

UNCLASSIFIED/CLEARED FOR PUBLIC RELEASE

**Department of Homeland Security (DHS)
Transition Plan for the 1755-1780 MHz Band**

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Certification regarding Classified and Sensitive Information:

I, David Campbell, certify that this transition plan, is cleared for release to the public and contains no classified or sensitive information.



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DHS Transition Plan for 1755-1780 MHz Band

Tab B: General Information

1	This Transition Plan includes pre-auction planning costs, as defined in Section O.2 of Annex O:	Yes	
	a. Total pre-auction planning costs:	\$42.982	
	b. The subtotal amount, if any, of pre-auction planning costs requested for pre-auction transfer:	\$42.982	
	c. The subtotal amount, if any, of pre-auction planning costs incurred after June 28, 2010, but before February 22, 2012:	\$2.984	
	d. This organization attests that:		
	[1] To the fullest extent possible, this transition plan provides for sharing and coordination of eligible frequencies with non-federal users, including reasonable accommodation for the use of eligible frequencies by non-federal users during the transition period.	Yes	
	[2] This transition plan provides for non-federal users to be able to use eligible frequencies during the transition period in geographic areas where this organization does not use such frequencies.	Yes	
	[3] During the transition period, this organization will make itself available for negotiation and discussion with non-federal users not later than 30 days after a written request.	Yes	
	[4] During the transition period, this organization will make available to a non-federal user with appropriate security clearances any classified information regarding the relocation process, on a need-to-know basis.	Yes	
	[5] (Only applicable if the amount in 1b above is greater than \$0.00.) Funds transferred before an auction likely allow for timely implementation of relocation or sharing, thereby increasing net expected auction proceeds by an amount not less than the time value of the amount of funds transferred.	Yes	
2	There is additional information required to be included in the Transition Plan that is not included in this document because it is classified information, as defined in Section O.7 of Annex O.	No	
3	There is additional information required to be included in the Transition Plan that is not included in this document because it is <u>sensitive</u> information, as defined in Section O.7 of Annex O.	No	
4	a. Name of Responsible Officer:	David Campbell	
	b. (Optional) Office:		
	c. (Optional) Telephone Number:		
	d. (Optional) E-mail:		
5	Total Transition Plan Cost (\$M):	\$490.142	

DHS Transition Plan for 1755-1780 MHz Band
 Tab C: Abstract

Serial Number	Center Freq/ Lower Band Limit (MHz)	Upper Band Limit (MHz) (if appl)	Emission Bandwidth (20 dB) (MHz)	Rx IF Bandwidth (3 dB) (MHz)	Bureau	System Use	System Name	Authorized Area of Operation	TX State	TX Latitude	TX Longitude	RX State	RX Latitude	RX Longitude	Sharing/ Relocation	Alternate Frequency Assignment	Transition Timeline (Months)
DHS 027456	1760.5		3.00	3.00	CBP	Microwave	CBP Microwave	Microwave Link	WA	474520N	1172335W	WA	473429N	1170451W	Vacate with Temp	7125-8500 MHz	36
DHS 028258	1765		20.00	20.00	ICE	Video	Video 1	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 028259	1790		20.00	20.00	ICE	Video	Video 1	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 029098	1790		22.00	22.00	ICE	Video	Video 1	DC	DC	xxxxxxx	xxxxxxx	DC	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 029099	1790		22.00	22.00	ICE	Video	Video 1	VA	VA	xxxxxxx	xxxxxxx	VA	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 035558	1781		6.00	6.00	ICE	Video	Video 1	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 038524	1775		6.00	6.00	S	Video	Video 2	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 038528	1775		17.00	17.00	S	Video	Video 2	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 038535	1775		6.00	6.00	S	Video	Video 2	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 040007	1770		6.00	6.00	FLTC	Video	Video 3	20	GA	311502N	0812834W	GA	311502N	0812834W	Vacate with Temp	2200-2290 MHz	36
DHS 040063	1780		6.00	6.00	FLTC	Video	Video 3	20	GA	311502N	0812834W	GA	311502N	0812834W	Vacate with Temp	2200-2290 MHz	36
DHS 070303	1759		6.00	6.00	ICE	Video	Video 1	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 070652	1773		6.00	6.00	ICE	Video	Video 1	USP	USP	xxxxxxx	xxxxxxx	USP	xxxxxxx	xxxxxxx	Vacate with Temp	2200-2290 MHz	42
DHS 125903	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255131N	0972553W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125904	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255147N	0972633W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125905	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255227N	0972651W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125906	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255259N	0972702W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125907	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255333N	0972738W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125908	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255326N	0972807W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125909	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255314N	0972944W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125910	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255331N	0972943W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125911	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255408N	0973011W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125912	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255320N	0973037W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125913	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255421N	0973124W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36

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Serial Number	Center Freq/ Lower Band Limit (MHz)	Upper Band Limit (MHz) (if appl)	Emission Bandwidth (20 dB) (MHz)	Rx IF Bandwidth (3 dB) (MHz)	Bureau	System Use	System Name	Authorized Area of Operation	TX State	TX Latitude	TX Longitude	RX State	RX Latitude	RX Longitude	Sharing/ Relocation	Alternate Frequency Assignment	Transition Timeline (Months)
DHS 125914	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255440N	0973120W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125915	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255507N	0973144W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125916	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255551N	0973201W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125917	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255606N	0973235W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125918	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255653N	0973338W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125919	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255652N	0973355W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125920	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255739N	0973436W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125921	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255750N	0973513W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125922	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255823N	0973602W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 125923	1780		5.00	5.00	CBP	Video	BROWNSVILLE STATION	TX	TX	255328N	0972835W	TX	260114N	0973025W	Vacate with Temp	1780-1850 MHz	36
DHS 142081	1757		3.75	3.75	CBP	Microwave	Microwave Link	NM	NM	315147N	1062926W	NM	314915N	1064159W	Vacate with Temp	7125-8500 MHz	36

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Tab D: Transition Timeline

Serial Number	Geographic Location	Timeline (Months after Transition Start)		
		Temporary Sharing	Indefinite Sharing	Vacate Assignment
DHS 027456	WA	12	NA	36
DHS 028258	USP	12	NA	See Tab I
DHS 028259	USP	12	NA	See Tab I
DHS 029098	DC	12	NA	See Tab I
DHS 029099	VA	12	NA	See Tab I
DHS 035558	USP	12	NA	See Tab I
DHS 038524	USP	12	NA	See Tab I
DHS 038528	USP	12	NA	See Tab I
DHS 038535	USP	12	NA	See Tab I
DHS 040007	GA	12	NA	36
DHS 040063	GA	12	NA	36
DHS 070303	USP	12	NA	See Tab I
DHS 070652	USP	12	NA	See Tab I
DHS 125903	TX	12	NA	36
DHS 125904	TX	12	NA	36
DHS 125905	TX	12	NA	36
DHS 125906	TX	12	NA	36
DHS 125907	TX	12	NA	36
DHS 125908	TX	12	NA	36
DHS 125909	TX	12	NA	36
DHS 125910	TX	12	NA	36
DHS 125911	TX	12	NA	36
DHS 125912	TX	12	NA	36
DHS 125913	TX	12	NA	36
DHS 125914	TX	12	NA	36
DHS 125915	TX	12	NA	36
DHS 125916	TX	12	NA	36
DHS 125917	TX	12	NA	36
DHS 125918	TX	12	NA	36
DHS 125919	TX	12	NA	36
DHS 125920	TX	12	NA	36
DHS 125921	TX	12	NA	36
DHS 125922	TX	12	NA	36
DHS 125923	TX	12	NA	36
DHS 142081	NM	12	NA	36

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 Tab E: Plan and Timeline for using Funds (SRF)

System Name	System ID	Total Pre-Auction Costs (\$M)	Pre-Auction Transfer Requested (\$M)	Pre-Auction Costs Incurred between 6-28-2010 and 2-22-2012	Equipment-Related Costs (\$M)	Deployment-Related Costs (\$M)	Total Cost for System (\$M)	Begin Expenditure of Funds	End Expenditure of Funds	Costs Associated with Expanded Capability	Description of Expanded Capability	Explanation/ Justification
HQ Project Management	DHS-PM	9.864	9.864	2.984	0.000	16.411	\$ 26.275	2/22/2015	9/30/2021	0	NA	DHS HQ project management/ oversight
Video 4 OIG	DHS-VS4	1.128	1.128	0.000	2.975	2.117	\$ 6.220	2/22/2015	2/21/2018	0	NA	Equipment for OIG to conduct internal investigations
CBP Microwave	DHS-M1	0.673	0.673	0.000	1.484	2.112	\$ 4.269	2/22/2015	2/21/2018	0	NA	Relocatd single TX RX pair in microwave back haul system
Video 1	DHS-VS1	16.367	16.367	0.000	206.314	43.562	\$ 266.243	2/22/2015	2/21/2020	\$14.3M	Commercial wired network connectivity for mesh devices to interface with current video management system. Provides for addiitoanl connectivity during transition to Mesh network.	Deployment of Major city law enforcement video surveillance system
Video 2	DHS-VS2	14.277	14.277	0	\$126.51	\$37.37	\$ 178.152	2/22/2015	2/21/2020	\$10.4M	Commercial wired network connectivity for mesh devices to interface with current video management system. Provides for addiitoanl connectivity during transition to Mesh network.	Deployment of Major city law enforcement video surveillance system
Video 3	DHS -VS3	0.000	0.000	0	\$2.46	1.121	\$ 3.576	2/22/2015	2/21/2018	0	NA	Obtain equipment used by Federal agencies for training purposes
Brownsville Station	DHS-VS5	0.673	0.673	0	\$2.63	2.112	\$ 5.410	2/22/2015	2/21/2018	0	NA	Reprogram video surveillance system

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Tab F: NTIA Interactions

	Interaction required with NTIA to implement this Transition Plan
1	Coordination is required to verify GMF data.
2	Interactions are required to determine the best option from various alternate frequency assignment choices.
3	Interactions are required to obtain formal approval of new frequency assignments prior to beginning of transition period.

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Tab G: Identification of Excluded Classified and Sensitive Information

Serial Number	Description of Classified or Sensitive Information	Reason for Exclusion	Reference
	None		

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 Tab H: Factors that could Impact Fulfillment of Transition Plan

	Factor	Impact on Fulfillment of Transition Plan
1	Funding	Pre-auction funds are provided for technological development of capabilities necessary to relocate into alternative frequency bands.
2	Alternate Assignments	Channel assignments for digital video specific channels in the 1675-1695 MHz, 1785-1850, and 2200-2290 MHz bands are granted and will diminish potential interference issues.
3	Frequency Coordination	Channel assignments are coordinated across the Federal law enforcement community to diminish the potential for interference with a Federal-wide band plan developed.
4	Technology Development	The necessary development of technologies and devices to support overall surveillance operation relocation will progress to align with transition schedule needs.
5	Regulatory Criteria	Regulatory criteria will support relocated operations in the alternate bands and policy or legislative changes will be made to ensure adequate priority for surveillance operations in the selected bands.
6	Federal agency Incumbent Support	In necessary, the incumbents will support interference testing to determine feasibility of co-existence and necessary equipment alterations, and they will support the relocation plan and equipment deployment as necessary to address interference issues. As operations move to other spectrum such as 2200-2290 MHz band there is a potential for interference with incumbent operations which may result in the need for testing of devices to determine means for co-existence. To support this testing the need may arise for agencies to provide equipment for testing at an various locations including independent lab such as ITS boulder. It is not envision that the incumbents would be required to share the testing cost beyond providing the equipment for testing.
7	Commercial Carrier Coordination	Commercial carriers will coordinate with the Department to minimize mutual interference prio to the department vacating the band as outlined in attachment I

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Tab I: Additional Information

The Department of Homeland Security (DHS) remains committed to supporting the President's Spectrum Initiative and has developed this plan as follow-on to the September 2011 report assessing of the Viability of Accommodating Wireless Broadband in the 1755-1850 MHz Band. As noted in the 2011 report, the Department and components use the spectrum being vacated for two primary missions, 1: video surveillance in support of Federal law enforcement operations at Immigration and Customs Enforcement, the US Secret Service, the DHS Office of Inspector General and the Federal Law Enforcement Training facility (training purposes only) and 2: microwave data links connecting remote Customs and Border protection offices.

For the video surveillance operations, the Department will utilize spectrum currently assigned in the 2200-2290 MHz, 4400-4940 MHz, and on a limited basis spectrum in the 1780-1850 MHz band. Utilization of existing spectrum in the 2200-2290 and 4400-4940 MHz bands currently shared by other federal law enforcement agencies will allow for increased interoperability of technologies. Operations requiring deep building penetration will be relocated to spectrum favorable to building penetration, e.g. 2200-2290 MHz, and operations with less stringent building penetration requirements will be shifted to the 4400-4940 MHz bands. The strategy of relocating to multiple bands aligns with operational needs and affords the opportunity to mitigate risks associated with relocating to a single candidate band. In addition relocating to spectrum where DHS and other law enforcement agencies currently operate will allow for increased sharing of equipment and technologies. Key to this strategy is the deployment of spectrally efficient digital mesh technologies that allow operations to fit within reduced overall spectrum. The use of digital mesh technologies provide for increased spectrum reuse with a reduced total spectral footprint and thus increase the number of potential uses within a given frequency channel. For the microwave data links, the Department will continue its migration of systems to the 7-8 GHz band. This approach allows for rapid integration into the systems that were migrated as part of the earlier 1710-1755 MHz exit.

The 2011 report the Department's estimate to vacate the 1755-1780 MHz portion of the 1755-1850 MHz band was ~\$564M. Since the time of the report DHS has worked closely with the Office of Management and Budget, the Department of Justice, the National Telecommunications and Information Administration in developing this plan and preparing for the exit of the 1755-1780 MHz band. As a result of the close working relationship, the Department's cost estimate has been reduced by ~\$74M, a substantial cost savings. To achieve this cost savings, the Department's strategy consolidates the management of the video operations migration to mesh technologies utilizing an integrated project team with representation from the affected entities, reducing duplication of project management functions. This approach takes into consideration the operational aspects of critical mission capabilities as we migrate to spectrum efficient technologies that are interoperable and sharable with other Federal law enforcement agencies. To successfully execute this plan the following distribution of funds is requested:

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Tab I: Additional Information

	Pre-Auction Costs Incurred between 6-28-2010 and 2-22-2012	Pre-Auction Transfer Requested (\$M)	Equipment and Deployment Related Costs (\$M)	Total
DHS HQ CIO	\$ 2,983,665	\$ 27,101,753	\$ 245,423,154	\$ 275,508,572
ICE HSI	\$ -	\$ 6,256,000	\$ 135,369,225	\$ 141,625,225
USSS TSD	\$ -	\$ 4,166,000	\$ 49,368,080	\$ 53,534,080
FLTC	\$ -	\$ -	\$ 3,576,051	\$ 3,576,051
DHS OIG	\$ -	\$ 1,128,000	\$ 5,092,051	\$ 6,220,051
CBP	\$ -	\$ 1,346,000	\$ 8,332,034	\$ 9,678,034
Total	\$ 2,983,665	\$ 39,997,753	\$ 447,160,594	\$ 490,142,012

The strategy allows the Department to make available the 1755-1780 MHz spectrum to commercial entities within five years of funding with a more rapid exit of spectrum in priority areas identified by the commercial carries in the CSMAC WG2 report. In addition, the strategy prepares the Department to respond rapidly when and if additional spectrum in the 1780-1850 MHz range is requested.

For the CBP assignments the following assignments are paired:

DHS 027456 DHS 027467; DHS 125903 DHS 125902; DHS 125904 DHS 125902; DHS 125905 DHS 125902; DHS 125906 DHS 125902; DHS 125907 DHS 125902; DHS 125908 DHS 125902; DHS 125909 DHS 125902; DHS 125910 DHS 125902; DHS 125911 DHS 125902; DHS 125912 DHS 125902; DHS 125913 DHS 125902; DHS 125914 DHS 125902; DHS 125915 DHS 125902; DHS 125916 DHS 125902; DHS 125917 DHS 125902; DHS 125918 DHS 125902; DHS 125919 DHS 125902; DHS 125920 DHS 125902; DHS 125921 DHS 125902; DHS 125922 DHS 125902; DHS 125923 DHS 125902; DHS 142081 DHS 142080

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Tab I: Additional Information

USP Area Time to Vacate

Ranking	Economic Area	Time to Vacate EA (Months)	Associated Major Economic Area
1	10 (NYC-Long Is. NY-NJ-CT-PA-MA)	30	2 (New York City)
2	160 (LA-Riverside-Orange Cnty CA)	30	44 (Los Angeles-San Diego)
3	64 (Chicago-Gary-Kenosha IL-IN-VI)	30	18 (Chicago)
4	131 (Houston-Galveston-Brazoria TX)	30	31 (Houston)
5	31 (Miami-Fort Lauderdale FL)	30	11 (Miami)
6	163 (San Fran.-Oakland-San Jose CA)	30	43 (San Francisco-Oakland-San Jose)
7	158 (Phoenix-Mesa AZ-NM)	30	40 (Phoenix)
8	127 (Dallas-Fort Worth TX-AR-OK)	30	32 (Dallas-Fort Worth)
9	12 (Phil.-Atl. City PA-NJ-DE-MD)	30	4 (Philadelphia)
10	161 (San Diego CA)	30	44 (Los Angeles-San Diego)
11	57 (Detroit-Ann Arbor-Flint MI)	30	16 (Detroit)
12	3 (Boston-Worcester MA-NH-RI-CT)	30	1 (Northeast)
12	3 (Boston-Worcester MA-NH-RI-CT)	30	1 (Northeast)
13	55 (Cleveland-Akron OH-PA)	30	15 (Cleveland)
14	30 (Orlando FL)	30	10 (Tampa-St. Petersburg-Orlando)
15	13 (Wash.-Balt. DC-MD-VA-WV-PA)	30	5 (Washington)
16	170 (Seattle-Tacoma-Bremerton WA)	30	46 (Seattle)
17	34 (Tampa-St. Petersburg FL)	30	10 (Tampa-St. Petersburg-Orlando)
18	49 (Cincinnati-Hamilton OH-KY-IN)	30	13 (Cincinnati-Dayton)
19	40 (Atlanta GA-AL-NC)	30	8 (Atlanta)
20	53 (Pittsburgh PA-WV)	30	12 (Pittsburgh)
21	134 (San Antonio TX)	36	38 (San Antonio)
22	96 (St. Louis MO-IL)	36	30 (St. Louis)
23	67 (Indianapolis IN-IL)	36	19 (Indianapolis)
24	23 (Charlotte-Gastonia NC-SC)	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
25	63 (Milwaukee-Racine WI)	36	17 (Milwaukee)
26	152 (Salt Lake City-Ogden UT-ID)	36	42 (Salt Lake City)
27	107 (Minneapolis-St. Paul MN-WI-IL)	36	20 (Minneapolis-St. Paul)
28	130 (Austin-San Marcos TX)	36	32 (Dallas-Fort Worth)
28	130 (Austin-San Marcos TX)	36	33 (Dallas-Fort Worth)

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Tab I: Additional Information

29	83	(New Orleans LA-MS)	36	27 (New Orleans-Baton Rouge)
30	19	(Raleigh-Durham-Chapel Hill N	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
31	141	(Denver-Boulder CO-KS-NE)	36	33 (Denver)
32	153	(Las Vegas NV-AZ-UT)	36	44 (Los Angeles-San Diego)
33	51	(Columbus OH)	36	14 (Columbus)
34	29	(Jacksonville FL-GA)	36	9 (Jacksonville)
35	162	(Fresno CA)	36	43 (San Francisco-Oakland-San Jose)
36	133	(McAllen-Edinburg-Mission TX	36	38 (San Antonio)
37	172	(Honolulu HI)	36	48 (Hawaii)
38	164	(Sacramento-Yolo CA)	36	43 (San Francisco-Oakland-San Jose)
39	125	(Oklahoma City OK)	36	37 (Oklahoma City)
40	73	(Memphis TN-AR-MS-KY)	36	26 (Memphis-Jackson)
41	70	(Louisville KY-IN)	36	23 (Louisville-Lexington-Evansville)
42	71	(Nashville TN-KY)	36	25 (Nashville)
43	99	(Kansas City MO-KS)	36	29 (Kansas City)
44	20	(Norfolk-Virginia Beach VA-NC	36	6 (Richmond)
45	167	(Portland-Salem OR-WA)	36	45 (Portland)
46	8	(Buffalo-Niagara Falls NY-PA)	36	3 (Buffalo)
47	78	(Birmingham AL)	36	24 (Birmingham)
48	174	(Puerto Rico-US Virgin Islands)	36	50 (Puerto Rico and U.S. Virgin Islands)
49	18	(Greensboro-Winston-Salem N	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
50	32	(Fort Myers-Cape Coral FL)	36	11 (Miami)
51	50	(Dayton-Springfield OH)	36	13 (Cincinnati-Dayton)
52	159	(Tucson AZ)	36	40 (Phoenix)
53	33	(Sarasota-Bradenton FL)	36	10 (Tampa-St. Petersburg-Orlando)
54	118	(Omaha NE-IA-MO)	36	34 (Omaha)
55	84	(Baton Rouge LA-MS)	36	27 (New Orleans-Baton Rouge)
56	15	(Richmond-Petersburg VA)	36	6 (Richmond)
57	41	(Greenville-Spartanburg SC-NC	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
58	7	(Rochester NY-PA)	36	2 (New York City)
59	157	(El Paso TX-NM)	36	39 (El Paso-Albuquerque)
60	124	(Tulsa OK-KS)	36	36 (Tulsa)
61	104	(Madison WI-IL-IA)	36	17 (Milwaukee)
62	150	(Boise City ID-OR)	36	42 (Salt Lake City)

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Tab I: Additional Information

63	24	(Columbia SC)	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
64	90	(Little Rock AR)	36	28 (Little Rock)
65	26	(Charleston-North Charleston S	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
66	44	(Knoxville TN)	36	22 (Knoxville)
67	122	(Wichita KS-OK)	36	35 (Wichita)
68	119	(Lincoln NE)	36	34 (Omaha)
69	156	(Albuquerque NM-AZ)	36	39 (El Paso-Albuquerque)
70	6	(Syracuse NY-PA)	36	2 (New York City)
70	6	(Syracuse NY-PA)	36	3 (New York City)
71	56	(Toledo OH)	36	16 (Detroit)
72	100	(Des Moines IA-IL-MO)	36	21 (Des Moines-Quad Cities)
73	25	(Wilmington NC-SC)	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
74	77	(Jackson MS-AL-LA)	36	26 (Memphis-Jackson)
75	81	(Pensacola FL)	36	27 (New Orleans-Baton Rouge)
76	5	(Albany-Schenectady-Troy NY)	36	2 (New York City)
77	151	(Reno NV-CA)	36	43 (San Francisco-Oakland-San Jose)
78	59	(Green Bay WI-MI)	36	17 (Milwaukee)
79	62	(Grand Rapids-Muskegon MI)	36	16 (Detroit)
80	85	(Lafayette LA)	36	27 (New Orleans-Baton Rouge)
81	80	(Mobile AL)	36	27 (New Orleans-Baton Rouge)
82	166	(Eugene-Springfield OR-CA)	36	45 (Portland)
83	97	(Springfield IL-MO)	36	18 (Chicago)
84	132	(Corpus Christi TX)	36	38 (San Antonio)
85	21	(Greenville NC)	36	7 (Charlotte-Greensboro-Greenville-Raleigh)
86	68	(Champaign-Urbana IL)	36	18 (Chicago)
87	11	(Harrisburg-Lebanon-Carlisle P	36	4 (Philadelphia)
88	94	(Springfield MO)	36	30 (St. Louis)
89	35	(Tallahassee FL-GA)	36	9 (Jacksonville)
90	92	(Fayetteville AR-MO-OK)	36	28 (Little Rock)
91	28	(Savannah GA-SC)	36	8 (Atlanta)
92	98	(Columbia MO)	36	30 (St. Louis)
93	74	(Huntsville AL-TN)	36	24 (Birmingham)
94	66	(Fort Wayne IN)	36	18 (Chicago)
95	82	(Biloxi-Gulfport-Pascagoula M\$	36	27 (New Orleans-Baton Rouge)

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Tab I: Additional Information

96	140	(Pueblo CO-NM)	36	33 (Denver)
97	43	(Chattanooga TN-GA)	42	8 (Atlanta)
98	88	(Shreveport-Bossier City LA-AR)	42	32 (Dallas-Fort Worth)
99	65	(Elkhart-Goshen IN-MI)	42	18 (Chicago)
100	69	(Evansville-Henderson IN-KY-IL)	42	23 (Louisville-Lexington-Evansville)
101	2	(Portland ME)	42	1 (Northeast)
102	4	(Burlington VT-NY)	42	2 (New York City)
103	22	(Fayetteville NC)	42	7 (Charlotte-Greensboro-Greenville-Raleigh)
104	87	(Beaumont-Port Arthur TX)	42	31 (Houston)
105	60	(Appleton-Oshkosh-Neenah WI)	42	17 (Milwaukee)
106	39	(Columbus GA-AL)	42	8 (Atlanta)
107	93	(Joplin MO-KS-OK)	42	29 (Kansas City)
108	139	(Santa Fe NM)	42	39 (El Paso-Albuquerque)
109	147	(Spokane WA-ID)	42	41 (Spokane-Billings)
110	135	(Odessa-Midland TX)	42	32 (Dallas-Fort Worth)
111	89	(Monroe LA)	42	32 (Dallas-Fort Worth)
112	27	(Augusta-Aiken GA-SC)	42	8 (Atlanta)
113	101	(Peoria-Pekin IL)	42	18 (Chicago)
114	79	(Montgomery AL)	42	24 (Birmingham)
115	42	(Asheville NC)	42	7 (Charlotte-Greensboro-Greenville-Raleigh)
116	47	(Lexington KY-TN-VA-WV)	42	23 (Louisville-Lexington-Evansville)
117	46	(Hickory-Morganton NC-TN)	42	7 (Charlotte-Greensboro-Greenville-Raleigh)
118	136	(Hobbs NM-TX)	42	39 (El Paso-Albuquerque)
119	154	(Flagstaff AZ-UT)	42	40 (Phoenix)
120	137	(Lubbock TX)	42	32 (Dallas-Fort Worth)
121	54	(Erie PA)	42	15 (Cleveland)
122	14	(Salisbury MD-DE-VA)	42	5 (Washington)
123	38	(Macon GA)	42	8 (Atlanta)
124	86	(Lake Charles LA)	42	31 (Houston)
125	129	(San Angelo TX)	42	32 (Dallas-Fort Worth)
126	148	(Idaho Falls ID-WY)	42	42 (Salt Lake City)
127	1	(Bangor ME)	42	1 (Northeast)
128	123	(Topeka KS)	42	29 (Kansas City)
129	103	(Cedar Rapids IA)	42	21 (Des Moines-Quad Cities)

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130	106	(Rochester MN-IA-WI)	42	20 (Minneapolis-St. Paul)
131	105	(La Crosse WI-MN)	42	17 (Milwaukee)
132	138	(Amarillo TX-NM)	42	32 (Dallas-Fort Worth)
133	165	(Redding CA-OR)	42	43 (San Francisco-Oakland-San Jose)
134	45	(Johnson City-Kingsport TN-VA)	42	22 (Knoxville)
135	36	(Dothan AL-FL-GA)	42	24 (Birmingham)
136	9	(State College PA)	42	12 (Pittsburgh)
137	37	(Albany GA)	42	8 (Atlanta)
138	17	(Roanoke VA-NC-WV)	42	6 (Richmond)
139	169	(Richland-Kennewick-Pasco WA)	42	46 (Seattle)
140	75	(Tupelo MS-AL-TN)	42	26 (Memphis-Jackson)
141	61	(Traverse City MI)	42	16 (Detroit)
142	91	(Fort Smith AR-OK)	42	28 (Little Rock)
143	109	(Duluth-Superior MN-WI)	42	20 (Minneapolis-St. Paul)
144	128	(Abilene TX)	42	32 (Dallas-Fort Worth)
145	76	(Greenville MS)	42	26 (Memphis-Jackson)
146	143	(Casper WY-ID-UT)	42	33 (Denver)
147	149	(Twin Falls ID)	42	42 (Salt Lake City)
148	126	(Western Oklahoma OK)	42	37 (Oklahoma City)
149	16	(Staunton VA-WV)	42	6 (Richmond)
150	48	(Charleston WV-KY-OH)	42	13 (Cincinnati-Dayton)
151	116	(Sioux Falls SD-IA-MN-NE)	42	20 (Minneapolis-St. Paul)
152	113	(Fargo-Moorhead ND-MN)	42	20 (Minneapolis-St. Paul)
153	95	(Jonesboro AR-MO)	42	28 (Little Rock)
154	108	(Wausau WI)	42	17 (Milwaukee)
155	102	(Davenport-Moline IA-IL)	42	21 (Des Moines-Quad Cities)
156	142	(Scottsbluff NE-WY)	42	33 (Denver)
157	52	(Wheeling WV-OH)	42	12 (Pittsburgh)
158	144	(Billings MT-WY)	42	41 (Spokane-Billings)
159	168	(Pendleton OR-WA)	42	41 (Spokane-Billings)
160	115	(Rapid City SD-MT-NE-ND)	42	33 (Denver)
161	110	(Grand Forks ND-MN)	42	20 (Minneapolis-St. Paul)
162	117	(Sioux City IA-NE-SD)	42	21 (Des Moines-Quad Cities)
163	155	(Farmington NM-CO)	42	39 (El Paso-Albuquerque)

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164	112	(Bismarck ND-MT-SD)	42	20 (Minneapolis-St. Paul)
165	72	(Paducah KY-IL)	42	23 (Louisville-Lexington-Evansville)
166	171	(Anchorage AK)	42	47 (Alaska)
167	120	(Grand Island NE)	42	34 (Omaha)
168	146	(Missoula MT)	42	41 (Spokane-Billings)
169	58	(Northern Michigan MI)	42	16 (Detroit)
170	111	(Minot ND)	42	20 (Minneapolis-St. Paul)
171	114	(Aberdeen SD)	42	20 (Minneapolis-St. Paul)
172	145	(Great Falls MT)	42	41 (Spokane-Billings)
173	121	(North Platte NE-CO)	42	34 (Omaha)
174	173	(Guam-Northern Mariana Islar)	42	49 (Guam and the Northern Mariana Islands)
175	175	(American Samoa)	42	51 (American Samoa)
176	176	(Gulf of Mexico)	42	52 (Gulf of Mexico)