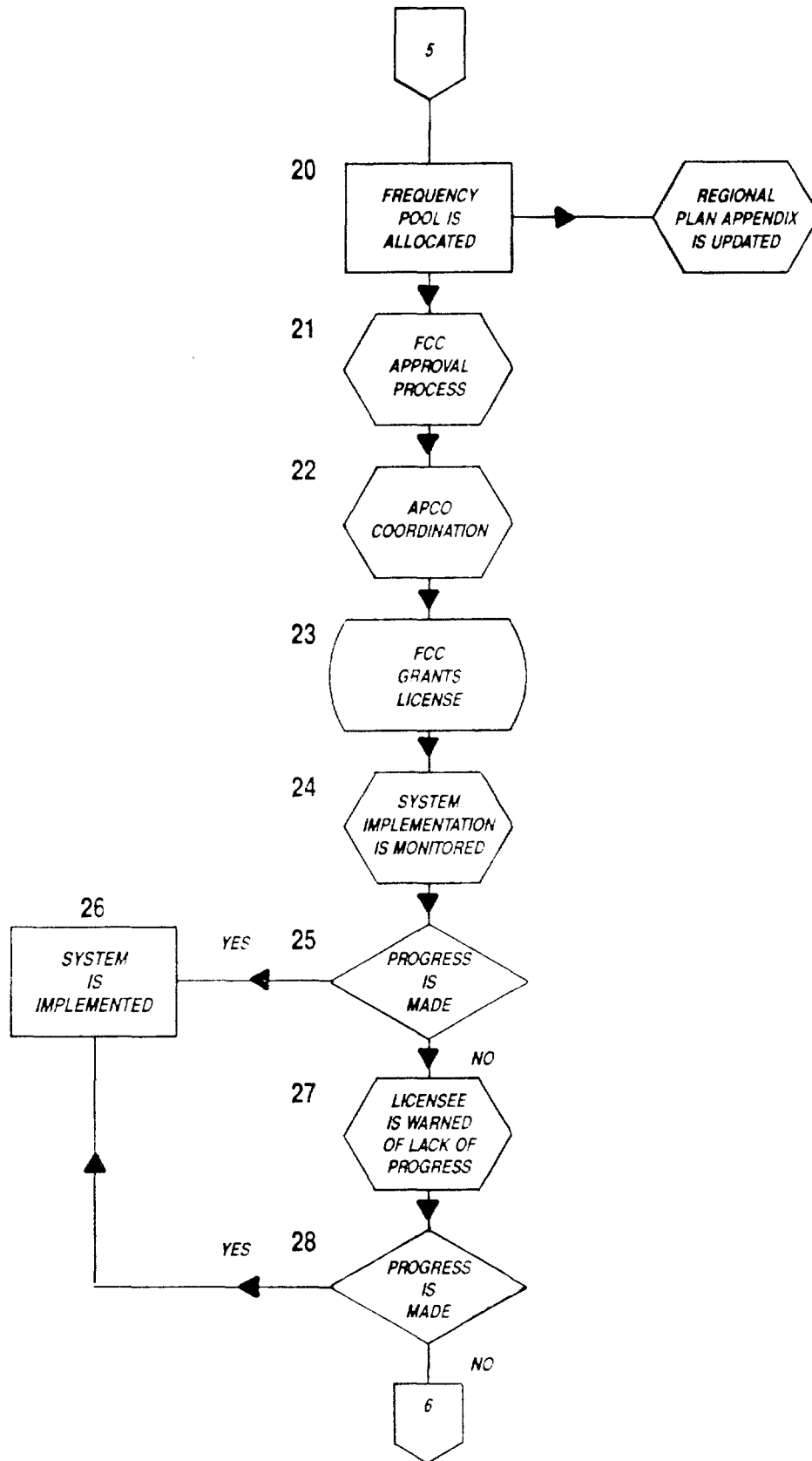
APPENDIX C 1 (Continued)



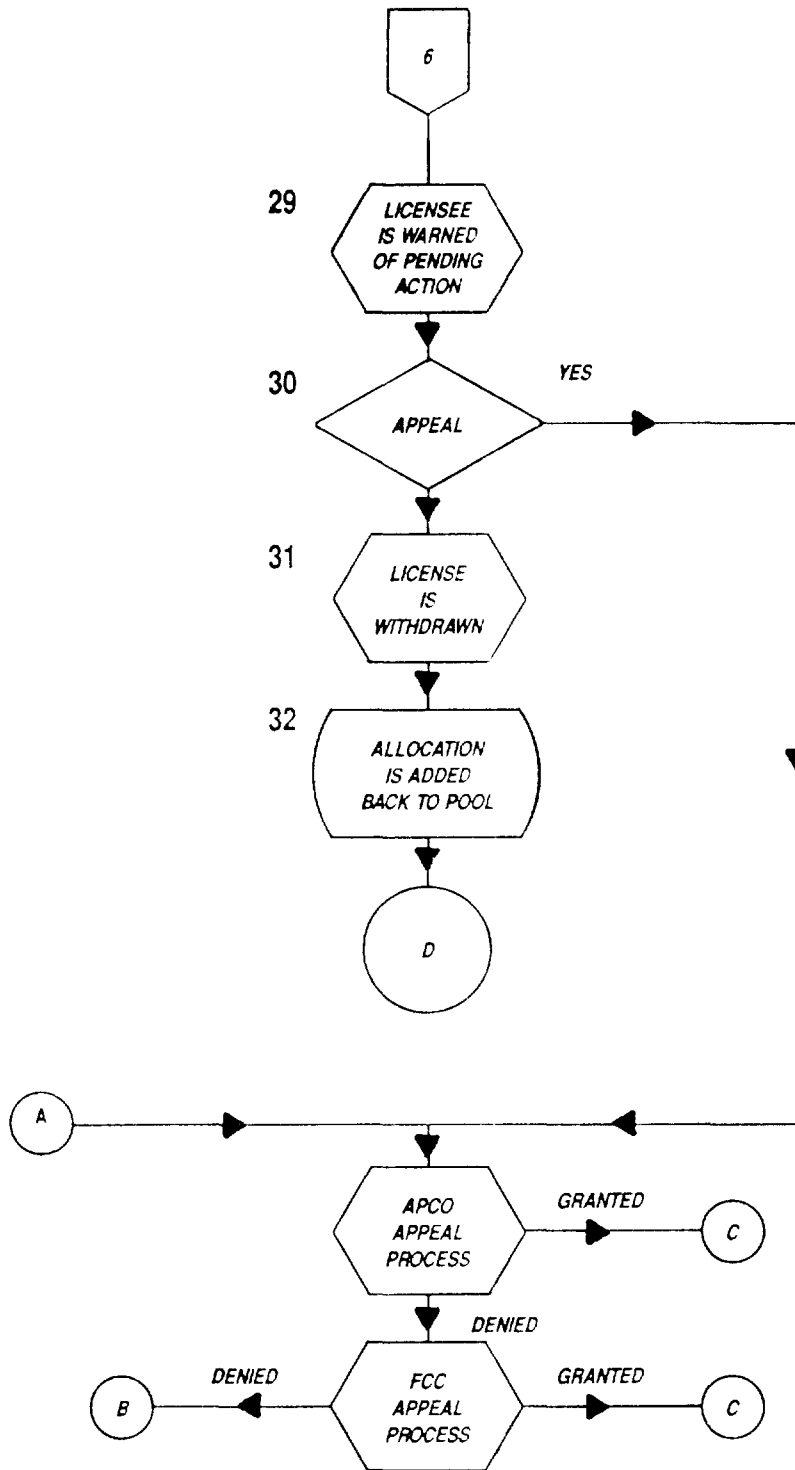
APPENDIX C 1 (Continued)



APPENDIX C 1 (Continued)



APPENDIX C 1 (Continued)



## APPENDIX C 2

VALUE RATING FOR TYPES OF USAGE	POINT VALUE
Local Government	
Transit Systems	15
Utility Operations	30
Administration	15
Maintenance	15
Security Patrols	15
Other Functions	15
Police	35
Fire	35
Highway	30
Forest Fire	30
Conservation	25
Medical Services	
Hospitals	10
Patient Transfer (vans, etc.)	6
Physicians	5
Emergency Medical Services (BLS and ALS)	35
Handicapped Transportation (vans, etc.)	15
Veterinarians	5
Disaster Relief Organizations	15
School Buses	
Private Under Contract	5
School District Operated	5
Included in an approved Emergency Management Evacuation Plan	15
Beach Patrols	5
Isolated Areas	5
Comm. Standby Facilities	5
Repair of Comm. Facilities	5

**APPENDIX D 1**  
**TABULATED DATA FROM CAREY PROPAGATION CURVES**  
**UHF F(50.50) dBu/kW ERP**

<b>RADIUS</b>	<b>HEIGHT IN FEET</b>			
	<b>MILES</b>	<b>100</b>	<b>200</b>	<b>500</b>
5	60.8	66.0	72.9	79.0
6	56.9	61.7	68.7	74.6
7	53.4	58.2	65.1	71.0
8	50.2	55.1	62.0	68.0
9	47.8	52.4	59.0	65.4
10	44.8	49.9	57.0	63.1
11	42.4	47.7	54.9	60.9
12	40.2	45.6	52.9	59.0
13	38.2	43.7	51.1	57.2
14	36.3	41.9	49.5	55.4
15	34.6	40.1	47.9	53.8
16	33.0	38.5	46.3	52.2
17	31.5	37.0	44.9	50.7
18	30.0	35.6	43.5	49.2
19	28.7	34.3	42.1	47.9
20	27.5	33.0	40.8	46.5
21	26.4	31.7	39.5	45.3
22	25.3	30.6	38.3	44.1
23	24.3	29.5	37.1	42.9
24	23.3	28.4	35.9	41.8
25	22.4	27.4	34.8	40.7
26	21.5	26.4	33.8	39.7
27	20.7	25.4	32.7	38.7
28	19.9	24.5	31.7	37.7
29	19.1	23.6	30.7	36.8
30	18.4	22.7	29.8	35.9
31	17.6	21.8	28.9	35.0
32	16.9	21.0	28.0	34.1



**APPENDIX D 1 (Continued)**

**TABULATED DATA FROM CAREY PROPAGATION CURVES**

**UHF F(50.50) dBu/kW ERP**

<b>RADIUS</b>	<b>HEIGHT IN FEET</b>			
	<b>MILES</b>	<b>100</b>	<b>200</b>	<b>500</b>
33	16.2	20.1	27.1	33.2
34	15.6	19.3	26.3	32.4
35	14.9	18.6	25.5	31.5
36	14.3	17.8	24.6	30.7
37	13.7	17.1	23.8	29.9
38	13.0	16.4	23.0	29.1
39	12.4	15.7	22.3	28.3
40	11.8	15.0	21.5	27.6
41	11.2	14.3	20.7	26.8
42	10.6	13.7	20.0	26.0
43	10.1	13.1	19.2	25.3
44	9.5	12.5	18.5	24.5
45	8.9	11.9	17.8	23.8
46	8.4	11.3	17.0	23.1
47	7.9	10.7	16.3	22.3
48	7.3	10.1	15.6	21.6
49	6.8	9.5	15.0	20.9
50	6.3	8.9	14.3	20.2
51	5.8	8.4	13.6	19.5
52	5.3	7.8	13.0	18.8
53	4.9	7.3	12.4	18.1
54	4.4	6.8	11.8	17.5
55	4.0	6.2	11.2	16.8
56	3.6	5.7	10.6	16.1
57	3.2	5.2	10.0	15.5
58	2.8	4.8	9.5	14.9
59	2.4	4.3	9.0	14.3
60	2.0	3.9	8.4	13.7

**APPENDIX D 1 (Continued)**  
**TABULATED DATA FROM CAREY PROPAGATION CURVES**  
**UHF F(50.50) dBu/kW ERP**

<b>RADIUS</b>	<b>HEIGHT IN FEET</b>			
	<b><u>MILES</u></b>	<b><u>100</u></b>	<b><u>200</u></b>	<b><u>500</u></b>
61	1.7	3.5	7.9	13.1
62	1.3	3.1	7.4	12.5
63	1.0	2.7	6.9	12.0
64	0.7	2.3	6.4	11.4
65	0.3	1.9	6.0	10.9
66	0.0	1.6	5.5	10.3
67	-0.3	1.2	5.0	9.8
68	-0.7	0.9	4.5	9.3
69	-1.0	0.5	4.1	8.8
70	-1.4	0.2	3.7	8.3
71	-1.7	-0.2	3.2	7.8
72	-2.0	-0.5	2.8	7.3
73	-2.4	-0.9	2.4	6.9
74	-2.7	-1.2	2.0	6.4
75	-3.0	-1.5	1.7	6.0
76	-3.3	-1.9	1.3	5.6
77	-3.5	-2.1	0.9	5.3
78	-3.8	-2.4	0.5	4.8
79	-4.0	-2.7	0.1	4.4
80	-4.3	-3.1	-0.3	3.9

## APPENDIX D 2

### PROCEDURE FOR DETERMINING SERVICE AREA CONTOUR

1. Convert effective radiated power from watts to dBk using the formula:  
 $P(\text{dBk}) = (10 \times \log p(\text{Watts})) - 30$  (B-1)
2. SUBTRACT THIS NEGATIVE NUMBER (in other words, convert it to positive and add) from 41 dBu.
3. In the look-up tables, determine the two height columns that correspond most closely with your HAAT. (For example, if your HAAT is 300 feet, use the 200 and 500 columns.)
4. Interpolate between the listings under the two columns to determine where the figure arrived at in step 2 falls.
5. Read the radius mileage at the extreme left-hand column of the row.

### EXAMPLE

To determine the service area of a UHF base station with an ERP of 125 watts and an antenna height above average terrain of 400 feet:

$$P(\text{dBk}) = 10 \times \log (125) - 30$$

$$P(\text{dBk}) = 21 - 30$$

$$P(\text{dBk}) = -9$$

Subtracting:

$$F(\text{dBu}) = 41 - (-9)$$

$$F(\text{dBu}) = 50$$

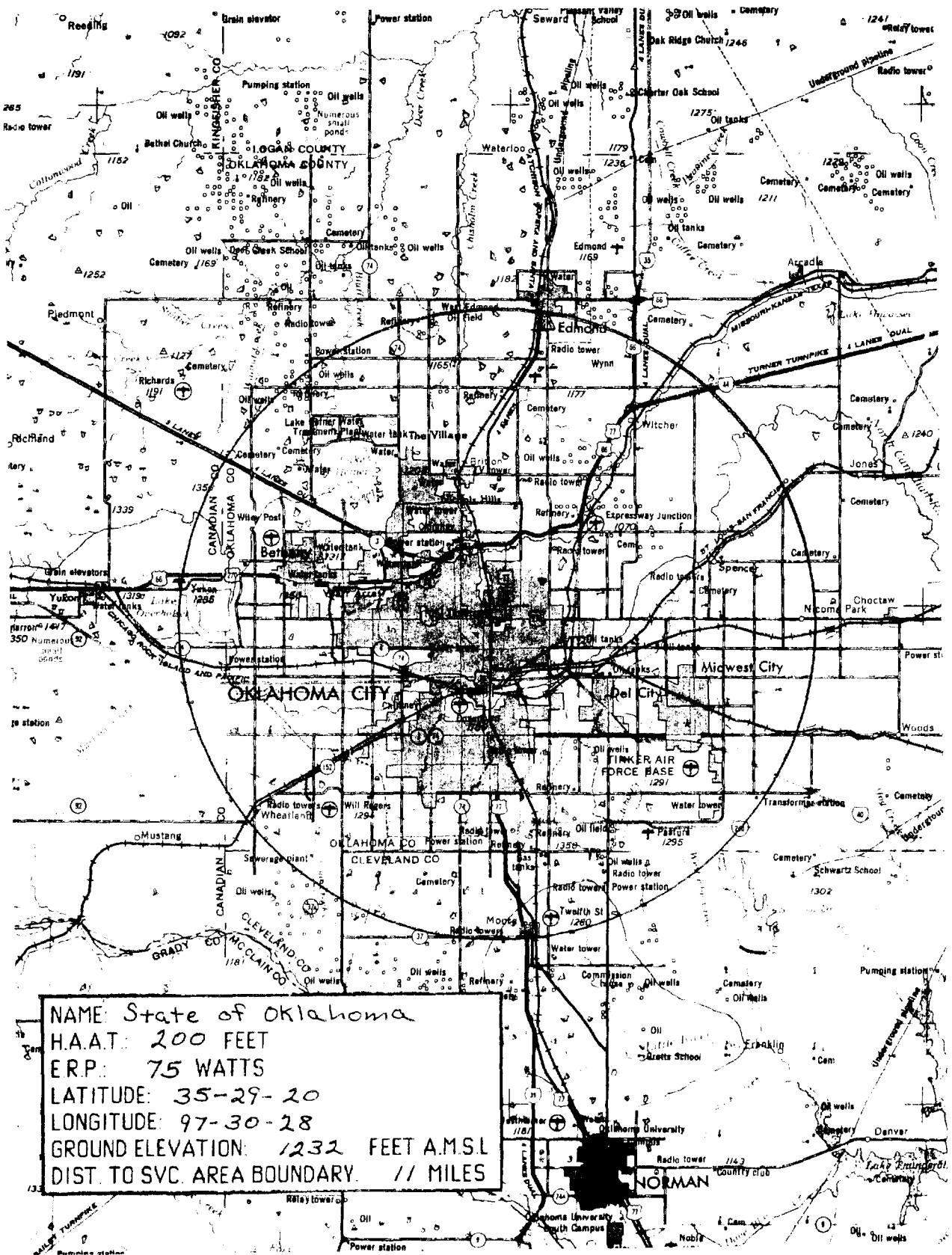
From the look-up table, 50 falls between 47.4 and 52.9 as 400 is interpolated between 300 and 500. Corresponding radius mileage is 12.

### EXAMPLE

#### UHF F(50.50) dBu/kW ERP

<u>RADIUS MILES</u>	<u>HEIGHT IN FEET</u>			
	<u>200</u>	<u>300</u>	<u>400</u>	<u>500</u>
11	47.7	49.5	51.3	54.9
12	45.6	47.4	49.2	52.9

### APPENDIX D 3



## APPENDIX D 4

### CO-CHANNEL INTERFERENCE PROCEDURE

1. Determine distance from the proposed station to the existing station.
2. If not previously known, determine service area boundary of existing station. (Method is detailed in Appendix D 2)
3. Find distance from proposed station to closest point of service area boundary of the existing station. (Subtract #2 from #1)
4. Based on mileage from #3 above, ERP and HAAT of the proposed station, consult look-up tables for dBu level at the service area boundary of the existing station.
5. Subtract this dBu level from 41. If the result is greater than 25, the proposed system will conform with the interference parameters. If the result is less than 25, the proposed system must be redesigned by lowering power, antenna height, or both until the 25 dB protection ratio is met.

NOTE: If the terrain between the two systems would provide additional protection that would not be evident from using the normalized HAAT, it will be permissible to calculate the HAAT of both existing and proposed systems along the radial line directly connecting the two stations. The resulting service area boundary of the existing station and the dBu level of the proposed station at that point would then be used to calculate the protection ratio.

## APPENDIX D 4 (Continued)

### EXAMPLE

	Station A (proposed)	Station X (existing)
ERP:	100W (-dBk)	200W (-7 dBk)
HAAT:	500 feet, AMSL	200 feet, AMSL
	Distance from A to X: 46 miles	

Service Area Boundary: Station A - 13 miles, Station X - 11 miles

46 miles - 11 miles = 35 miles, distance from proposed to service area boundary of existing station.

From look-up tables, dBu level at 35 miles from a station with an ERP of 100 watts and HAAT of 500 feet is:  $25.5 - 10 = 15.5$  dBu

Subtracting this amount from the defined 41 dBu level at the service area boundary of the existing station gives 25.5 dB of protection, 0.5 dB more than the minimum we require.

## APPENDIX E 1

### FREQUENCY POOL

#### F.C.C. CHANNEL ASSIGNMENTS

Channel Number	601 Mobile Frequency 821.0125 Mz	Base Frequency 866.0125 Mz	Mutual aid
Channel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	HARMON
Channel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	CLEVELAND
Channel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	PAWNEE
Channel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	LATIMER
Channel Number	602 Mobile Frequency 821.0375 Mz	Base Frequency 866.0375 Mz	CUSTER
Channel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	SEMINOLE
Channel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	WAGONER
Channel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	COTTON
Channel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	LOGAN
Channel Number	603 Mobile Frequency 821.0500 Mz	Base Frequency 866.0500 Mz	WOODWARD
Channel Number	604 Mobile Frequency 821.0625 Mz	Base Frequency 866.0625 Mz	CLEVELAND
Channel Number	604 Mobile Frequency 821.0625 Mz	Base Frequency 866.0625 Mz	GREER
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	WASHINGTON
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	COAL
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	OKFUSKEE
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	ALFALFA
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	NOBLE
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	STEPHENS
Channel Number	605 Mobile Frequency 821.0750 Mz	Base Frequency 866.0750 Mz	CIMARRON
Channel Number	606 Mobile Frequency 821.0875 Mz	Base Frequency 866.0875 Mz	CLEVELAND
Channel Number	606 Mobile Frequency 821.0875 Mz	Base Frequency 866.0875 Mz	BECKHAM
Channel Number	607 Mobile Frequency 821.1000 Mz	Base Frequency 866.1000 Mz	HUGHES
Channel Number	607 Mobile Frequency 821.1000 Mz	Base Frequency 866.1000 Mz	DEWEY
Channel Number	607 Mobile Frequency 821.1000 Mz	Base Frequency 866.1000 Mz	JACKSON

## APPENDIX E 1 (Continued)

### F.C.C. CHANNEL ASSIGNMENTS

Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	MARSHALL
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	McCLAIN
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	CHOCTAW
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	JEFFERSON
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	CREEK
Channel Number	608 Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	KINGFISHER
Channel Number	609 Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	McINTOSH
Channel Number	609 Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	KIOWA
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	MURRAY
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	CANADIAN
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	MAJOR
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	ROGER MILLS
Channel Number	610 Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	PUSHMATAHA
Channel Number	611 Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	POTTAWATOMIE
Channel Number	611 Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	MUSKOGEE
Channel Number	611 Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	TILLMAN
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	JOHNSTON
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	CANADIAN
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	ELLIS
Channel Number	612 Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	GARFIELD
Channel Number	613 Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	Unassigned
Channel Number	614 Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	TULSA
Channel Number	614 Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	OKLAHOMA
Channel Number	614 Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	BLAINE
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	OTTAWA
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	LOVE
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	PONTOTOC
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	PAYNE
Channel Number	615 Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	McCURTAIN



## APPENDIX E 1 (Continued)

### F.C.C. CHANNEL ASSIGNMENTS

Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	ATOKA
Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	OKLAHOMA
Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	OKMULGEE
Channel Number	616 Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	WASHITA
Channel Number	617 Mobile Frequency 821.2250 Mz	Base Frequency 866.2250 Mz	NOWATA
Channel Number	617 Mobile Frequency 821.2250 Mz	Base Frequency 866.2250 Mz	GARVIN
Channel Number	617 Mobile Frequency 821.2250 Mz	Base Frequency 866.2250 Mz	PAYNE
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	CHEROKEE
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	OKLAHOMA
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	BRYAN
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	KAY
Channel Number	618 Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	COMANCHE
Channel Number	619 Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	HARPER
Channel Number	619 Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	ROGERS
Channel Number	619 Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	CARTER
Channel Number	619 Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	TEXAS
Channel Number	620 Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	OKLAHOMA
Channel Number	620 Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	COMANCHE
Channel Number	620 Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	GARFIELD
Channel Number	620 Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	PITTSBURG
Channel Number	621 Mobile Frequency 821.2750 Mz	Base Frequency 866.2750 Mz	ROGERS
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	HARMON
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	CLEVELAND
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	PAWNEE
Channel Number	622 Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	CUSTER
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	SEMINOLE
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	WAGONER
Channel Number	623 Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	COTTON