

# A New Look at Daytime DX

A Synopsis of Daytime DX From Provo, Utah

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Many articles have appeared in the last few years about daytime DX. Almost all of these articles have dealt with daytime DX from coastal or near coastal locations, with no particular mention of daytime DX at truly inland locations. It is well known that signals can travel long distances in coastal areas along the water because of salt water's high groundwave conductivity. Signals also do well in the midwest because of the fairly good groundwave conductivity there. (It's interesting to note that KFYR-550 claims to have the largest daytime coverage in the U.S.) On the other hand, desert areas such as Utah have notoriously poor groundwave conductivity, so daytime signals aren't supposed to get out too well, right? WRONG.

Long distance reception from stations is just as possible and daytime DX can be just as good in the so-called "poor daytime DX locations" like Utah as they are in coastal areas where daytime DX has been given so much praise. At my former Utah location, for example, I heard 234 total stations (not counting about 20 call changes) from 3 countries, 4 provinces, and 24 states, all during the day.

As crazy as it seems at first, I think perhaps the most significant reason I found daytime DX to be so good in Utah is the lack of close locals on a majority of channels. According to my calculations, there are less than 50 stations within 150 miles of Provo. This makes for quite a few open channels, with good targets possible. Some channels have good targets in several directions. For example, 1570 and 1510, not having stations within 300 miles, yielded six and three stations, respectively. But with a new local, KZZI, now on 1510, any potential targets will now be covered up.

Another contributing factor was my extensive use of Beverage antennas. While stations I received only on Beverage antennas do not represent the majority of my daytime catches, most of my best catches occurred only via this mode. Bruce Portzer and I, while using a Beverage antenna near Heber City, heard no less than 225 signals (not all IDable) in the daytime, including WLS and WCCO. The most surprising catch was KAGO-1150 in Klamath Falls, Oregon.

Most of my long distance catches were not made by groundwave, but by sky-wave. It is well-known that in the winter the ionosphere is still able to reflect at least some signal during the daytime, especially at the high end of the band. So it is obvious that good groundwave conductivity is not necessary for great daytime DX. (Although some of my daytime DX, like KFI and KFMB obviously did come via groundwave). Perhaps the factor that contributes to the success of daytime DX at coastal locations is not necessarily the great conductivity of sea water (though important), but more because of the fact that there are fewer local stations to contend with at the coastal locations that DXers find so good.

So in summary, although groundwave DX can be good at a coastal site, great daytime DX is not exclusive to those areas of good groundwave conductivity. Any comments by other DXers would be appreciated.

The following is a compilation of the daytime DX heard by me in Provo, Utah and the area within a 25 mile radius of Provo from September 1979 to December 1982. For the purposes of this article, a daytime reception is defined as a reception made between two hours after local sunrise and two hours before local sunset. The underlined calls mean that the station was heard only on a Beverage antenna.

521 "INE", only heard at home once or twice  
540 KNAK semi-local. CBK and KNMX on Beverages  
550 KRAI regular. KOY once or twice.  
560 KSFO, usually poor.  
570 KIUB local.  
580 KFXD fair. KMJ poor w/KFXD nummed.  
590 KSUB fair. KID poor with KSUB nulled.  
600 KCLS & KOGO co-dominant. KIIX & KSJB fair on Beverages.  
610 KVNU semi-local. KPRC occasionally w/KVNU nulled.  
620 KSTR fair  
630 KZJO local, KIDO once during Utah power blackout.  
640 KFI fair

650 Provo HS driving range, 100mw, now on 700. Fair at 2 miles.  
660 Pioneer drive-in  
670 KBOI good.  
680 KFAM (ex-KYD981) local. KNBR with KFAM nulled. CJOB.  
690 Excellent daytime channel with 6 stations: KEOS KBLI KHEY CBU XETRA and CBKF1.  
700 WLW tentative once. Also 3 high school driving ranges.  
710 KFIA & KMPC usually, KIRO occasionally. KERE.  
720 KDWN good.  
730 KSVN local. KDAZ & KLOE once each.  
740 KBRT oddly the best with KCBS & KVFC not far behind. CBX on north Beverage.  
750 XXL occasionally in winter. KMMJ often good.  
760 KFMB poor.  
770 KOB poor at home, good on Beverage.  
780 KAZM & KROW both fairly good.  
790 KABC KUTA KSPD KGHL in order of reception.  
800 KBUH semi-local, but XEROK heard on Beverage.  
810 KGO & KWSR co-dominant. CHQR on north Beverage.  
820 WBAP once without a Beverage.  
830 WCCO  
840 nothing  
850 KOA all year. KTAC winter only. CKRD on Beverage.  
860 KWHO local. CBKF2 only on N. Beverage,  
870 KIEV at home a few times. WWL just a few times.  
880 KRVN, a winter pest at times.  
890 WLS my best positive ID.  
900 Oddly KBIF was heard frequently. CJVI & CKBI at times on Beverage.  
910 KALL local  
920 KVEL semi-local  
930 KSEI semi-local.  
940 KBRE semi-local.  
950 KMER fair in KDOT slop.  
960 KDOT local.  
970 KAYT poor in KDOT slop. KVWM once with KDOT off. KOOK usually on Bev.  
980 KSVC semi-local. Also KGLN & KFWB at times.  
990 KTLE local. CEW occasionally.  
1000 KOMO w/good NW cx.  
1010 CBR & KCMP a good mix.  
1020 KTNQ & KBCQ fair at times.  
1030 KTWO of course.  
1040 WHO good.  
1050 KTBA only fair. CJNB surprisingly strong at times.  
1060 KRSP local. CFCN a few times.  
1070 KNX poor-fair. KERR once or twice.  
1080 KRPX local.  
1090 KANN local with XEPRS KBOZ CHEC & KLDR at times.  
1100 KREX fair-good. KSL translator at BYU Marriott Center.  
1110 KHAC only once at home. KFAB & CHQT occasionally.  
1120 KPNW barely audible. KMOX sometimes there, rradable but poor.  
1130 CKWX surprisingly good. KSDO occasionally. KBMR in almost every time I tried.  
1140 KMJJ the super pest, KGEM also there. KMMZ good at times.  
1150 KSEN & KIMM the usual dominants when the Beverage went up. CKX also at times. KAGO was a surprise when bp and I heard it last fall.  
1160 KSL, no comment.  
1170 KVOO KUAD & CKGY have all had their turns on Beverages.  
1180 KOFI strong w/good northern cx. KWSO at times.  
1190 KRDS usually held the fort down. CFSL & KADE at times good.  
1200 WOAI was the best until KPNW came along.  
1210 KCLG poor semi-local with KGYN before KCLG.  
1220 KIBE fair at times. KCCS once on late skip. CKDA once or twice. CJOC & KBNO usual on Beverages.  
1230 KPRQ (now KLAF) local. KOAL when KPRQ nulled.  
1240 KEVA the best with KWIK & KRDO skipping in at times.  
1250 KNEU semi-local. KWSU on late skip.  
1260 KPOW & KTEE. CFRN good a couple of times.  
1270 KTLC poor, sometimes fair, but always there. KDJI sometimes on late skip.  
1280 KDYL local with KIT popping in at noon once.  
1290 KZBQ the usual dominant with KHSL KGVO KUMA & KOWB.  
1300 KVOR & KPTL fair on midday skip a few times.  
1310 KLIX fair usually. KPKA only occasionally.  
1320 KCPX (now KEUG) local.  
1330 KGAK & KOVE fair on skip.  
1340 KMTI was dominant before moving to 1590. KLVR then the best. KQIL KVRH KYLT & KSGT were heard between the time KLVR moved & KLVR came on.

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- 1350 KIDN the only one to make it in due to KFTN-1400/KEYY-1450 mix.  
1360 KRKK a super pest!  
1370 Although KSOP is a local, KXLF CJWW & CFOK made it through.  
1380 Only KSRV & KOTA.  
1390 KBLQ semi local  
1400 KFTN local  
1410 CFUN on late skip. KCOL & KWYO quite often.  
1420 KUJ & KSTN on midday skip. CJVR made it a few times.  
1430 KLO local. KEZW good.  
1440 KRDZ the only one heard.  
1450 KEYY local. KURA mixed in on some Beverages.  
1460 KYSN the usual pest with KDON & CJMH occasionally.  
1470 KBXN a local, but KAZM was fair before moving to 780.  
1480 KONI local  
1490 KJQN semi-local. KUGR the Beverage pest.  
1500 KXRY (now KHTT) & KSTP late skip on Beverage only.  
1510 KGA & KDJQ fair some mornings. KDKB good at times. This could be all for naught with KZZI now here  
1520 KACY a late skipper in winter. Also KYXI. KOMA once or twice.  
1530 KFBK all day at times. KUUY a Beverage visitor.  
1540 KPOL (Now KZLA) another late visitor at home in the winter with KXEL seeming to like the Beverage antennas.  
1550 only local KRGO.  
1560 KPMC on daytime skip. Also KKAA.  
1570 An interesting channel with KMAY KLOV KCVR KHNY CKLQ & CHUB all coming in at home.  
1580 KNIX a super pest at times in the winter  
1590 KMTI semi-local  
1600 KBBX local with KLAT & KVRD heard when KBBX's transmitter burned down.  
1610 Only the extinct TIS in American Fork Canyon.