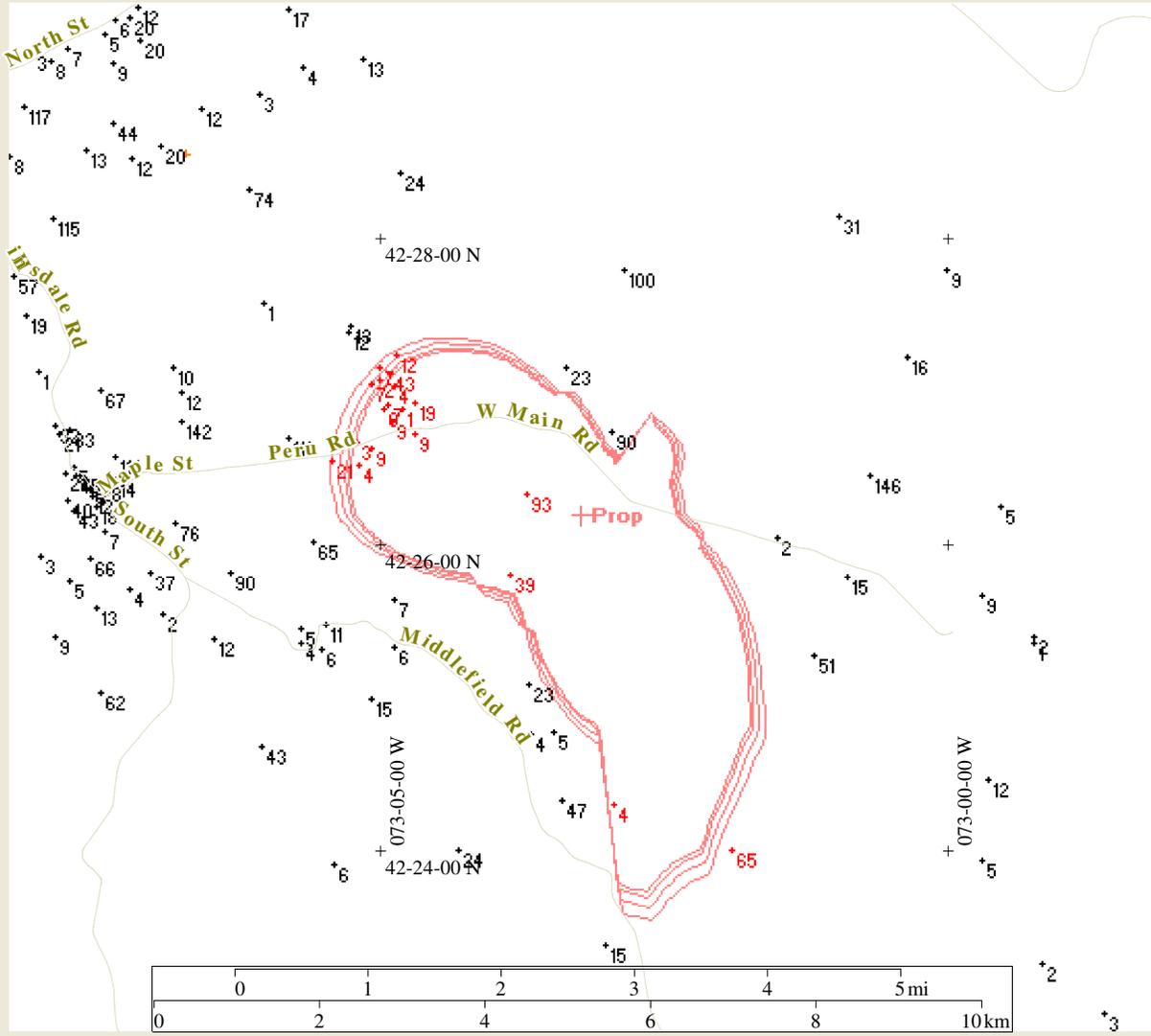


# TV6 Calculation for Dalton, MA

TV6 Call sign: WRGB  
 FCC Search: 58.3 dBu  
 City: Schenectady, State: NY  
 COR AMSL (m): 650, HAAT(m): 392  
 Latitude: 423731, Longitude: 740038

TV ERP (kW): 30.200  
 FM Horizontal ERP: 0.160

Outside City Of 50k  
 Plot Scale: 4000  
 DLG,  AJPI,  TIGER  
 Plot All Centroids  
 Plot Inside Centroid Counts  
 Plot All Centroid Counts  
 Plot Contours  
 Print All Centroids to: -15 dBu  
 Print Centroids  
 Print TV Contour Table  
 Comp:  Cov F,  Cov I,  Print Text,  Print Form



**Channel Six TV Protection Study**

WRGB	06	30.200kW ERP	650.0M COR AMSL	392.0M HAAT	Lat. 423731	Lon. 740038
Prop	219	0.160kW ERP	776.0M COR AMSL	298.1M HAAT	Lat. 422611	Lon. 730314

Distance from TV to FM 81.3534km Azi 284.9degr Rev Azi 104.9 degr  
 Cutoff radius for channel 219 is 159 km

The FM horizontal polarization component is 0.160 kW,  
 and the area of just perceptible interference does not intersect a city of 50k,  
 so the effective ERP is (Pv/40+Ph) 0.1640kW

The TV6 signal strength at the FM transmit site is 58.260 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
49	34.0	83.0	89.0
50	32.8	82.8	88.8
51	31.5	82.5	88.5
52	30.2	82.2	88.2

Population in affected area 364

2000 Block Centroids used