

Common Household Appliances and EMF Emissions

Typical 60 Hz Magnetic Fields at Various Distances

Appliance	Room reading at 1.2 inches (mG)	Room reading at 12 inches (mG)
Microwave oven	750–2,000	40–80
Washing machine	8–400	2–30
Electric range	60–2,000	4–40
Electric shaver	150–15,000	1–90
Fluorescent lamp	400–4,000	5–20
Hair dryer	60–20,000	1–70
Television	25–500	0.4–20

Sources: Gauger, J. R. "Household Appliance Magnetic Field Survey."

IEEE Transactions on Power Apparatus and Systems, PAS-104, no. 9, Sept. 1985.

U.S. EPA. *EMF in Your Environment: Magnetic Field Measurements of Everyday Electrical Devices*, 1992.

Other Appliances

Room Reading in mG

(examples, not averages)

Analog alarm clock	5,400–5,700
Electric heater	56 @ 6 inches/15 @ 12 inches
Electric toothbrush	13,000 @ handle
Cassette recorder	52
AC adapter	2,300–2,700
Refrigerator	8.2 @ door
Vacuum cleaner	5,900 @ motor/22 @ handle
Electric dryer	39 @ front panel

Sources: Ledoux, Phil, Paper presented to the Science Research Department Staff at the New Jersey Department of Environmental Protection, Division of Sciences and Resources. Trenton, New Jersey, 1994.