

## Appendix I

## Notes to Table I

Figures for columns one and two are from the U.S. Arms Control and Disarmament Agency, *World Military Expenditure and Arms Transfers 1991-1992* (Washington, D.C.: ACDA, 1994). Figures for columns three and five are derived by country, with sources listed below. Figures for column four are derived from those in column two and three.

*United States:* Production figures for 1991 are derived from domestic procurement authorizations (\$60.5 billion), in SIPRI, *1993 Yearbook*, 346, plus ACDA figures for exports, minus imports. This figure is slightly misleading, because budget authorization does not equal actual year spending, but it is close. R&D figure for 1992 is from SIPRI, *1993 Yearbook*, 308.

*USSR/Russia:* Production figures for 1991 are from Julian Cooper, in Herbert Wulf, ed., *Arms Industry Limited* (Oxford: Oxford University Press, 1993), 88, and are converted from roubles by correlating his figures for military expenditure (96.6 billion roubles) with the ACDA figures given in the table. R&D figures (10.4 billion roubles) have been converted in the same fashion.

*China:* Procurement has been estimated at 10 percent of the budget at the beginning of the 1990s, with R&D estimated at 12 percent, in Wulf, 310-311. The production figure has been derived from this estimate and the ACDA military expenditure figure, and by adding to this the ACDA export total. This figure accords well with that presented in other sources. The R&D figure has also been derived in this way.

*Britain:* Production figure is derived from the 1991 figure for procurement (97.5 billion francs) given in SIPRI, *1993 Yearbook*, 373, plus the ACDA figure for arms exports, minus arms imports. R&D figure is for 1988, and is derived from P. Patel and K. Pavitt, "Europe's Technological Performance," in Christopher Freeman, Margaret Sharp and William Walker, eds. *Technology and the Future of Europe: Global Competition and the Environment in the 1990s* (London: Pinter Publishers, 1991), 41. R&D spending has not declined significantly since then.

*France:* Production figure is derived from the 1991 figure for procurement given in SIPRI, *1993 Yearbook*, 373, plus the ACDA figure for arms exports, minus arms imports. R&D figure for 1990 is from SIPRI, *1993 Yearbook*, 308.