Table 1. County and miscellaneous abbreviations.

AP	Apache	MA	Maricopa
CH	Cochise	MO	Mohave
CN	Coconino	NA	Navajo
CP	Colorado Plateau	PM	Pima
GI	Gila	PN	Pinal
GM	Graham	SC	Santa Cruz
GN	Greenlee	YA	Yavapai
LP	La Paz	YU	Yuma

Table 2. Location keywords and counties

Agua Caliente area	MA YU	Big Black Mesa(YA)	YA
Agua Dulce Mts.	PM YU	Big Horn Mts.	MA
Agua Fria area	YA	Big Sandy Valley	MO
Aguila Mts.	MA YU	Bill Williams Mts.	MO
Aguila Ridge	YA MA	Black Canyon	YA
Aguila Valley	MA	Black Hills(YA)	YA
Aguirre Valley	PM	Black Mesa(CP)	AP CN NA
Ajo Range	PM	Black Mtn.(AP)	AP
Allen Flat	CH	Black Mtn.(PN)	PN
Alpine area	AP	Black Mts.(YA)	YA
Altar Valley	PM	Black River area	AP GI GM GN NA
Alvarez Mts.	PM	Bloody Basin	YA
Anderson Mesa	CN	Blue River area	GN
Antelope Valley	MO	Bonita Creek Basin	GM
Apache Mts.	GI	Bouse Hills	LP
Apache Pass	CH	Bozarth Mesa	YA
Apache Ridge	GI	Bradshaw Mts.	YA
Aquarius Mts.	MO YA	Brownell Mts.	PM
Aravaipa area	GM	Bubby Buttes area	YA
Aravaipa Canyon	GM PN	Buck Mts.	MO
Aravaipa Valley	GM	Buckeye area	MA
Arlington Valley	MA	Buckeye Hills	MA
Artesa Mts.	PM	Buckhorn Mts.	YA
Artillery Mts.	MO	Buckskin Mts.	LP
Ash Flat	GM	Buell Park	AP
Ashfork area	CN YA	Burro Creek area	MO YA
Atascosa Mts.	SC	Butler Valley	LP
Aubrey Cliffs	CN	Cabeza Prieta Mts.	YU
Aubrey Hills	MO	Cactus Plain	LP
Aubrey Peak area	MO	Cameron area	CN
Aubrey Valley	CN YA	Camp Creek area	MA
Avra Valley	PM	Camp Grant Wash area	PN
Aztec Hills	YU	Camp Wood area	YA
Babocomari River area	CH SC	Canada del Oro	PM PN
Baboquivari Mts.	PM	Canelo Hills	SC CH
Baboquivari Valley	PM	Canyon Creek area	GI NA
Bagdad area	YA	Canyon de Chelly	AP
Baker Peaks	YU	Canyon Diablo area	CN
Batamote Mts.	PM	Carol Spring area	GI
Bates Mts.	PM	Carrizo Embayment	GI NA
Bear Hills	LP	Carrizo Mts.	AP
Bear Mtn. area	YA	Carson Mesa	AP
Beaver Dam Mts.	MO	Casa Grande area	PN
Belmont Mts.	MA	Casa Grande Mts.	PN

Castaneda Basin	MO
Castaneda Hills	MO
Castle Dome Mts.	YU
Castle Dome Plain	YU LP
Cave Creek area	MA
Cemetery Ridge	LP YU
Central Grand Canyon	CN MO
Cerbat Mts.	MO
Cerro Colorado Mts.	PM
Chevelon Creek	CN NA
Childs Mtn.	PM MA
Childs Valley	MA
Chinle Valley	AP
Chino Valley	CN YA
Chiricahua Mts.	CH
Chocolate Mts.	LP YU
Chuska Mts.	AP
Cibola Valley	LP
Cienega Gap area	PM
Cimarron Mts.	MA PM PN
Cimarron Peak	PM
Circle I Hills	CH
Citrus Valley	MA
Clanton Hills	YU
Cobre Ridge	SC
Coconino Plateau	CN
Comb Ridge	AP NA
Congress Basin	YA
Copper Mts.	YU
Cortez Butte	MA
Cotton Center area	MA
Cottonwood Mts.	MO
Cove Mesa	AP
Coyote Mts.	PM
Crater Range	MA
Cross Mtn. area	YA
Cypress Mtn. area	YA
Date Creek Basin area	LP YA
Date Creek Mts.	YA
Dateland area	YU
Deer Creek	PN
Defiance Plateau	AP
Del Bac Hills	PM
Dendora Valley	MA
Desert Peak area	PN
Desert View area	CN
Detrital Valley	MO
Diamond Butte area	GI
Dobbs Buttes	PM
Dome Rock Mts.	LP
Donnelly Wash area	PN
Dos Cabezas Mts.	CH
Dragoon Mts.	CH
Dripping Spring Mts.	GI PN
Dripping Spring Valley	GI
Dry Beaver Creek	CN YA
Dugas area	YA
Duncan area	GN
Durham-Suizo area	PN
Dutch Flat	MO
Eagle Pass	GM
Eagletail Mts.	LP MA YU
East Clear Creek	CN NA
East Sunset Mtn.	CN
Eastern Grand Canyon	CN
Echo Cliffs	CN
Ehrenberg area	LP
Empire Mts.	PM
Falcon Valley	PN
Fisher Hills	CH
Flagstaff area	CN
Florence area	PN
Fossil Creek	CN GI YA
Four Bar Mesa area	GN
Francis Creek area	MO YA
Fredonia area	CN MO
Galiuro Mts.	CH GM PN
Garces Mesa	CN
Garnet Mtn.	MO
Gila Bend Mts.	MA
Gila Bend Plain	MA
Gila Box	GM GN
Gila Mts.(GM)	GM
Gila Mts.(YU)	YU
Gilbert area	MA PN
Glen Canyon	CN
Globe Hills	GI
Globe-Miami area	GI
Gold Basin	MO
Goldfield Mts.	MA
Grand Wash area	MO
Grand Wash Cliffs	MO
Granite Basin	PN
Granite Mtn. area(MA)	MA
Granite Mtn. area(YA)	YA
Granite Mts.	PM YU
Granite Wash Mts.	LP
Grapevine Mesa	MO
Gray Mesa	CN
Gray Mtn.	CN
Grayback Mtn. area	YA
Growler Mts.	PM MA
Growler Valley	PM
Gu Oidak Valley	PM
Gu Vo Hills	PM
Gunnison Hills	CH
Gunsight Hills	PM
Hack Canyon	MO
Hackberry area	MO
Hackberry Mtn. area	YA
Hannagan Meadow area	GN
Harcuvar Mts.	LP YA
Hardscrabble Mesa area	GI
Harquahala Mts.	LP MA
Harquahala Plain	LP MA
Hassayampa Plain	MA
Havasu Canyon	CN
Hay Hollow area	AP NA
Hayes Mts.	GI
Hells Hole area	GN

Hieroglyphic Mts.	MA YA
Higley Basin	MA PN
Holbrook area	NA
Hoover Dam	MO
Hopi Buttes	NA
Hoskinnini Mesa	NA
House Rock Valley	CN
Huachuca Mts.	CH SC
Hualapai Mts.	MO
Hualapai Plateau	CN MO YA
Hualapai Valley	MO
Hualapai Wash	MO
Humboldt Mtn. area	MA YA
Hunters Point area	AP
Hurricane Cliffs	MO
Imperial Reservoir area	LP YU
Ives Mesa	NA
Jerome area	YA
Jerusalem Mtn. area	PN GM
Johnny Lyon Hills	CH
Juniper Mts.	YA
Kaibab Mts.	CN
Kaibab Plateau	CN
Kaibito Plateau	CN
Kaka Valley	MA PM
Kanab Canyon	CN MO
Kanab Plateau	MO
Kayenta area	NA
King Valley	YU
Kingman area	MO
Kirkland Valley	YA
Klethla Valley	CN NA
Ko Vaya Hills	PM
Kofa Mts.	LP YU
Kohl Ranch area	GI
Komatke Gap	MA PN
Kupk Hills	PM
La Abra Plain	PM
La Lesna Mts.	PM
La Posa Plain	LP YU
La Quituni Valley	PM
Laguna Mts.	YU
Lake Havasu area	MO
Lake Mary area	CN
Lake Mead area	MO
Lake Mohave	MO
Lake Pleasant area	MA YA
Lake Powell	CN
Las Guijas Mts.	PM
Lechuguilla Desert	YU
Little Ajo Mts.	PM
Little Buckskin Mts.	LP
Little Colorado River Gorge	CN
Little Colorado River Valley	AP CN NA
Little Dragoon Mts.	CH
Little Harquahala Mts.	LP
Little Horn Mts.	LP YU
Livingston Hills	LP
Long Point area	CN
Lower Colorado River Valley	LP MO YU
Lower Salt River area	GI MA
Lower Verde River area	GI MA YA
Lukachukai Mts.	AP
Luke Basin	MA
Marble Canyon	CN
Marble Platform	CN
Marcou Mesa area	NA
Maricopa Mts.	MA
Maricopa-Stanfield Basin	PN
Mazatzal Mts.	GI MA YA
McClellan Wash area	PN
McCracken Mts.	MO
McDowell Mts.	MA
McMullen Valley	LP MA YA
Merrit Hills	YA
Mesa Redonda area	AP
Mescal Mts.	GI
Mesquite Mtn.	LP
Mesquite Mts.	PM
Meteor Crater	CN
Middle Mts.	LP YU
Midway area	MA
Milky Wash area	AP
Mineral Mtn. area	PN
Moenkopi Plateau	CN
Moenkopi Wash	CN
Mogollon Mesa	CN
Mogollon Rim - Apache segment	NA
Mogollon Rim - Tonto segment	CN GI
Mogollon Slope	CN NA
Mohave Mts.	MO
Mohave Valley	MO
Mohawk Mts.	YU PM
Mohawk Valley	YU
Mohon Mts.	MO YA
Monument Valley	AP NA
Moon Mtn.	LP
Morenci area	GN
Mormon Lake area	CN YA
Mt. Floyd area	CN YA
Mt. McDowell area	MA
Mt. Turnbull	GM
Mt. Union area	YA
Muggins Mts.	YU
Mule Mts.	CH
Music Mts.	MO
Mustang Mts.	CHSC
Natanes Mts.	GI GM
Natanes Plateau	GI GM
Neversweat Ridge	YU
New River area	MA YA
New Water Mts.	LP
Newberry Mesa	CN
Ninetysix Hills	PN
Nogales area	SC
Nokai Mesa	NA
North Comobabi Mts.	PM
Northern Black Mts.(MO)	MO
Northern Peloncillo Mts.	CH GM GN
Northern San Pedro Valley	GI GM PN PM CH

Northern Sulphur Springs Valley	CH GM
Oak Creek Canyon	CN YA
Oracle area	PN
Painted Desert	CN NA
Painted Rock Mts.	MA
Pajarito Mts.	SC
Palo Verde Hills	MA
Palo Verde Mts.	PN
Palomas Mts.	YU
Palomas Plain	MA YU
Paradise Valley	MA
Paria Plateau	CN
Parker area	LP
Parker Valley	LP
Pat Hills	CH
Patagonia Mts.	SC
Patagonia Water Gap	SC
Payson area	GI
Peacock Mts.	MO
Pearce area	CH
Pedregosa Mts.	CH
Peeples Valley	YA
Perilla Mts.	CH
Perkinsville area	YA CN
Perry Mesa	YA
Petrified Forest area	AP NA
Phoenix Mts. area	MA
Picacho Basin	PN PM
Picacho Butte area	YA
Picacho Mts.	PN
Picacho Peak	PN
Pima Butte area	MA PN
Pinacate Mts.	YU
Pinal Mts.	GI
Pinaleno Mts.	CH GM
Pine Mtn. area	YA
Pink Cliffs area	NA
Pinto Creek area	GI
Piute Mesa	NA
Plomosa Mts.	LP
Poachie Range	MO YA
Point of Pines area	GM
Pozo Redondo Mts.	PM
Pozo Verde Mts.	PM
Prescott area	YA
Puerco River area	AP
Puerto Blanco Mts.	PM
Queen Creek area	MA PN
Quijotoa Mts.	PM
Quinlan Mts.	PM
Quitobaquito Hills	PM
Railroad Pass	CH
Rainbow Plateau	CN NA
Rainbow Valley	MA
Ranegras Plain	LP
Rawhide Mts.	MO
Ray area	PN
Red Bird Hills	CH
Redington Pass	PM
Redrock Valley	AP
Rillito area	PM
Rincon Basin	NA
Rincon Mts.	CH PM
Rincon Valley	PM
Rock Springs area	MA YA
Rockinstraw Mtn. area	GI
Roosevelt Lake	GI
Rose Peak area	GN
Roskruge Mts.	PM
Ruby area	SC
Sacaton Mts.	PN
Sacaton Valley	PN
Sacramento Valley	MO
Saddle Mtn.	MA
Safford Basin	GI GM PN
Salt River Canyon area	GI
Salt River Mts.	GI
Samaniego Hills	PM PN
San Bernardino Valley	CH
San Carlos area	GI GM
San Carlos Lake	GI GM PN
San Cayetano Mts.	SC
San Cristobal Valley	YU
San Francisco Volcanic Field	CN
San Luis Mts.	PM
San Manuel area	PN
San Rafael Valley	SC CH
San Simon Valley(CH)	CH
San Simon Valley(GM)	GM
San Simon Valley(PM)	PM
Sand Tank Mts.	MA
Santa Catalina Mts.	PM PN
Santa Cruz Valley	PM SC
Santa Maria River area	LP MO YA
Santa Rita Mts.	PM SC
Santa Rosa Mts.	PM
Santa Rosa Valley	PM PN
Santa Teresa Mts.	GM
Santan Mts.	PN
Sastanha Mesa	AP
Sauceda Mts.	MA PM
Sauceda Valley	MA
Sawtooth Mts.	PN
Secret Mtn. area	CN YA
Segi Mesas	NA CN
Seneca area	GI
Sentinel Volcanic Field	MA YU
Sheridan Mts.	PM
Shivwits Plateau	MO
Shonto Plateau	CN NA
Sierra Ancha	GI
Sierra Blanca	PM
Sierra Estrella	MA PN
Sierra Pinta	YU
Sierra Prieta	YA
Sierrita Mts.	PM
Sikort Chuapo Mts.	PM
Sil Nakya Hills	PM
Silver Bell Mts.	PM PN
Silver Reef Mts.	PN

Skeleton Mesa	NA
Skull Valley	YA
Slate Mts.	PN PM
Snowflake area	NA
Sonoita Basin	PM SC
Sonoyta Mts.	PM
Sonoyta Valley	PM
Sonsela Buttes	AP
Sopori Wash	PM SC
South Comobabi Mts.	PM
South Mts.	MA
Southern Black Mts.(MO)	MO
Southern Peloncillo Mts.	CH
Southern San Pedro Valley	CH PM
Southern Sulphur Springs Valley	CH
Springerville Volcanic Field	AP NA
St. Johns area	AP
Stanley Butte area	GM
Steele Hills	CH
Sullivan Buttes	YA
Superior area	PN
Superstition Mts.	MA PN
Swisshelm Mts.	CH
Sycamore Canyon	CN YA
Table Top Mts.	PN
Tank Mts.	YU
Tanque Verde Ridge	PM
Tat Momoli Mts.	PN
Tat Momoli Valley	PN
Tecolote Valley	PM
Teec Nos Pos area	AP
Tempe Buttes	MA
The Great Plain	PM
The Rincon area	AP
The Tablelands	PN GM
Tinajas Altas Mts.	YU
Tombstone Hills	CH
Tonopah Desert	MA
Tonto Basin	GI
Toroweap Valley	MO
Tortilla Mts.	PN
Tortolita Mts.	PM PN
Trigo Mts.	LP
Trigo Peaks area	LP
Truxton Valley	MO
Tucson Basin	PM
Tucson Mts.	PM
Tule Desert	YU
Tule Mts.	YU
Tumacacori Mts.	SC
Turtle Mtn. area	GM GN
Tusayan Washes	CN NA
Two Bar Ridge	GI MA
Tyende Mesa	NA
Uinkaret Plateau	MO
Union Hills area	MA
Upper Eagle Creek area	GM GN
Vaca Hills	PM
Vaiva Hills	PN
Valley of the Ajo	PM
Vamori Valley	PM
Vekol Mts.	PN
Vekol Valley	MA PN
Ventana Mesa	AP
Verde Valley	YA
Vermillion Cliffs	CN
Virgin Mts.	MO
Virgin River area	MO
Vulture Mts.	MA
Wagoner area	YA
Walnut Canyon	CN
Ward Terrace	CN
Waterman Mts.	PM
Weaver Mts.	YA
Wellton area	YU
Wellton Hills	YU
West Clear Creek	CN YA
West Sunset Mtn.	CN
Western Grand Canyon	CN MO
Wet Beaver Creek	CN YA
Wheeler Ridge	MO
Whetstone Mts.	CH PM
White Hills	MO
White Mesa	CN
White Mts.	AP
White River area	AP GI NA
White Rock Mesa	AP NA
White Tank Mts.	MA
Whitlock Mts.	GM
Whitlow Canyon area	PN
Wickenburg area	MA YA
Wickenburg Mts.	MA YA
Wide Ruin area	AP
Willcox Playa	CH
Williams area	CN YA
Williamson Valley	YA
Winchester Mts.	CH GM
Window Rock area	AP
Window Valley	PM
Winslow area	CN NA
Witch Well area	AP
Wittman area	MA
Wupatki area	CN
Young area	GI
Yuma area	YU
Yuma Desert	YU
Zilnez Mesa	NA CN