

TV6 Calculation for Millersburg, OR

TV6 Call sign
KOIN

Fcc Search
57.1 dBu

City
Portland

State
OR

COR AMSL (m)
581

HAAT (m)
490.5

Latitude
453058

Longitude
1224358

+

TV ERP (kW)
100.000

FM Horizontal ERP
0.025

☒ Outside City Of 50k

52

59

1

TV

FM

Plot Scale
1500

☐ DLG ☐ AJPI

☒ Hide Zeros ☒ TIGER

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

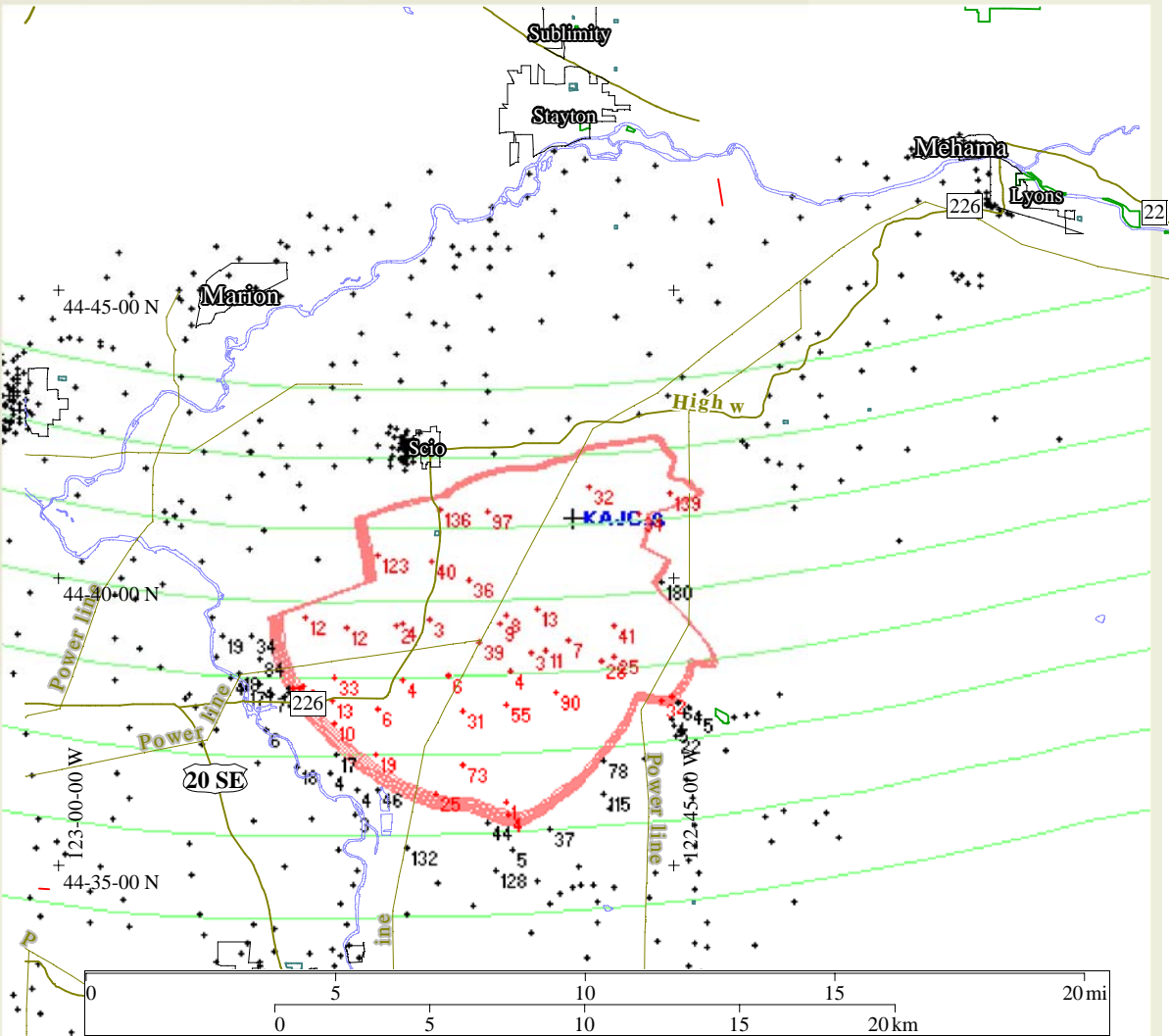
Comp

Cov F

Cov I

PrintText

Print Form



Channel Six TV Protection Study

KOIN 06 100.000kW ERP 581.0M COR AMSL 490.5M HAAT Lat. 453058 Lon. 1224358
KAJC.A 211 1.159kW ERP 379.0M COR AMSL 172.0M HAAT Lat. 444100 Lon. 1224654

Distance from TV to FM 92.6286km Azi 2.4degr Rev Azi 182.4 degr
Cutoff radius for channel 211 is 196 km

The FM horizontal polarization component is 0.025 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pv/40+Ph) 0.0540kW

The TV6 signal strength at the FM transmit site is 57.1 dBu
This strength is outside the 68 dBu Grade A contour,
allowing a 6 dB bonus to be applied to the allowable FM signal
to F centroids (centroids in the angles between the FM station and the TV station)

TV Contour	Undesired/Desired Ratio	Total	Directional Total
52	14.1	66.1	72.1
53	13.2	66.2	72.2
54	12.2	66.2	72.2
55	11.3	66.3	72.3
56	10.5	66.5	72.5
57	9.6	66.6	72.6
58	8.7	66.7	72.7
59	7.8	66.8	72.8

Population in affected area 1307