


# Washington County ARES/RACES Packet Radio System

~~UPDATED~~ version 9/3/2006

<p><b>Slow Scan TV Net</b>  <b>Packet Training Net</b>  <b>APRS Training Net</b>                  146.90 MHz repeater                  Every Tuesday at 8:00 p.m. local time with the exception of meeting nights, which are the third Tuesday of each month.</p>	<p>Our standard terminal software is <a href="#">paKet 6.2</a>.</p> <p>Our standard BBS software is <a href="#">WORLD SNOS</a>.</p> <p>Twice a year Packet Drill Information-  <a href="#">Click here to download</a> </p>
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<b>Software Section</b> <del>UPDATED</del>		
<a href="#">Standard terminal software paKet 6.2</a>	<a href="#">Standard BBS software WORLD SNOS</a> <del>UPDATED</del>	<a href="#">AX.25 Amateur Packet-Radio Protocol Version 2.2, 11/1997</a>
<a href="#">Call Sign Server Info.</a> <a href="#">FCC Call Server Database</a> <del>UPDATED</del> <a href="#">Canadian Call Server Database</a> <del>UPDATED</del>		
<a href="#">Using Windows HyperTerminal for Packet Radio</a>		
<b>Hardware Section</b> <del>UPDATED</del>		
<a href="#">Equipment Manuals &amp; Software</a>	<a href="#">Kantronics TNC Wiring - 1200 plus 9600 on the same cable</a>	<a href="#">Kantronics Host Mode Exit</a>
<a href="#">Report on BER ratings for 9600 baud radios</a>		<a href="#">OpenHSMM</a> <del>UPDATED</del>
<b>Links Section</b> <del>UPDATED</del>		
<a href="#">Northern Oregon Amateur Packet Radio Association</a>	<a href="#">Buck Rogers - K4ABT Packet Radio Page</a> Wiring Diagrams Plus lots more	<a href="#">KA7EHK Packet Webpage</a>
<a href="#">Amateur Digital Radio- NB6Z</a>	<a href="#">WB9LOZ Packet Information Page</a>	

<b>Drill Section</b> <del>UPDATED</del>		
<b>Twice Annual Packet Drill Information-</b> <a href="#">Click here to download</a> 		
<b>Information Section</b> <del>UPDATED</del>		
<a href="#">Served Agency Packet Station</a>	<a href="#">Packet Frequencies</a> <del>UPDATED</del>	<a href="#">Packet Standard Message Format</a>
<a href="#">Network Map</a>	<a href="#">Operating Protocols and Standards</a>	<a href="#">ORRC Oregon Packet Frequencies</a>
<a href="#">List of SNOS BBS stations</a>	<a href="#">Digital Mode Sound Samples</a> <del>UPDATED</del>	

### Served Agency Packet Stations

<b>Hub Station</b>	<b>Served Stations</b>
<b>BBS - Operational</b> <b>WC7EOC - Washington County EOC</b> <b>W0RLI SNOS BBS</b> <b>WCBBS:WC7EOC</b> <b>WCEOC:WC7EOC-1</b> <b>Operates 24/7 with emergency power</b> <b>144.94 @1200 baud</b> <b>434.00 @9600 baud</b>  WC7EOC@WC7EOC.OR.USA.NOAM	<b>W7LUT - Washington County Land Use and Transportation, Walnut St., Hillsboro</b> <b>Operates 24/7 with emergency power</b> <b>144.94 @1200</b> W7LUT@WC7EOC.OR.USA.NOAM <hr/> <b>KD7RFD - City of Tualatin</b> <b>144.94 @1200</b> KD7RFD@WC7EOC.OR.USA.NOAM <hr/> <b>KD7RFC - City of Sherwood</b> <b>144.94 @1200</b> KD7RFC@WC7EOC.OR.USA.NOAM <hr/> <b>KD7RFG - City of Tigard</b> <b>144.94 @1200</b> KD7RFG@WC7EOC.OR.USA.NOAM <hr/> <b>K7HIO - City of Hillsboro EOC</b> <b>W0RLI SNOS BBS</b> <b>HIOBBS:K7HIO</b> <b>HIONOD:K7HIO-1</b>

	<p><b>Operates 24/7 with emergency power 434.00 (9600) only</b></p> <p>Kenwood TM-251A Kenwood TM-V7A S#81000362 Kantronics 9612 Plus S#12K06-0004</p> <p>SNOS BBS PC P166/2.4GB/CDR/16MB/ DOS 6.22 with KVM switch and optical mouse(On loan from N7QQU) Windows BBS PC - Compaq Win98SE</p> <p>K7HIO@K7HIO.OR.U.S.A.NOAM</p> <hr/> <p><b>W7BVT - City of Beaverton EOC W0RLI SNOS BBS BVTBBS:W7BVT BVTNOD:W7BVT-1 434.00 (9600) only W7BVT@W7BVT.OR.U.S.A.NOAM</b></p> <hr/> <p><b>KD7AEQ - Tualatin Valley Fire &amp; Rescue 144.94 @1200 KD7AEQ@WC7EOC.OR.U.S.A.NOAM</b></p>
<p><b>BBS - Operational</b></p> <p><b>KD7REX - Washington County Sheriff's Office, Law Enforcement Center, Hillsboro W0RLI SNOS BBS REXBBS:KD7REX REXNOD:KD7REX-1</b></p> <p><b>145.73 @1200(testing) 434.00 @9600(testing)</b></p> <p><b>KD7REX@KD7REX.OR.U.S.A.NOAM</b></p>	<p><b>KD7RFO - Ronler Fire Station - Hillsboro Alt. EOC paKet 6.2 file server KD7RFO-2 Operates 24/7 with emergency power 145.73 @1200 KD7RFO@KD7REX.OR.U.S.A.NOAM</b></p> <hr/> <p><b>KD7REZ - Banks Fire Department #13 145.73 @1200 KD7REZ@KD7REX.OR.U.S.A.NOAM</b></p> <hr/> <p><b>KD7RFB - Washington County Sheriff's Office- East Precinct Sheriff Station 145.73 @1200 KD7RFB@KD7REX.OR.U.S.A.NOAM</b></p> <hr/> <p><b>K7TCH - Tuality Community Hospital (Hillsboro) Operates 24/7 with emergency power 145.73 @1200 K7TCH@KD7REX.OR.U.S.A.NOAM</b></p> <hr/> <p><b>KD7RFN - Tuality Hospital Forest Grove Operates 24/7 with emergency power 145.73 @1200 KD7RFN@KD7REX.OR.U.S.A.NOAM</b></p>

<p><b>BBS - Operational</b>  <b>KD7RFJ - Providence St. Vincent</b>  <b>(Beaverton)</b>  <b>W0RLI SNOS BBS</b>  <b>PSVBBS:KD7RFJ</b>  <b>PSVNOD:KD7RFJ-1</b></p> <p><b>145.55 @1200(testing)</b>  <b>434.00 @9600(testing)</b></p> <p>SNOS BBS running on Dell laptop  Windows running on Dell Laptop  (2) NIC on loan from N7QQU</p> <p>KD7RFJ@KD7RFJ.OR.U.SA.NOAM  44.116.3.225</p>	
<p><b>BBS - Testing</b>  <b>KD7ZLF - Gaston</b>  <b>W0RLI SNOS BBS</b>  <b>ZLFMB:KD7ZLF</b>  <b>ZLFNOD:KD7ZLF-1</b></p> <p><b>145.55 @1200(testing)</b>  <b>4xx.xx @9600(off the air)</b></p> <p>KD7ZLF@KD7ZLF.OR.U.SA.NOAM  44.116.11.33</p>	<p>All-</p> <p>SNOS BBS PC  PII 233/ 32/ 1.2/ DOS 6.22Alinco DR-135,  Kantronics KPC-9612, 20 Ahr gellcell, 1.5  amp powersupply- (On loan from N7QQU)</p>
<p><b>BBS - Testing</b>  <b>KC7ZBI - Aloha</b>  <b>W0RLI SNOS BBS</b>  <b>ZBIMB:KC7ZBI</b>  <b>ZBINOD:KC7ZBI-1</b></p> <p><b>144.xx @1200(testing)</b>  <b>441.050 @9600(testing)</b></p> <p>KC7ZBI@KC7ZBI.OR.U.SA.NOAM  44.116.11.1</p>	<p>All-</p> <p>SNOS BBS PC  PII 233/ 32/ 1.2/ DOS 6.22 (On loan from  N7QQU)</p>
<p><b>BBS - Operational</b>  <b>N7OGM - Aloha</b>  <b>W0RLI SNOS BBS</b>  <b>ECMMB:N7OGM</b>  <b>ECWASH:N7OGM-1</b></p>	<p>All-</p>

<p>144.98 @1200 434.00 @9600</p> <p>N7OGM@N7OGM.OR.USA.NOAM 44.116.3.?</p>	
<p><b>BBS - Operational</b> N7QQU - Bethany W0RLI SNOS BBS N7QQU N7QQU-1 144.510 @1200 434.000 @9600 441.525 @1200 441.050 @9600 N7QQU@N7QQU.OR.USA.NOAM 44.116.3.65</p>	All-
<p><b>Emergency Mailbox, KNet Node and Washington County APRS - Operational</b> KD7RFI - Helvetia KNet Node - ARWC1:KD7RFI-1 APRS digi KD7RFI-2 MailBox KD7RFI Operates 24/7 with emergency power 145.55 @1200</p>	All
<p><b>Test Node - Operational</b> KD7RFI-11 - WCTEST TheNet X-J4 node MFJ-1270C with MFJ-52 Connect and list MH to display deviation on all stations heard. 145.63 @1200 (moves as necessary)</p>	All
<p><b>APRS Portable Digi - Operational</b> KD7RFI-9 - / alias WIDE1-1 Used for events, drill and training 144.390@1200 (moves as necessary) Digipeats WIDE1-1 packets</p>	All
<p><b>Training TNC - In Development</b> KD7RFF Operates during testing with emergency power 14x.xx@1200 (moves frequency as necessary)</p>	All

## Operating Protocols and Standards

During Drills and Emergencies all stations will monitor the Washington County Net Control - 146.90

All messages will be sent using the [Packet Standard Message Format](#)

On any BBS, address ARES/RACES bulletins to:

Statewide coverage:

ares@or

races@or

District wide coverage:

ares@pdx

races@pdx

Washington County Coverage:

wcares@wcares

.....  
Bulletins forwarded:

PDX

WC

OR

WWA

ARES

RACES

WCARES

.....  
Frequencies used -

1200 Baud

144.94

145.51

145.55

145.73

441.525

9600 Baud-

434.00

.....  
Beacon Text convention for BBSs, Nodes and TNCs-

[call sign] - [location] - [served agency] - [2 m freq]

Set for every 30 minutes

example:

[gstnmb:kd7zlf BBS] [gstnnd:kd7zlf-1 node] in Gaston

145.59 1200 baud

Part of the Washington County ARES/RACES packet system

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TNC settings

myc call-2

myn call-1

myp call

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Setup for reverse forward from TNC to BBS - Controled by BBS

Contact BBS Sysop for details-

pbhold Off

pbrevers on

htext or.usa.noam

*NOTE: Your packet system must stay on the air and on frequency 24/7*

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Setup remote access on all TNCs

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For paKet 6.2

To use for file tranfers:

echo off

xflow off

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**The ORRC Bandplan provides the following frequencies which are reserved for packet operations:**

2 meters	1.3 Meters	0.70 meters
144.910 MHz 10.0 kHz channels Diversity Spaced	223.560 MHz Packet Simplex Channels 20 kHz spacing	440.9750 MHz 12.5 kHz channels Diverity Spaced
144.920 MHz 10.0 kHz channels Diversity Spaced	223.580 MHz Packet Simplex Channels 20 kHz spacing	440.9875 MHz 12.5 kHz channels Diverity Spaced
144.930 MHz 10.0 kHz channels Diversity Spaced	223.600 MHz Packet Simplex Channels 20 kHz spacing	441.0000 MHz 12.5 kHz channels Diverity Spaced
144.940 MHz 10.0 kHz channels Diversity Spaced	223.620 MHz Packet Simplex Channels 20 kHz spacing	441.0125 MHz 12.5 kHz channels Diverity Spaced
144.950 MHz 10.0 kHz channels Diversity Spaced	223.640 MHz Packet Simplex Channels 20 kHz spacing	441.0250 MHz 12.5 kHz channels Diverity Spaced
144.960 MHz 10.0 kHz channels Diversity Spaced	223.660 MHz Packet Simplex Channels 20 kHz spacing	441.0375 MHz 12.5 kHz channels Diverity Spaced
144.970 MHz 10.0 kHz channels Diversity Spaced		441.0500 MHz 12.5 kHz channels Diverity Spaced
144.980 MHz 10.0 kHz channels Diversity Spaced		441.0625 MHz 12.5 kHz channels Diverity Spaced

144.990 MHz 10.0 kHz channels Diversity Spaced	223.680 MHz Packet Simplex Channels 20 kHz spacing	441.0750 MHz 12.5 kHz channels Diversity Spaced
145.000 MHz 10.0 kHz channels Diversity Spaced	223.700 MHz Packet Simplex Channels 20 kHz spacing	441.5000 MHz Reserved for Packet use
145.010 MHz 10.0 kHz channels Diversity Spaced	223.720 MHz Packet Simplex Channels 20 kHz spacing	441.5250 MHz Reserved for Packet use
145.020 MHz 10.0 kHz channels Diversity Spaced	223.740 MHz Packet Simplex Channels 20 kHz spacing	
145.030 MHz 10.0 kHz channels Diversity Spaced		
145.040 MHz 10.0 kHz channels Diversity Spaced		
145.050 MHz 10.0 kHz channels Diversity Spaced		
145.060 MHz 10.0 kHz channels Diversity Spaced		
145.070 MHz 10.0 kHz channels Diversity Spaced		
145.080 MHz 10.0 kHz channels Diversity Spaced		
145.090 MHz 10.0 kHz channels Diversity Spaced		
145.510 MHz Misc & Experimental Un-Coord by ORRC *		
145.530 MHz Misc & Experimental Un-Coord by ORRC *		
145.550 MHz Misc & Experimental Un-Coord by ORRC *		
145.570 MHz Misc & Experimental Un-Coord by ORRC *		
145.590 MHz Misc & Experimental Un-Coord by ORRC *		
145.610 MHz Misc & Experimental Un-Coord by ORRC *		
145.630 MHz Misc &		

<p>Experimental Un-Coord by ORRC *</p> <p>145.650 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.670 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.690 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.710 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.730 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.750 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.770 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>145.790 MHz Misc &amp; Experimental Un-Coord by ORRC *</p> <p>*See ARRL Band Plan</p>		
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4/16/2005 from Neil McKie - WA6KLA Oregon Region Relay Council - ORRC  
 Operations Committee Chair <http://www.orrc.org/RegDirs.htm>

### Northern Oregon Amateur Packet Radio Association

Northern Oregon Amateur Packet Radio Association is pleased to publish results of the first ever Unannounced, Burst Mode, Digital Simulated Emergency Test.

[Click here for the PDF version of the report.](#) 

Page 1 has a brief explanation of the intent of this test and how it was conducted. It also has a table listing the network loading statistics from each of the

participating BBSs.

Page 2 shows the hourly network traffic load from the viewpoint of each participating BBS.

Page 3 is a simple bar chart showing most of the remaining traffic totals.

Future similar tests are being planned. Participation by all area BBSs running the latest version of SNOS is welcome.

Feel free to forward, distribute and post this report in any manner you see fit... web sites, club bulletin boards, etc.

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