Appendix E- Tables

| State | Number of sites with WIFL territories 1993-01 ² | Percentage of sites with WIFL territories 1993-01 | Number of territories ³ | Percentage of total territories |
|------------|---|--|------------------------------------|---------------------------------|
| Arizona | 95 | 43 % | 359 | 36 % |
| California | 77 | 35 % | 256 | 26 % |
| Colorado | 5 | 1 % | 37 | 4 % |
| Nevada | 10 | 5 % | 73 | 7 % |
| New Mexico | 32 | 15 % | 258 | 26 % |
| Utah | 2 | 1 % | 3 | 0.3% |
| Texas | ? | ? | ? | ? |
| Total | 221 | 100 % | 986 | 100 % |

¹Sogge *et al.* 2002.
²Site boundaries are not defined uniformly throughout the bird⁻s range.
³ Total territory numbers recorded are based upon the most recent years survey information from that site between 1993 and 2001.

Table 1. Rangewide population status for the southwestern willow flycatcher based on 1993 to 2001 survey data for Arizona, California, Colorado, New Mexico, Nevada, Utah, and Texas¹.

| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| Rio Grande | 12 | 22 | 26 | 40 | 31 | 13 | 29 | 74 | 70 | 130 |
| Chama | 2 | 4 | 2 | 5 | 4 | 3 | no | no | 4 | no |
| | | | | | | | survey | survey | | survey |
| Canadian | 2 | 3 | 3 | 4 | 2 | 5 | unk | 17 | 1 | 3 |
| Gila | 8 | 126 | 144 | 153 | 196 | 231 | 255 | 156 | 155 | 196 |
| Zuni | 3 | 4 | 3 | 5 | 6 | 6 | 6 | 4 | unk | 3 |
| San | 2 | 0 | no |
| Francisco | | | survey |

Table 2. Number of territories by drainage of southwestern willow flycatchers in New Mexico 1993-2002

| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|----------------|---------------|----------|---------|----------|-----------|----------|--------|-----------|---------|--------|
| Taos Juntion | 1 | 0 | no | 1 | no | 0 | no | 0 | 0 | 0 |
| Bridge | | | survey | | survey | | survey | | | |
| Orilla Verde | 2 | 1 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 |
| Velarde, La | ? | 1 | 3 | 3 | 2 | 0 | 0 | 1 | 1 | 0 |
| Canova | | | | | | | | | | |
| Velarde, | no | no | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Garcia | survey | survey | | | | | | | | |
| Acequia | | - | | | | | | | | |
| Velarde, La | no | no | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Rinconada | survey | survey | | | | | | | | |
| Velarde, El | no | no | no | 1 | 1? | no | no | 0 | no | 0 |
| Guique | survey | survey | survey | | | survey | survey | | survey | |
| San Juan | 2 | 4 | 4 | 12 | 10 | no | no | 16 | no | no |
| Pueblo | | | | | | survey | survey | | survey | survey |
| Isleta Marsh | no | 3 | 4 | 3 | no | no | no | 16 | no | no |
| | survey | | | | survey | survey | survey | | survey | survey |
| Casa Colorada | no | no | no | no | no | no | no | no | no | 1 |
| | survey | survey | survey | survey | survey | survey | survey | survey | survey | |
| La Joya | no | no | no | no | no | no | no | 1 | 7 | 6 |
| - | survey | survey | survey | survey | survey | survey | survey | | | |
| Sevilletta | no | no | no | no | no | no | 4 | 6 | 4 | 6 |
| NWR | survey | survey | survey | survey | survey | survey | | | | |
| Bosque Del | 3 | 4 | 2 | 4 | 3 | 3 | 2 | 1 | 1 | 5 |
| Apache | | | | | | | | | | |
| San Marcial to | 1 | 11 | 7 | 10 | 11 | 9 | 20 | 25 | 25 | 62 |
| Elephant Butte | | | | | | | | | | |
| Selden Canyon | no | no | no | no | no | no | 5 | 3 | no | 3 |
| | survey | survey | survey | survey | survey | survey | | | survey | |
| Radium | 1 | no | no | 2 | no | no | 1 | 3 | no | 5 |
| Springs | | survey | survey | | survey | survey | | | survey | |
| Table 2 Numb | " an af wi | llow fly | aatahan | tomitoni | ag at Irm | our aito | alamat | ha Dia Ca | ondo in | Now |

Table 3. Number of willow flycatcher territories at known sites along the Rio Grande in New Mexico

| Agency | Purpose | Time period | Take Permitted | |
|------------------------------|--|---|---|--|
| NMESFO (Sec 10) | Captive propagation and salvage | Per year | Unlimited | |
| | Collection for captive propagation | Per year | 500,000 eggs or larvae | |
| | Collection for spawning and brood stock | Per year | 1000 a dults | |
| | Captive propagation | Per year | 1,000,000 eggs or larvae | |
| NMFRO (Sec 10) | Maintain in captivity at NMFRO and Bosque del Apache Refuge | Per year | 20,000 juveniles or adults | |
| | Stock into river | Per year | 500,000 | |
| | Provide minnows to other facilities | Per year | 5,000 | |
| C_{amp} (Sec. 10) | Salvage (coordinated with Service) | Per year | Unlimited | |
| Corps (Sec 10) | Collection for voucher specimens | Per year | 50 | |
| | Maintain in captivity for scientific investigations | Per year | 500 (200 may be killed) | |
| Reclamation (Sec 10) | Collection for voucher specimens | Per year (June 1 œAugust 31) | 100 per site | |
| | concerton for voluence specimens | Per year (September 1 œ May 31) | 100 | |
| City of Albuquerque | Collection for voucher specimens | Per year | 100 | |
| (Sec 10) | Captive propagation | Per year | Unlimited | |
| | Collection for voucher specimens | Per year | 1,000 per site | |
| NMDGF (Sec 10) | Captive propagation | Per year | 50,000 (20,000 may be killed) | |
| NMSU Coop Unit (Sec 10) | Captive propagation and scientific investigations | Per year | 50,000 (20,000 may be killed) | |
| | | Per year (May 1 œAugust 31) | 500 per site | |
| UNM (Sec 10) | Collection for voucher specimens | Per year (September 1 œ April 31) | 100 per site | |
| | Collection for quantification during spawning | Per year | 100,000 eggs | |
| | Collection for controlled propagation | Per year | Unlimited eggs | |
| | Collection for spawning and brood stock | Per year | 2,000 | |
| | Collection for genetic purposes | Per year | 300 (30 may be killed) 1000 larval fish | |
| Yankton USGS-BRD (Sec 10) | Maintain in captivity for scientific investigations (toxicity testing) | Per year | 5,000 (2,000 may be killed) | |
| Multiple agencies (Sec 7) | 2001 Programmatic W ater Operations Biological Opinion | 2001 œ2003 | 100,000 (500 adults found dead; 750 juveniles found dead) | |

Table 4. Silvery minnow take associated with current section 10 and section 7 permits.

| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|--------------------------|--------|------------|-------------|--------|-------------|---------|--------------|-------------|-----------|-----------|
| Chama | 2 | 4 | 2 | 5 | 4 | 3 | no | no | 4 | no survey |
| Taos Juntion Bridge | 1 | 0 | no surve | 1 | no surve | 0 | no survey | survey 0 | 0 | 0 |
| | | 1 | y | 2 | у | 0 | 0 | 1 | 0 | 0 |
| Orilla Verde | 2 ? | 1 | 1 3 | 2 3 | 2 2 | 0 | 0 | 1 | 0 | 0 |
| Velarde, La Canova | ? | 1 | 3 | 3 | 2 | 0 | 0 | 1 | 1 | 0 |
| Velarde, | no | no | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Garcia | survey | survey | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Acequia | | | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Velarde, La | no | no | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| Rinconada Velarde, El | survey | survey | * | 1 | 1? | 20 | 20 | 0 | 20 | 0 |
| · · · · · | no | no | no | 1 | 1: | no | no | 0 | no | 0 |
| Guique | survey | survey | | | | sui vey | survey | | survey | |
| San Juan | 2 | 4 | у 4 | 12 | 10 | no | no | 16 | no | no survey |
| Puelo | 2 | т | т | 12 | 10 | | survey | 10 | survey | no suivey |
| Isleta Marsh | no | 3 | 4 | 3 | no | no | no | 16 | no | no survey |
| 101010 1010101 | survey | 5 | • | 5 | | survey | | 10 | survey | no sur ey |
| | | | | | y | Sea (C) | Sea (C) | | Sea (C) | |
| Casa | no | no | no | no | no | no | no | no | no | 1 |
| Colorada | survey | survey | surve | surve | | survey | | survey | | |
| | | • | у | у | у | | | | | |
| La Joya | no | no | no | no | no | no | no | 1 | 7 | 6 |
| | survey | survey | surve | surve | surve | survey | survey | | | |
| | | | у | у | у | | | | | |
| Sevilletta | no | no | no | no | no | no | 4 | 6 | 4 | 6 |
| NWR | survey | survey | surve | surve | surve | survey | | | | |
| | | | у | У | У | | | | | |
| 1 | 3 | 4 | 2 | 4 | 3 | 3 | 2 | 1 | 1 | 5 |
| Apache | | | | | | _ | | | | |
| San Marcial | 1 | 11 | 7 | 10 | 11 | 9 | 20 | 25 | 25 | 62 |
| to Elephant | | | | | | | | | | |
| Butte | | | | | | | - | 2 | | 2 |
| Selden | no | no | no | no | no | no | 5 | 3 | no | 3 |
| Canyon | survey | survey | | | | survey | | | survey | |
| | 1 | | У | у | У | | 1 | 2 | | ~ |
| Radium | 1 | no | no | 2 | no | no | 1 | 3 | no | 5 |
| Springs | | survey | | | | survey | | | survey | |
| | | <i>,</i> 1 | У | .11 | у С | 1 . | ., . | ·.1 · · | 1 1 1 1 1 | |

Table 5. Estimate of southwestern willow flycatcher territories within the Middle Rio Grande

| Year | Territories adjacent to or within Elephant Butte Reservior/ Delta | Total Territorie s | Pairs | Nests |
|------|---|--------------------------|-------|-------|
| 1994 | 0 | 11 | 8 | 5 |
| 1995 | 0 | 8 | 5 | 5 |
| 1996 | 7 | 20 | 3 | 1 |
| 1997 | 9 | 10 | 3 | 2 |
| 1998 | 7 | 11 | 4 | 2 |
| 1999 | 4 | 12 | 5 | 5 |
| 2000 | 19 | 23 | 20 | 19 |
| 2001 | 22 | 25 | 25 | 36 |
| 2002 | 51 | 62 | 52 | 67 |

Table 6. The status of breeding willow flycatchers within the San Marcial river reach from 1994 œ2002 (Mehlhop and Tonne 1994, Henry et al 1996, Ahlers and White, 1995-1999, Ahlers et al 2000-2002).

| Willow Flycatcher Habitat Category | Sevilleta /La Joya | Upper north | Upper south (includin g Tiffany area) | Lower east | Lower west | Delta | Total |
|---|-----------------------|----------------|---|---------------|---------------|-------|--------|
| Highly Suitable | 217 | 19 | 184 | 255 | 77 | 65 | 817 |
| Suitable | 757 | 85 | 192 | 119 | 35 | 46 | 1,234 |
| Marginall y Suitable | 898 | 169 | 729 | 59 | 134 | 6 | 1,995 |
| Potential | 1081 | 426 | 183 | 50 | 35 | 37 | 1,812 |
| Low Suitability | 11,204 | 2,264 | 2,372 | 133 | 1440 | 1,678 | 19,091 |
| Total | 14,157 | 2,963 | 3,660 | 616 | 1721 | 1,832 | 24,949 |

Table 7. Hectares of willow flycatcher habitat categories on the Rio Grande between Highway 60 (Bernardo) and the Delta of Elephant Butte Reservoir as it was delineated in 2001(Ahlers et al 2001).

| Action (County) | Year | Federal Agency ¹ | Incidental Take Anticipated |
|--|-------|--------------------------------|---|
| Arizona | | | |
| Apache Maid Allotment (Yavapai, Coconino) | 1995 | USFS | None |
| Tuzigoot Bridge (Yavap ai) | 1995 | NPS | Take of 1 WIFL each year the site is occupied |
| Windmill Allotment (Yavapai) | 1995 | USFS | Take of 1 W IFL nest annually for 2 years due to parasitism |
| Solomon Bridge (Graham) | 1995 | FHWA | Take of 2 territories |
| Tonto Creek Riparian Unit (Maricopa) | 1995 | USFS | Take unquantifiable. Take as a result of parasitism, disturbance, modification of nesting habitat, loss of nesting sites. |
| Eastern Roosevelt Lake Watershed Allotment (Maricopa) | 1995 | USFS | Take unquantifiable. Take as a result of parasitism, disturbance, modification of nesting habitat, loss of nesting sites. |
| Cienega Creek (Pima) | 1996 | BLM | Take of 1 W IFL nest annually by cowbird parasitism |
| Glen Canyon Spike Flow (Coconino) | 1996 | USBR | Take unquantifiable. Take of WIFL habitat, loss of riparian understory habitat |
| Verde Valley Ranch Development (Yavapai) | 1996* | Corps | Take of 2 flycatcher territories |
| Modified Roosevelt Dam (Gila, Maricopa) | 1996* | USBR | Take of 45 territories through hab itat removal; take of 90 b irds via reduced productivity/ survivorship. |
| Lower Colorado River Operations and Maintenance - Lake Mead to Southerly International Border - AZ/CA/NV (Mohave, La Paz, Yuma) | 1997* | USBR | Take unquantifiable. Take as a result of riparian habitat loss and degradation, inundation, reduced productivity and survivorship, nest loss/aband onment, parasitism, recreation, fire, predation. |

Ē

| | | Federal | Incidental Take |
|--|------|---------------------------------|--|
| Action (County) | Year | Agency ¹ | Anticipated |
| Blue River Road (Greenlee) | 1997 | USFS | Take unquantifiable. Take of WIFL habitat, feeding, sheltering, increased rates of mortality, starvation, predation. |
| Skeleton Ridge - Cedar Bench A llotments (Yavap ai) | 1997 | USFS | Take unquantifiable. Take of WIFL habitat. |
| White Canyon Fire œ Emergency Consultation (Pinal) | 1997 | BLM | Take of 4 WIFL pairs from harassment |
| U.S. Hwy 93 Wickenburg (Mohave,Yavapai) | 1997 | FHWA | Harassment of 6 birds in 3 territories and 1 bird killed/decade |
| Safford District Grazing Allotments (Greenlee, Graham, Pinal, Cochise & Pima) | 1997 | BLM | Take unquantifiable. Take as a result of parasitism, disturbance, modification of nesting habitat, loss of nesting sites. |
| Lower Gila Resource Plan Amend. (Maricopa, Yavapai, Pima, Pinal, La Paz, Yuma) | 1997 | BLM | Take unquantifiable. Take of WIFL habitat. through loss of cottonwood and willow seedlings, bark stripping, and trailing. |
| Storm Water Permit for Verde Valley Ranch (Yavapai) | 1997 | EPA | Take unquantifiable. Take in the form of degraded watershed and riparian W IFL habitat, and loss of WIFL habitat due to groundwater pumping and polluntants. |
| Gila River Transmission Structures (Graham) | 1997 | AZ Electric Power Coop. Inc. | Take from harassment or harm due to habitat modification, reduced productivity, disturbance, parasitism. |
| Land and Resource Management Plans for the 11 National Forests and National Grasslands of the Southwestern Region of the U.S. Forest Service (Various AZ and NM) | 1997 | USFS | None |

| | | Federal | Incidental Take |
|---|------|---------------------|---|
| Action (County) | Year | Agency ¹ | Anticipated |
| Phoenix Resource Management Plan (Apache, Navajo, Gila, Maricopa, Pinal, Pima, Santa Cruz, Yavapai) | 1998 | BLM | None |
| Yuma Resource Management Plan (Yuma, La Paz, Mohave) | 1998 | BLM | None |
| Arizona Strip Resource Mgmt Plan Amendment (Mohave) | 1998 | BLM | Take of 1 nesting attempt every 3 years. Take through parasitism, habitat loss from fire, recreation, development |
| CAP Water Transfer Cottonwood/Camp Verde (Yavapai, Maricopa) | 1998 | USBR | Take unquantifiable. Take through parasitism, disturbance, modification of nesting habitat, loss of nesting sites |
| Cienega Creek Stream Restoration Project (Pima) | 1998 | BLM | Take of 1 WIFL through harrassment |
| Kearny Wastewater Treatment (Pinal) | 1998 | FEMA | Take unquantifiable. Take through WIFL habitat loss, modification, harassment. |
| Fort Huachuca Programatic (Cochise) | 1998 | DOD | None |
| SR 260 Cottonwo od to Camp V erde (Y avapai) | 1998 | FHWA | Take unquantifiable. Take as a result of harm, injury, and death as a result of the loss of nesting sites, disturbance, modification of habitat, reduced productivity and survivorship, parasitism, and collision with vehicles. |
| Wildlife Services beaver trapping activities | 1998 | Wildlife Services | in consultation |
| Alamo Dam Reoperation (LaPaz, Mohave) | 1998 | Corps | Take of a WIFL nest with 2 eggs/fledglings every 20 years due to inundation. |

| | | Federal | Incidental Take |
|--|------|---------------------|--|
| Action (County) | Year | Agency ¹ | Anticipated |
| Bridge Fire, San Pedro National Conservation Area, Emergency Consultation (Cochise) | 1998 | BLM | None |
| Reintroduction of Beaver into the San Pedro NCA (Cochise) | 1998 | BLM | Take of 1 W IFL nest every 5 years due to beaver, and 1 W IFL nest every 5 years due to flooding increased predation/parasitism |
| Duncan HW Y 75 Bridge over Gila River (Greenlee) | 2000 | FHWA | None |
| Red Creek Grazing Allotment (Gila) | 2000 | USFS | None |
| Lower Colorado River, Interim Surplus Criteria Criteria/4.4 Plan (Mohave, La Paz, Yuma) | 2001 | USBR | Take of 372 acres of flycatcher habitat |
| Mingus Ave Extension, Bridge over Verde River (Yavapai) | 2001 | Corps | Take of 3.34 acres of flycatcher habitat |
| Pleasant Valley Grazing Allotment, Apache (Greenlee) | 2001 | USFS | None |
| Peck Canyon Scour HWY I-19 protection (Santa Cruz) | 2001 | Corps | None |
| Wikieup/Big Sandy Caithness power plant (Mohave) | 2001 | WAPA/BLM | in consultation |

| Action (County) | Year | Federal Agency ¹ | Incidental Take Anticipated |
|--|------|--------------------------------|--------------------------------|
| The Homestead at Camp Verde Development (Yavapai) | 2001 | EPA | None |
| 25 grazing allotments on Tonto National Forest (Various) | 2002 | USFS | None |
| Eagle Creek watershed grazing allotments -Tule, Mud Springs, Double Circle, East Eagle, Baseline - Horse Spring and Dark Canyon (Greenlee) | 2002 | USFS | None |
| Dos Pobres -San Juan project(Graham) | 2002 | BLM | None |
| Gila River grazing allotments (Pinal) | 2002 | BLM | in consultation |
| Re-initiation of Lower Colorado River Operations and Maintenance - Lake Mead to Southerly International Border - AZ/CA/NV (Mohave, La Paz, Yuma) | 2002 | USBR | None |
| Re-initiation of Fort Huachu ca Programmatic (Cochise) | 2002 | DOD | None |
| Issuance of Section 10 permit for Operation of Roosevelt Dam at Roosevelt Lake HCP (Gila, Maricopa) | 2002 | SRP | in consultation |
| Re-initiation of Modified Roosevelt Dam (Gila, Maricopa) | 2002 | USBR | in consultation |

| | | Federal | Incidental Take |
|--|------|---------------------|--|
| Action (County) | Year | Agency ¹ | Anticipated |
| U.S. Hwy 93 Wickenburg (Mohave,Yavapai) | 2003 | FHWA | Harm and harassment of 4 birds in 2 territories from reduced productivity, displacement, reduced survivorship, 2 birds killed/decade, harm and harassment to 2 territories from reduced productivity annually for the next 10 years as a result of predation and brood parasitism |
| California | | | |
| Prado Basin (Riverside/San Bernardino) | 1994 | Corps | None |
| Orange County Water District (Orange) | 1995 | Corps | None |
| Temescal Wash Bridge (Riverside) | 1995 | Corps | Take of 2 flycatchers |
| Camp Pendleton (San Diego) | 1995 | DOD | Take 4 flycatcher territories |
| Lake Isabella Operations 1996 (Kern) | 1996 | Corps | Inundation 700 acres critical habitat; reduced productivity 14 pairs |
| Lake Isabella Long-Term Operations (Kern) | 1997 | Corps | Annual inundation of 1,100 ac critical habitat |
| H.G. Fenton Sand Mine and Levee near Pala on the San Luis Rey River (San Diego) | 1997 | Corps | None |
| Re-initiation of Lake Isabella Dam Operation (Kern) | 2000 | Corps | inundation of 1,100 ac critical habitat and reduced survival and productivity of all nesting pairs and young |
| Questar [°] s southern trails pipeline, CA, AZ, UT (various) | 2000 | FERC | ? |
| Mill Creek Diversion, Prado Basin (Riverside) | 2000 | Corps | None |

| | | Federal | Incidental Take |
|---|-----------|---------------------|--|
| Action (County) | Year | Agency ¹ | Anticipated |
| Level 3 long haul fiber | | 8, | |
| optic network, San Diego | | | |
| CA to CA/AZ state line | 2000 | BLM | ? |
| (San Diego, Imperial) | | | |
| Land and Resource Plans | | | Take as described in 1-6- |
| for 4 southern CA | 2001 | USFS | 99-F-21, riparian species |
| National Forests | | | biological opinion |
| San Timoteo Creek Reach | • • • • • | ~ | Take of 1 pair of |
| 3B Flood Control Project | 2001 | Corps | flycatchers and 16.2 ac of |
| (San Bernardino) | | | flycatcher habitat |
| CA FDA 5-year permit for malathion use | 2001 | BLM | 2 flycatchers |
| (Imperial, Riverside) | 2001 | DEW | 2 Hyeateners |
| Prado mainstem and | | | |
| Santa Ana River flood | | | |
| control and Norco Bluffs | 2001 | Corps | None |
| stabilization project | 2001 | Corps | ivone |
| (Orange, Riverside, San | | | |
| Bernardino) | | | |
| Four grazing allotments on San Bernardino NF | 2001 | USFS | None |
| (San Bernardino) | 2001 | 0010 | ivone |
| | | | Two parasitized |
| Re-initiation of Cleveland | | | nests/year. Take through |
| NF grazing program | 2001 | USFS | parasitism, nest |
| (Orange, Riverside, San | 2001 | 0010 | abandonment, loss of |
| Diego) | | | eggs/young, degradation of nesting hab itat |
| Highway 71 widening | | | of nesting had that |
| amendment (Riverside) | 2002 | FHWA | None |
| Colorado | | | |
| AB Lateral - | | | |
| Hydroelectric - | | | |
| Hydrop ower Fac ility, | | | |
| Gunnison River to | 1996 | USBR | None |
| Uncompany River | | | |
| (Montrose) TransColorado Gas | | | |
| TransColorado Gas | | | |
| Project (Meeker, | 1998 | BLM | None |
| Colorado to Bloomfield, | | | |
| New Mexico) | | | |
| Pagosa Area Water and | | | |
| Sanitation District Water | 2000 | Corps | 1 pair of flycatchers |
| Intake (Archuleta County) | | | |

| Action (County) | Year | Federal Agency ¹ | Incidental Take Anticipated |
|---|-------|--------------------------------|---|
| US Highway 160/County Road 501 widening - realignment, Bayfield | 2001 | FHWA | 2 pairs of flycatchers |
| (La Plata County) Archuleta County Rd 119 widening/realignment, Pagosa Springs (Archuleta County) | 2001 | Corps | l pair of flycatchers |
| Nevada | | | |
| Gold Properties Resort (Clark) | 1995 | BIA | Take of 1 flycatcher from habitat loss |
| Las Vegas Wash, Pabco Road Erosion Control Structure | 1998 | Corps | Take of 2-3 pairs of flycatchers |
| New Mexico | | | |
| Corrales Unit, Rio Grande (Bernalillo) | 1995 | Corps | None |
| Rio Puerco Resource Area (Various) | 1997 | BLM | None |
| Taos Resource Area (Various) | 1997 | BLM | 1 pair of flycatchers |
| Caballo Resource Area (Various) | 1997 | BLM | None |
| Farmington District Resource Management Plan (Various) | 1997* | BLM | None |
| Mimbres Resource Area Management Plan (Various) | 1997* | BLM | 1 pair of flycatchers |
| Discretionary actions related to water management on the Middle Rio Grande River (various) | 2001* | USBR/Corps | None |

BIA = Bureau of Indian Affairs; BLM = Bureau of Land Management; Corps = Army Corps of Engineers; DOD = Dept. of Defense; EPA = Environmental Protection Agency; FEM A = Federal Emergency Management Agency; FHWA = Federal Highway Administration; NF = National Forest; NPS = National Park Service; USBR = U.S. Bureau of Reclamation; USFS = U.S. Forest Service; WAPA = Western Area Power Administration.

* Jeopardy opinions.

Recovery Unit

Current Number of Territories

| Coastal California | 186 |
|--------------------|------------|
| Basin and Mojave | 69 |
| Upper Colorado | 3 |
| Lower Colorado | 146 |
| Gila | 454 |
| Rio Grande | <u>154</u> |
| Total | 1012 |

Table 9. Minimum number of southwestern willow flycatcher territories based on the most recent available survey data for all breeding sites known to be occupied for at least one year between 1993 and 2001 (2002 for Rio Grande).

| Area with known flycatcher sites | 2002 territory#/# of successful nests | Effects of action in dry scenario | Take anticipated harassment/reduced nest success |
|-------------------------------------|---------------------------------------|--------------------------------------|--|
| Chama | 1/? | No adverse affect | none |
| Velarde and Taos | 21/unk | No adverse affect | none |

| Isleta | 16/unk | No adverse affect | none |
|--|--------|-------------------|-------|
| Belen | 1/0 | drying in May | 1/0 |
| Seviletta/La Jolla | 12/7 | drying in April | 12/7 |
| San Acacia to the Refuge | 4/0 | drying in April | 4/0 |
| the Refuge | 5/unk | drying in April | 5/? |
| San Marcial sites supported by Rio Grande ¹ | 19/14 | drying in April | 19/14 |
| San Marcial sites supported by LFCC ² | 34/55 | No adverse affect | 34/55 |

Table 10. Known flycatcher nesting sites along the Rio Grande and anticipated affects of the proposed action.

¹ Sites: LF-21, 22, 12, 31, 14, 16, 18, DL-3

² Sites: FL-17, 17A, DL-West