

**A SURVEY OF MAGNETIC FIELD RADIATION
MEASUREMENTS IN HOUSEHOLD APPLIANCES**

**Conducted By:
F.W.BELL, INC.**

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REGARDING THIS SURVEY

This survey was developed by compiling magnetic field readings conducted in over 20 homes. "Range" readings were taken as close to the electrical source as possible. Because field readings for each appliance can vary by manufacturer, model, size, operating conditions, etc., a range of readings is provided. Some sources displayed significant field strength at a distance of 3 feet and are noted in the results. An average of the range for each appliance is also given.

Please Note: These readings represent a wide variety of brand names and models of electrical products and should be used as a relative indicator only.

If you have questions regarding magnetic fields not answered by this survey, F.W.Bell has set up a special telephone hotline to assist you. The EMF Telephone Hotline is open between 8:30am and 5:00pm (Eastern Time) Monday through Friday.

Call 1-407-678-7308.

MAGNETIC FIELD HOUSEHOLD RADIATION SURVEY RESULTS

Source	Range	Average	At 3 Feet
1. Toaster	2 mG to 102 mG	29 mG	17 mG
2. Microwave Oven	23 mG to 920 mG	319 mG	70 mG
3. Refrigerator	1 mG to 265 mG	33 mG	20 mG
4. Freezer	1 mG to 225 mG	44 mG	---
5. Mixer	1 mG to 1.9 Gauss	323 mG	200 mG
6. Dishwasher	2 mG to 142 mG	55 mG	10 mG
7. Can Opener	300 mG to 8.88 Gauss	2.67 Gauss	33 mG
8. Coffee Maker	3 mG to 245 mG	77 mG	---
9. Food Processor/Blender	22 mG to 783 mG	235 mG	---
10. Central Air Conditioning	5 mG to 128 mG	45 mG	---
11. Hot Water Heater	2 mG to 128 mG	48 mG	---
12. Iron	6 mG to 250 mG	58 mG	---
13. Hair/Blow Dryer	3 mG to 252 mG	69 mG	---
14. Electric Razor	2 mG to 4.8 Gauss	1.28 Gauss	---
15. Curling Iron	1 mG to 4 mG	2.3 mG	---
16. Fan (portable)	2 mG to 1.01 Gauss	113 mG	---
17. Fan (ceiling)	2 mG to 570 mG	104 mG	---
18. Clothes Dryer	2 mG to 58 mG	15.3 mG	---
19. Range Burner	9 mG to 220 mG	101 mG	13 mG
20. Clothes Washer	2 mG to 155 mG	68 mG	---
21. Heating Pad	3 mG to 49 mG	24 mG	---
22. Television (color)	2 mG to 383 mG	172 mG	7 mG
23. Clock Radio	3 mG to 486 mG	97 mG	---
24. Alarm Clock	11 mG to 5.5 Gauss	982 mG	---
25. Circuit Breaker Box	2 mG to 265 mG	60 mG	24 mG
26. Stereo Equipment	2 mG to 20 mG	9 mG	---
27. Aquarium Pump	44 mG to 1.76 Gauss	624 mG	---
28. Hand Drill	485 mG to 1.53 Gauss	1.94 Gauss	---
29. Circular Saw	1.2 Gauss to 1.5 Gauss	1.33 Gauss	---
30. Power Line (incoming)	*7 mG to 589 mG	149 mG	15 mG
31. Pool Pump	90 mG to 1.6 Gauss	1 Gauss	7 mG
32. Vacuum Cleaner	210 mG to 589 mG	400 mG	15 mG
33. Personal Computer	2 mG to 51 mG	16 mG	---
34. Television (B&W)	2 mG to 660 mG	120 mG	---
35. Timer	11 mG to 116 mG	52 mG	---
36. Central Heat	2 mG 128 mG	61 mG	---
37. Wall/Room AC	1 mG to 29 mG	11 mG	---
38. Electric Skillet	3 mG to 436 mG	174 mG	---
39. Carving Knife	1 mG to 322 mG	108 mG	---
40. Toaster Oven	20 mG to 160 mG	85 mG	---