

**Appendix III
Underway Replenishment Extends the
Endurance of Carriers**

Table III.2: Average Daily Fuel and Ordnance Consumption Rates for Selected Ship Classes

Ship class	DFM (barrels)	JP-5 (barrels)	Ordnance (tons)
Carrier (CV)	2,700	6,500	70-150
Carrier (CVN)	a	6,500	70-150
CG-47	725	a	a
DD-963	710	a	a
DDG-51	710	a	a

^aNo quantities shown.

Source: Center for Naval Analyses report.¹

The conventionally powered cruisers and destroyers that are a part of carrier battle groups are dependent on underway replenishment support by Combat Logistics Force. Compared to a conventional carrier, they have smaller fuel storage capacities and relatively high fuel consumption rates at higher speeds. Table III.3 compares the approximate range and endurance of these ships as well as of a conventional carrier.

¹Center for Naval Analyses Report 205, *Sizing the Combat Logistic Force*, June 1993. The Center for Naval Analyses used 1990 and 1991 fleet data contained in the *Navy Energy Usage Reporting System* for fuel consumption, and aircraft fuel and ordnance consumption based on the final days of Operation Desert Storm.