

KGVL
Hunt County Radio, LLC
1517 Wolfe City Drive
Greenville, Texas 75401

*answered
4/28/14
KPN*

I have often wondered why your signal gets weaker at night. So I went to the FCC AM Query Broadcast Station Search at; <http://transition.fcc.gov/fcc-bin/amq?freq=530&fre2=0&facid=21598&list=0&size=9> .

Below is what I found.

KGVL TX GREENVILLE USA Unlimited

Licensee: HUNT COUNTY RADIO, LLC

1400 kHz **Licensed**
Domestic Station Class: C Region 2 Station Class (corresponds to W. Hemisphere): C
Coordination Status: Canada: - Mexico: - Region 2: -
File No: BL-- Facility ID No.: 21598
CDBS Application ID No.: 313650

33° 10' 2.00" N Latitude Power: 1.0 kilowatts (kW) **Unlimited**
96° 05' 55.00" W Longitude (NAD 27)

ND1 - Non-directional Antenna: Same constants day and night

RMS Standard: 0.00 mV/m at 1 kilometer
RMS Theoretical: 305.78 mV/m at 1 kilometer

1 tower CDBS Ant. System ID: 21073

Tower information:

Tower No.	Field Ratio	Phase (deg)	Spacing (deg)	Orientation (degrees)	Electrical Height (deg)	Twr Ref. (#)	-No Top Loaded or Sectionalized Tower(s)- (#)	A	B	C	D	Antenna Structure Registration Number
1	1.000	0.00	0.00	0.00	92.20	0	0	0.00	0.00	0.00	0.00	

Approximate Sunrise & Sunset Times => [Central](#) time zone

CDBS: [Station Info](#) [Application Info](#) [Mailing Address](#) [Assignments and Transfers](#)
[Application List](#) [CDBS Search Page](#) [Ownership Info](#) [EEO](#) [Call Sign Changes](#)
Correspondence for [KGVL](#) [Correspondence for application BL--](#)

ULS: [Related facilities in ULS](#)
[ASRNs within 0.5 km radius](#)

History Cards for KGVL: [PDE](#) - Document may take a few moments to display.

[Previous Record](#) -- [Next Record](#)

This tells me "Same constants day and night 1.0 kilowatts, unlimited". And I know that AM broadcast signals do carry farther during the nighttime hours, which many AM stations are licensed for different powers or pattern plots to reduce interference with other broadcast stations.

Now KPYK Terrell has these restrictions, 0.27kw daytime and 0.006kw night and I can receive them in Bonham, Texas. Being as I live in Cash, I should receive your signal strong day and night, being almost 4 times their daytime signal which I receive strong. When I go all the way to downtown Quinlan at night your signal is so weak it is full of static.



April 28, 2014
Mr. Tom Rosenbeck
786 Signal Road
Quinlan, TX 75474

Dear Mr. Rosenbeck

Thank you for your recent letter. It isn't often we receive letters these days, but when we do, I try to respond to them.

Regarding 1400 KGVL, the signal strength remains the same both day and night. It does run with 1 kw (1,000 watts) full time.

There are a couple of contributors to the signal 'issues' at night for AM stations. One of them is the 'sky wave' or signals that 'bounce' in to the listening area from far away places during evening hours. The sky wave starts to impact listening quality about an hour before sunset through an hour after sunrise – during normal conditions. All AM stations are impacted by this phenomenon; some more than others.

KGVL operates on 1400 kHz (so called local channel) and has over 100 co-inhabitants on the channel. During nighttime hours several of the co-inhabitants come bouncing in, causing a raise in noise on the frequency. This sky-wave often limits local channel stations to very small interference free nighttime coverage areas.

Adding to the skywave issue is that of manmade interference. The increase in solid state lighting (non incandescent) has really effected listening quality for AM radio at night. Neon doesn't help much either.

Adding insult to injury is the interference radiated by some older televisions. Often the combination of these items plus the co-channel skywave mentioned above restricts AM listening to the 10 or 15 millivolt contour. I haven't measured the signal in Quinlan for KGVL, but believe the station delivers just under 5 millivolts/meter in the area.

You can appreciate what an uphill battle AM radio is at night (& in the home). That challenge has resulted in the band being largely used for mobile listening in cars.

Thanks for your interest in the stations.

Kind regards,

Hubert (Hue) Beavers
Manager