

TV Translator Station K43AI • NTSC Channel 43 • Farmington, New Mexico

Results of OET-69 Interference Study for Proposed Operation

OET-69 Interference Analysis, 2000 Census
tvstudy v3.2.3

This interference study is based on 0.50 x 0.50 kilometer cells and terrain profiles with 10.0 points per kilometer. **FCC processing using these finer-resolution parameters is hereby requested**, pursuant to the Commission's August 10, 1998, Public Notice, "Additional Applications Processing Guidelines for DTV."

Longley-Rice errors ignored

Station record parameters:

--Proposed Operation--
Station: N43zL K43AI NEW
City: FARMINGTON, NM
Facility ID: 55565
Coordinates: N 36-40-17.0
W 108-13-52.7
Height AMSL: 1889.8 m
Maximum ERP: 10.2 kW
Azimuth pattern: 68933.apat
Orientation: 0.0
Elevation pattern: OET-69 generic
Service level: 74.4 dBu

Warning - some records had missing or bad data:

N28nL K28HA LIC	Below-ground AGL height, adjusted to 2m AGL
N28nL K28HI LIC	Below-ground AGL height, adjusted to 2m AGL
N28nL K28CG LIC	Below-ground AGL height, adjusted to 2m AGL
N57nL K57EB LIC	Missing or bad azimuth pattern data, substituted omni
N58zL K58CJ LIC	Below-ground AGL height, adjusted to 2m AGL
N58nL K58AA LIC	Missing or bad azimuth pattern data, substituted omni
N43nL K43DY LIC	Below-ground AGL height, adjusted to 2m AGL
N45nL K45DH LIC	Below-ground AGL height, adjusted to 2m AGL

Summary of Results

Protected station		Base Pop	IX Change	%Base	Unique IX
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N43-L K43JS CP	DURANGO, CO	28,173	20	0.07	20 (0.07%)
N43zL K43GT LIC	PAGOSA SPRINGS, CO	2,234	34	1.52	0 (0.00%)



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Protected station	Base Pop	IX Change	%Base	Unique IX
D42 KLUZ-TV CP ALBUQUERQUE, NM	887,399	-25,998	-2.93	0

Interfering station	Total IX	Unique IX
N43zL K43AI NEW FARMINGTON, NM	0	0
D41 KBIM-TV CP ROSWELL, NM	0	0
D42 KOAA-TV CP PUEBLO, CO	0	0
N41z KLUZ-TV LIC ALBUQUERQUE, NM	0	0

Protected station	Base Pop	IX Change	%Base	Unique IX
D42 KLUZ-TV alot ALBUQUERQUE, NM	887,399	15,280	1.72	0

Interfering station	Total IX	Unique IX
N43zL K43AI NEW FARMINGTON, NM	0	0
D42 KOAA-TV alot PUEBLO, CO	0	0
N41z KLUZ-TV LIC ALBUQUERQUE, NM	0	0

Protected station	Base Pop	IX Change	%Base	Unique IX
N28+L K28ER LIC DULCE & LUMBERT, NM	169	0	0.00	0

Interfering station	Total IX	Unique IX
N43zL K43AI NEW FARMINGTON, NM	0	0
N27zL K27IG LIC CORTEZ, CO	0	0
N28+L K28GE LIC WOODLAND PARK, CO	0	0
N28-L K28GV LIC TRES PIEDRAS, NM	0	0
N28-L K28IR CP LAS VEGAS, NM	0	0
N28-L KSPK-LP LIC WALSENBURG, CO	0	0
N28nL K28AD LIC MONTROSE, CO	0	0
N28nL K28EB LIC CORTEZ, ETC., CO	0	0
N28nL K28GT LIC CROWNPOINT, NM	0	0
N28nL K28HA LIC GRAND VALLEY, CO	0	0
N28nL K28HI LIC BRECKENRIDGE/DI, CO	0	0
N28zL K28GF LIC CIMARRON, NM	0	0
N29nL K29GO LIC CORTEZ, CO	0	0
N43-L K43JS CP DURANGO, CO	0	0
N43zL K43GT LIC PAGOSA SPRINGS, CO	0	0



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Protected station		Base Pop	IX Change	%Base	Unique IX
N28nL K28EB APP	CORTEZ, ETC., CO	186	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N27-L K27GJ LIC	FARMINGTON, NM	0	0
N27zL K27IG LIC	CORTEZ, CO	0	0
N28+L K28ER LIC	DULCE & LUMBERT, NM	0	0
N28-L K28GV LIC	TRES PIEDRAS, NM	0	0
N28-L KSPK-LP LIC	WALSENBURG, CO	0	0
N28nL K28AD LIC	MONTROSE, CO	0	0
N28nL K28GT LIC	CROWNPOINT, NM	0	0
N28nL K28HA LIC	GRAND VALLEY, CO	0	0
N28nL K28HI LIC	BRECKENRIDGE/DI, CO	0	0
N28zL K28GF LIC	CIMARRON, NM	0	0
N29nL K29GO LIC	CORTEZ, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N28nL K28EB LIC	CORTEZ, ETC., CO	2,618	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N27-L K27GJ LIC	FARMINGTON, NM	0	0
N27zL K27IG LIC	CORTEZ, CO	0	0
N28+L K28ER LIC	DULCE & LUMBERT, NM	0	0
N28-L K28GV LIC	TRES PIEDRAS, NM	0	0
N28-L KSPK-LP LIC	WALSENBURG, CO	0	0
N28nL K28AD LIC	MONTROSE, CO	0	0
N28nL K28CG LIC	RANGELY, CO	0	0
N28nL K28GT LIC	CROWNPOINT, NM	0	0
N28nL K28HA LIC	GRAND VALLEY, CO	0	0
N28nL K28HI LIC	BRECKENRIDGE/DI, CO	0	0
N28zL K28GF LIC	CIMARRON, NM	0	0
N29nL K29GO LIC	CORTEZ, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0



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Protected station		Base Pop	IX Change	%Base	Unique IX
N28nL K28GT LIC	CROWNPOINT, NM	2,747	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N28+L K28ER LIC	DULCE & LUMBERT, NM	0	0
N28-L K28GV LIC	TRES PIEDRAS, NM	0	0
N28-L K28IR CP	LAS VEGAS, NM	0	0
N28nL K28CE LIC	SOCORRO, NM	0	0
N28nL K28EB LIC	CORTEZ, ETC., CO	0	0
N28zL K28GF LIC	CIMARRON, NM	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43zL K43GQ LIC	KLGETOH, AZ	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N28zL K28HM LIC	THOREAU, NM	6,335	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N28+L K28ER LIC	DULCE & LUMBERT, NM	0	0
N28+L K28HY CP	DUNCAN, AZ	0	0
N28-L K28GV LIC	TRES PIEDRAS, NM	0	0
N28-L K28IR CP	LAS VEGAS, NM	0	0
N28nL K28CE LIC	SOCORRO, NM	0	0
N28nL K28EB LIC	CORTEZ, ETC., CO	0	0
N28nL K28GK LIC	SILVER CITY, NM	0	0
N28zL K28CW LIC	FLAGSTAFF, AZ	0	0
N28zL K28GF LIC	CIMARRON, NM	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43zL K43GQ LIC	KLGETOH, AZ	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N42nL K42DI LIC	BAYFIELD/IGNACI, CO	4,007	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
D42 KLUZ-TV CP	ALBUQUERQUE, NM	0	0
D42 KOAA-TV CP	PUEBLO, CO	0	0
N41+L K41DE LIC	CORTEZ, ETC., CO	0	0
N42nL K42AD LIC	BLANDING/MONTIC, UT	0	0
N42nL K42EV LIC	GLENWOOD SPRING, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N57nL K57BW LIC	SOUTH FORK, ETC, CO	0	0
N57nL K57CB LIC	ROMEO, ETC., CO	0	0
N57nL K57EB LIC	BLOOMFIELD, NM	0	0



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N43-L K43JS CP	DURANGO, CO	28,173	20	0.07	20

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	20	20
N42nL K42DI LIC	BAYFIELD/IGNACI, CO	0	0
N43nL K43AB LIC	GRAND JUNCTION,, CO	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43FI LIC	LAS VEGAS, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43nL K58DW CP	TAOS, NM	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GQ LIC	KLAGETO, AZ	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N43zL K43JI CP	SNOWMASS VILLAG, CO	0	0
N44+L K44GC LIC	AZTEC, NM	0	0
N44nL K44DD LIC	CHAMA, NM	0	0
N58+L K58HO CP	ANETH, UT	0	0
N58zL K58CJ LIC	PAGOSA SPRINGS, CO	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K43AB LIC	GRAND JUNCTION,, CO	508	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
D43 KPXC-TV CP	DENVER, CO	0	0
N42nL K42EV LIC	GLENWOOD SPRING, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nA K27FA CP	CRAIG, CO	0	0
N43nA K43AE LIC	MYTON, ETC., UT	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43EV LIC	EMERY, UT	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43nL K43JF CP	MANTI/EPHRAIM, UT	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43JI CP	SNOWMASS VILLAG, CO	0	0
N44+L K44DF CP	EAGLE, ETC, CO	0	0
N44-L K44CA LIC	CIMARRON CREEK,, CO	0	0
N44nL K44AC LIC	RIO BLANCO VALL, CO	0	0
N58nL K58AA LIC	CRYSTAL, ETC., CO	0	0
N58nL K58BV LIC	PAONIA, CO	0	0
N58nL K58EF LIC	STADTMAN MESA, , CO	0	0



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N43nL K43AH LIC	CRESTED BUTTE, , CO	944	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
D43 KPXC-TV CP	DENVER, CO	0	0
N42nL K42EV LIC	GLENWOOD SPRING, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nA K27FA CP	CRAIG, CO	0	0
N43nL K43AB LIC	GRAND JUNCTION,, CO	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43zA K43EM CP	CHEYENNE, WY	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N44+L K44DF CP	EAGLE, ETC, CO	0	0
N44-L K44CA LIC	CIMARRON CREEK,, CO	0	0
N44zL K44CI LIC	SALIDA, ETC., CO	0	0
N58nL K58AA LIC	CRYSTAL, ETC., CO	0	0
N58nL K58BV LIC	PAONIA, CO	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K43DL LIC	ZUNI, NM	2,433	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N43+L K43CN LIC	DUNCAN, AZ	0	0
N43+L K67AB CP	GLOBE-MIAMI, AZ	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43zL K43GQ LIC	KLAGETO, AZ	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N44-L K44GD LIC	CROWNPOINT, NM	0	0
N44zL K44BB LIC	WINDOW ROCK, AZ	0	0
N58+L K58HX CP	SHEEP SPRINGS, NM	0	0



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Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K43EG LIC	PITKIN, CO	132	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
D43 KPXC-TV CP	DENVER, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nA K27FA CP	CRAIG, CO	0	0
N43nL K43AB LIC	GRAND JUNCTION,, CO	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43nL K58DW CP	TAOS, NM	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N43zL K43JI CP	SNOWMASS VILLAG, CO	0	0
N44-L K44CA LIC	CIMARRON CREEK,, CO	0	0
N44zL K44CI LIC	SALIDA, ETC., CO	0	0
N58nL K58AA LIC	CRYSTAL, ETC., CO	0	0
N58nL K58BV LIC	PAONIA, CO	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K43FI LIC	LAS VEGAS, NM	19,145	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43BT LIC	CARRIZOZO-TULAR, NM	0	0
N43nL K43BU LIC	CLOVIS, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43nL K58DW CP	TAOS, NM	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N44zL K44HO CP	ESPANOLA, NM	0	0
N58nL K58DW LIC	TAOS, NM	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K43HW LIC	ALBUQUERQUE, NM	471,927	6,678	1.42	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
D42 KLUZ-TV CP	ALBUQUERQUE, NM	6,678	6,678
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43BT LIC	CARRIZOZO-TULAR, NM	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43nL K43FI LIC	LAS VEGAS, NM	0	0
N43nL K58DW CP	TAOS, NM	0	0
N43zL K43GQ LIC	KLGETOH, AZ	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N44zL K44HJ LIC	SOCORRO, NM	0	0
N44zL K44HO CP	ESPANOLA, NM	0	0



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N43nL K43IN CP	BLANDING/MONTIC, UT	0	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N42nL K42AD LIC	BLANDING/MONTIC, UT	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nA K43AE LIC	MYTON, ETC., UT	0	0
N43nL K43AB LIC	GRAND JUNCTION,, CO	0	0
N43nL K43DY LIC	RURAL GARFIELD , UT	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43EV LIC	EMERY, UT	0	0
N43nL K43IJ LIC	WAYNE COUNTY (R, UT	0	0
N43nL K43JF CP	MANTI/EPHRAIM, UT	0	0
N43zL K43GQ LIC	KLAGETOH, AZ	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43IO CP	BRIAN HEAD, UT	0	0
N43zL K43JI CP	SNOWMASS VILLAG, CO	0	0
N44nL K44AG CP	BLANDING, ETC., UT	0	0
N58+L K58HO CP	ANETH, UT	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43nL K58DW CP	TAOS, NM	17,225	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43BU LIC	CLOVIS, NM	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43FI LIC	LAS VEGAS, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N44nL K44DD LIC	CHAMA, NM	0	0
N44zL K44HO CP	ESPANOLA, NM	0	0
N58nL K58DW LIC	TAOS, NM	0	0



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Protected station		Base Pop	IX Change	%Base	Unique IX
N43zL K43GQ LIC	KLGETOH, AZ	139	0	0.00	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N43+L K43IE LIC	WILLIAMS, ETC., AZ	0	0
N43+L K67AB CP	GLOBE-MIAMI, AZ	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0
N44-L K44GD LIC	CROWNPOINT, NM	0	0
N44zL K44BB LIC	WINDOW ROCK, AZ	0	0
N58+L K58HX CP	SHEEP SPRINGS, NM	0	0

Protected station		Base Pop	IX Change	%Base	Unique IX
N43zL K43GT LIC	PAGOSA SPRINGS, CO	2,234	34	1.52	0

Interfering station		Total IX	Unique IX
N43zL K43AI NEW	FARMINGTON, NM	0	0
N42nL K42DI LIC	BAYFIELD/IGNACI, CO	0	0
N43-L K43JS CP	DURANGO, CO	0	0
N43nL K43AB LIC	GRAND JUNCTION,, CO	0	0
N43nL K43DL LIC	ZUNI, NM	0	0
N43nL K43EG LIC	PITKIN, CO	0	0
N43nL K43FI LIC	LAS VEGAS, NM	0	0
N43nL K43HW LIC	ALBUQUERQUE, NM	0	0
N43nL K43IN CP	BLANDING/MONTIC, UT	0	0
N43nL K58DW CP	TAOS, NM	0	0
N43zL K43CG LIC	COLORADO SPRING, CO	0	0
N43zL K43GQ LIC	KLGETOH, AZ	0	0
N43zL K43GW LIC	RATON, ETC., NM	0	0
N43zL K43JI CP	SNOWMASS VILLAG, CO	0	0
N44+L K44GC LIC	AZTEC, NM	0	0
N44nL K44DD LIC	CHAMA, NM	0	0
N58zL K58CJ LIC	PAGOSA SPRINGS, CO	34	34



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Protected station		Base Pop	IX Change	%Base	Unique IX
N44+L K44GC LIC	AZTEC, NM	20,506	0	0.00	0
Interfering station		Total IX	Unique IX		
N43zL K43AI NEW	FARMINGTON, NM	0	0		
N43-L K43JS CP	DURANGO, CO	0	0		
N43zL K43GT LIC	PAGOSA SPRINGS, CO	0	0		
N44+L K44DF CP	EAGLE, ETC, CO	0	0		
N44-L K44CA LIC	CIMARRON CREEK,, CO	0	0		
N44-L K44GD LIC	CROWNPOINT, NM	0	0		
N44nL K44AG CP	BLANDING, ETC., UT	0	0		
N44nL K44DD LIC	CHAMA, NM	0	0		
N44zL K44BB LIC	WINDOW ROCK, AZ	0	0		
N44zL K44CI LIC	SALIDA, ETC., CO	0	0		
N44zL K44HJ LIC	SOCORRO, NM	0	0		
N44zL K44HO CP	ESPANOLA, NM	0	0		
N45nL K45CU LIC	SHIPROCK, NM	0	0		
N45nL K45DH LIC	DURANGO, CO	0	0		

Note:

The results of the OET-69 algorithm are dependent on the use of computer databases and complex software algorithms, which may vary between computer platforms and installations. Also, while Hammett & Edison, Inc. endeavors to follow official releases and established precedents on the matter, FCC policy on DTV analysis methods changes from time to time. Thus, the results of OET-69 interference and coverage studies are subject to change and may differ from FCC results.

