

TV6 Calculation for Weston, OH

TV6 Call sign
WSYX

Fcc Search
31.3 dBu

City
Columbus

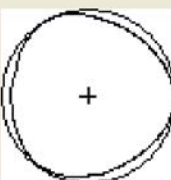
State
OH

COR AMSL (m)
522

HAAT(m)
286

Latitude
395616

Longitude
830116

TV ERP (kW)
100.000

FM Horizontal ERP
7.826

☒ Outside City Of 50k

47

47

1

TV

FM

Plot Scale
150

☒ DLG ☐ AJPI

☒ Hide Zeros

☒ 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

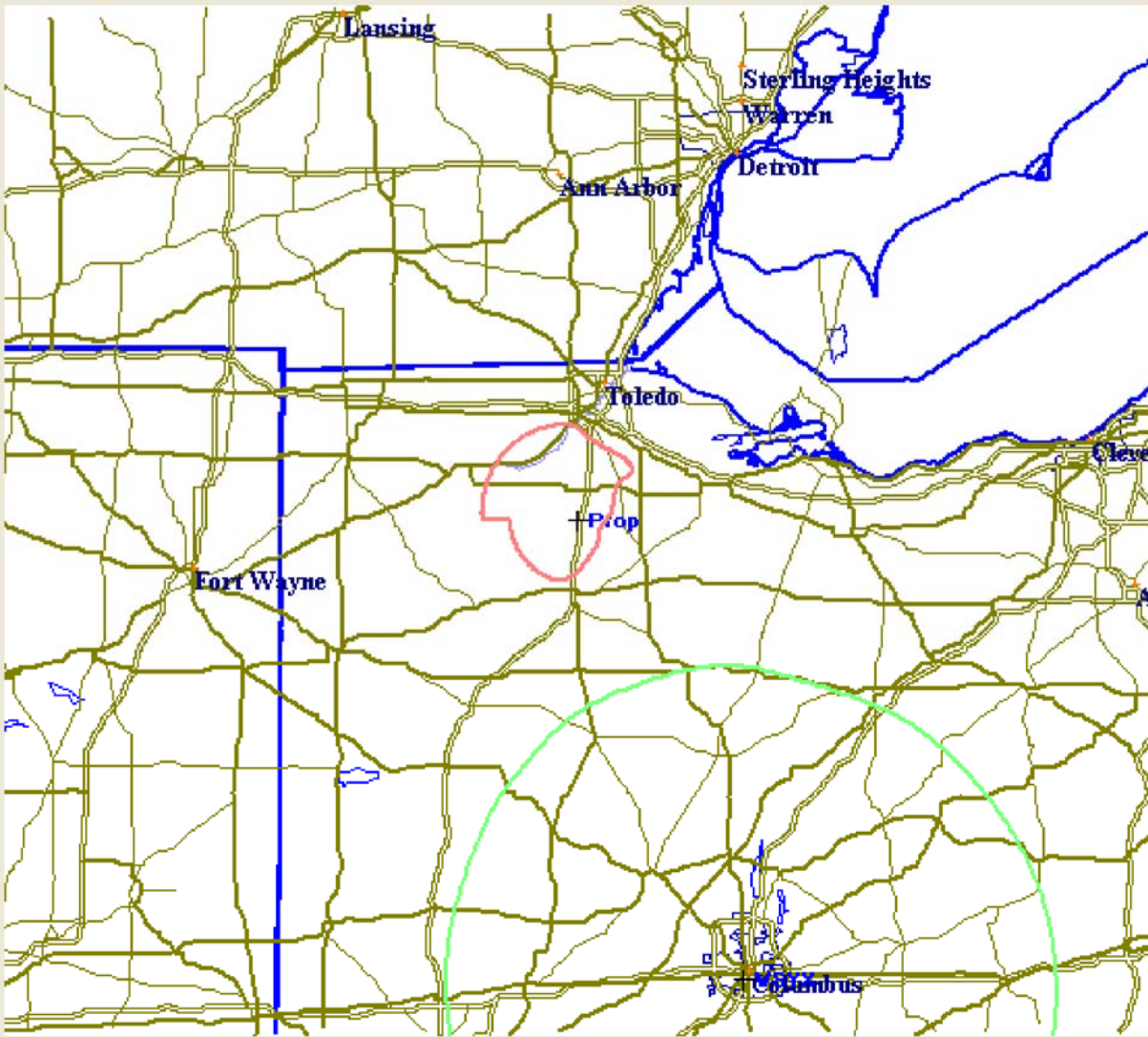
Comp

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Print Form



Channel Six TV Protection Study

WSYX	06	100.000kW ERP	522.0M COR AMSL	286.0M HAAT	Lat. 395616	Lon. 830116
Prop	205	7.826kW ERP	285.0M COR AMSL	77.4M HAAT	Lat. 411611	Lon. 833943

Distance from TV to FM 157.5366km Azi 159.9degr Rev Azi 339.9 degr
Cutoff radius for channel 205 is 225 km

The FM horizontal polarization component is 7.826 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pw/40+Ph) 8.0217kW

The TV6 signal strength at the FM transmit site is 31.3 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
47	12.1	59.0	65.0

Population in affected area 0