

# 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

TV

FM

Plot Scale  
4000

☒ DLG ☐ AJPI

☒ Hide Zeros ☒ TIGER

☐ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to 

-15

 dBu

☐ Print Centroids

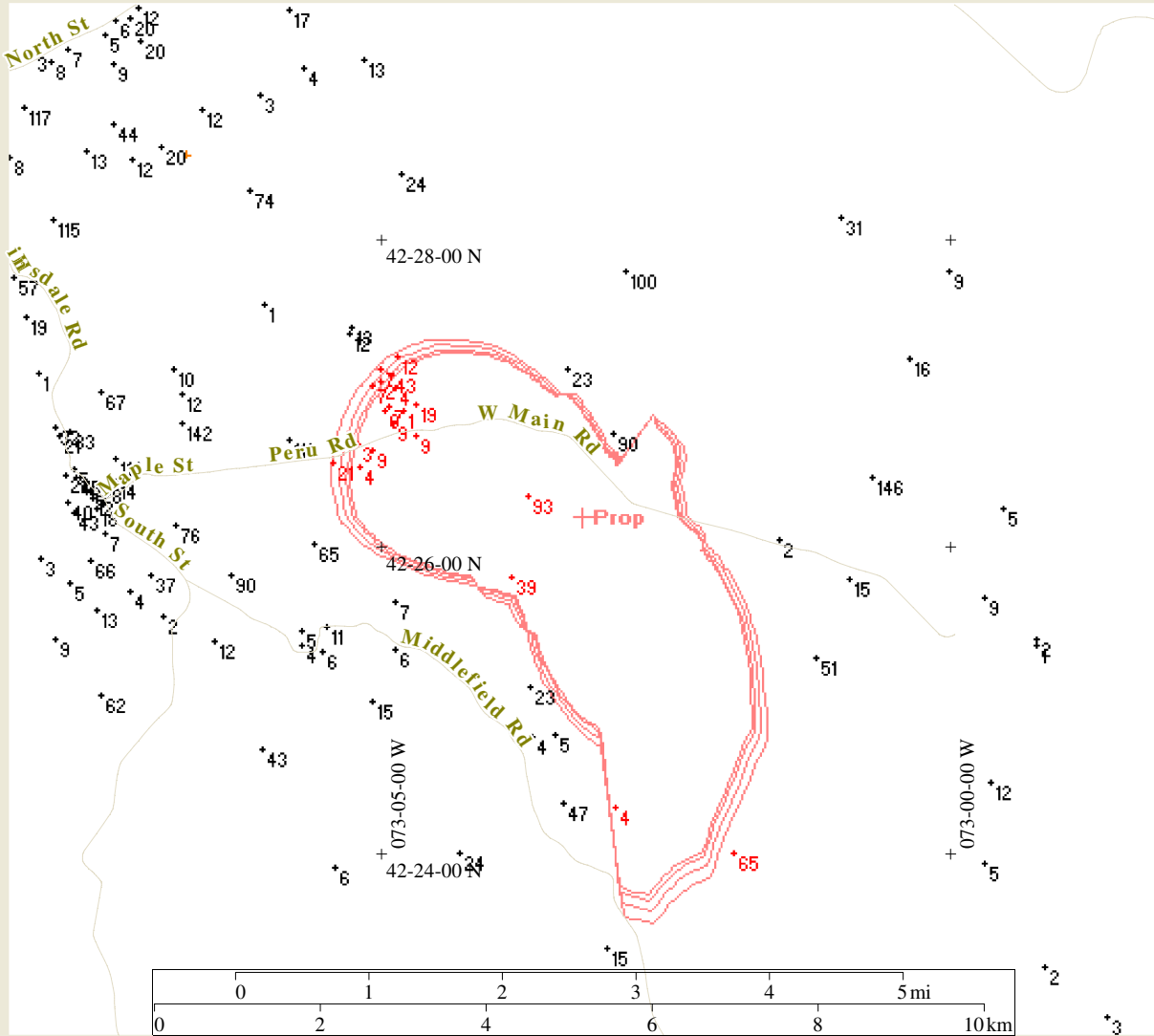
☒ Print TV Contour Table

Comp 

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## 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