


## TV6 Calculation for Weston, OH

TV6 Call sign:  Fcc Search:

City:  State:

COR AMSL (m):  HAAT(m):

Latitude:  Longitude:

 TV ERP (kW):

FM Horizontal ERP:

☒ Outside City Of 50k

TV  
FM

Plot Scale:  ☒ DLG ☐ AJPI

☒ Hide Zeros ☒ TIGER

☐ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

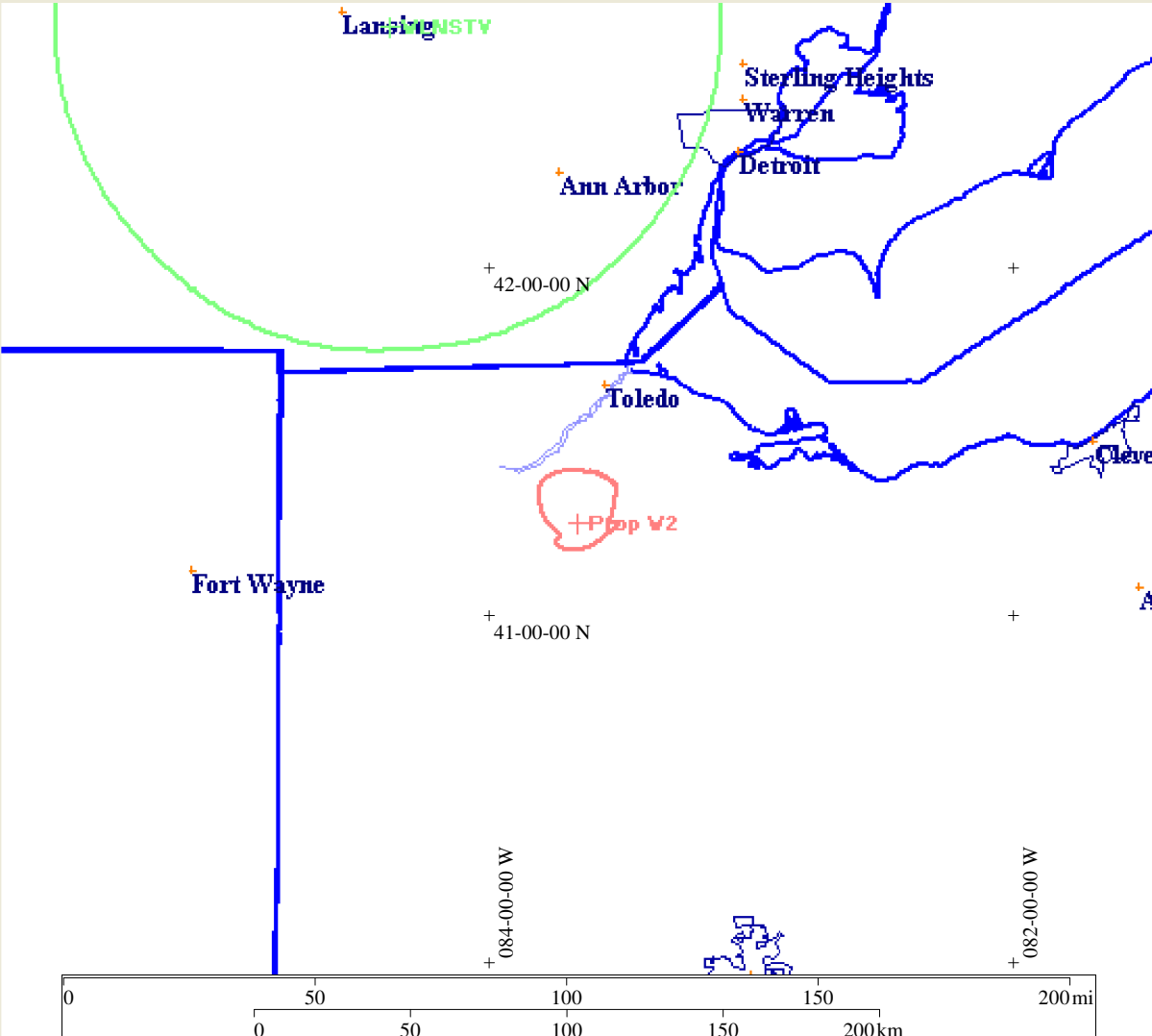
☒ Plot Contours

☐ Print All Centroids to  dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp:   PrintText:



## Channel Six TV Protection Study

WLNSTV	06	100.000kW	ERP	575.0M	COR	AMSL	305.0M	HAA	T	Lat.	424119	Lon.	842235
Prop W	205	3.000kW	ERP	285.0M	COR	AMSL	77.4M	HAA	T	Lat.	411611	Lon.	833943

Distance from TV to FM 168.3547km    Azi 339.4degr    Rev Azi 159.4 degr  
Cutoff radius for channel 205 is 225 km

The FM horizontal polarization component is 3.000 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40+P_h)$  3.0750kW

The TV6 signal strength at the FM transmit site is 29.817 dBu  
For F centroids (centroids where the TV6 signal strength is less than 68 dBu and  
which are also +/-70 degrees from line from the FM station to the TV station)  
a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional	Total
47	12.1	59.0	65.0	

Population in affected area	0
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2000 Block Centroids used