

## 2002 ARRL Repeater Directory Data Specification

This document describes the new data format for submissions from coordinators for the *2002 ARRL Repeater Directory*. The new format defines individual data fields for each item that may appear in the NOTES field of the listings. This will allow us to definitively create NOTES field entries that are consistent, to avoid unnecessarily confusing users of the directory, while also ensuring that coordinator supplied data is accurately entered into the NOTES field.

The new format also includes fields for longitude and latitude. If provided, these fields, which are entirely optional, will be used within ARRL's *TravelPlus* product.

### Field Types

Each field contains NUMERIC, TEXT or BOOLEAN data:

NUMERIC	An integer or decimal number. For decimal numbers, such as frequency, ensure that a sufficient number of significant digits are used. (Frequencies will be printed with 4 digits to the right of the decimal point.)
TEXT	In most cases, the lengths of text fields are not specified because they will be printed with a proportional font and the exact length allowable is dependent on the actual text characters. However, you should use the minimum length of text possible, in order to eliminate unnecessary line wrapping in the printed output. The absolute maximum length for all text fields is 255 characters. ARRL reserves the right to truncate entries that are excessively long. See the footnotes for some suggested text lengths.
BOOLEAN	Boolean fields are set to T, Y or 1 to indicate TRUE. They are set to F, N, 0 or blank to indicate FALSE.

In the notes for the following table you'll see that some BOOLEAN fields are ignored if companion parameter fields are nonblank. The purpose of this is to make it easier for those persons devising mechanisms for exporting existing databases to this new format. It may be problematic in some cases to populate the boolean fields, so we've made that optional when the parameters are present.

	<i>Field Name</i>	<i>Type</i>	<i>Explanation</i>	<i>Note</i>
1	BAND	TEXT: One of 29, 52, 144, 220, 440, 500, 902, 1240	Frequency Band	1
2	OUTPUT	NUMERIC	Output frequency (MHz)	
3	INPUT	NUMERIC/TEXT	Input frequency (MHz), + or --	
4	STATE	TEXT	State/Province	
5	LOCATION	TEXT	City/Location	2
6	CALL	TEXT	Call sign	
7	SPONSOR	TEXT	Sponsoring group	3
8	SOURCE	TEXT	Coordination group	4
9	GEOG_AREA	TEXT	Geographic area	5
10	COORDINATED	BOOLEAN	Repeater is coordinated	6
11	OPEN	BOOLEAN	Open system (usually carrier operated)	
12	CLOSED	BOOLEAN	Closed, limited access system	
13	BILINGUAL	BOOLEAN	Bilingual system	
14	EXPERIMENTAL	BOOLEAN	Demonstration or experimental system	
15	LITZ	BOOLEAN	Long-tone zero system	
16	TONE	BOOLEAN	Tone access (CTCSS) required	7
17	CTCSS_IN	TEXT	Input CTCSS tone (Hz or Motorola designator)	
18	CTCSS_OUT	TEXT	Output CTCSS tone (Hz or Motorola designator)	
19	DCS	BOOLEAN	Digital-coded squelch access	8
20	DCS_CODE	TEXT	DCS access code	
21	DTMF	BOOLEAN	DTMF (Touch-tone) access required	
22	REMOTE_BASE	BOOLEAN	Remote base system	

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1 Field can contain 'ATV' in place of '500'.

2 Use proper capitalization. Abbreviate where possible to minimize line wrapping.

3 Field will be truncated if too long for line during formatting. Suggested maximum length: 8 capital letters.

4 Optional.

5 Will be printed as capital letters and truncated to prevent line wrap. Suggested maximum length: 30 letters.

6 Assumed TRUE if blank.

7 Ignored and assumed TRUE if CTCSS\_IN is not blank or zero.

8 Ignored and assumed TRUE if DCS\_CODE is not blank.

23	SNP	BOOLEAN	Shared, not protected pair	
24	AUTOPATCH	BOOLEAN	Autopatch	9
25	PATCH_SEQ	TEXT	DTMF sequence for autopatch access	
26	CLOSED_PATCH	BOOLEAN	Closed autopatch	
27	EMERG_POWER	BOOLEAN	Emergency power	10
28	EMERG_SUN	BOOLEAN	Solar power	
29	EMERG_WIND	BOOLEAN	Wind power	
30	LINKED	BOOLEAN	Linked system	11
31	LINK_FREQ	TEXT	Frequencies linked to	
32	PORTABLE	BOOLEAN	Portable system	
33	RACES	BOOLEAN	RACES affiliated	
34	ARES	BOOLEAN	ARES affiliated	
35	WIDE_AREA	BOOLEAN	Wide-area coverage system	
36	LAW	BOOLEAN	Direct access to law enforcement	12
37	LAW_DTMF	TEXT	DTMF sequence used to access law enforcement	
38	WEATHER	BOOLEAN	Weather net or usage	13
39	WEATHER_DTMF	TEXT	DTMF sequence used to access weather	
40	LATITUDE	NUMERIC	Station latitude in decimal degrees (south latitude values should be negative)	
41	LONGITUDE	NUMERIC	Station longitude in decimal degrees (west longitude values should be negative)	

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9 Ignored and assumed TRUE if PATCH\_SEQ is not blank.

10 Ignored and assumed TRUE if EMERG\_SUN is TRUE and/or EMERG\_WIND is TRUE.

11 Ignored and assumed TRUE if LINK\_FREQ is not blank or zero.

12 Ignored and assumed TRUE if LAW\_DTMF is not blank.

13 Ignored and assumed TRUE if WEATHER\_DTMF is not blank.