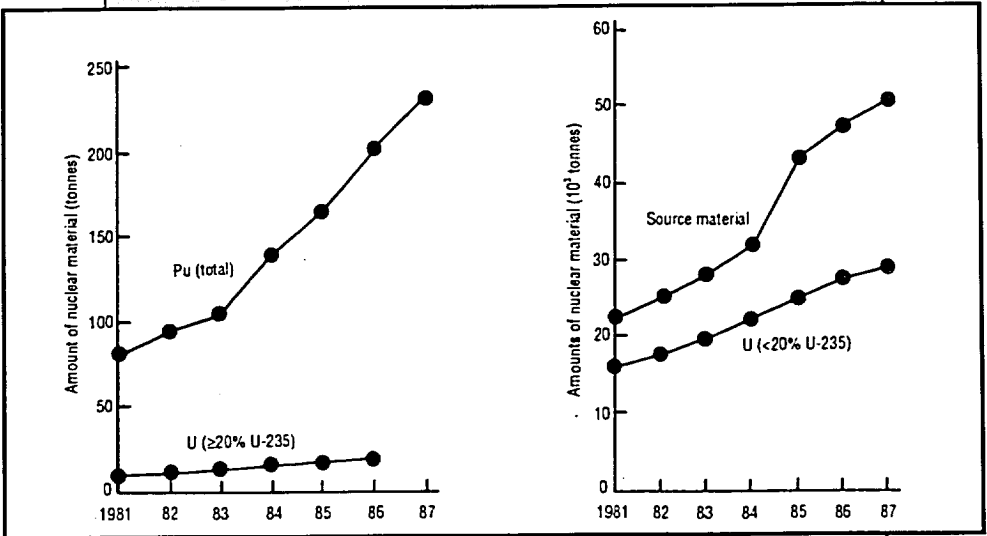


Figure 2 Amounts of Nuclear Material under IAEA Safeguards*



* Including all safeguarded nuclear material in nuclear-weapon states.

Note: Data for plutonium refer to the total amount of plutonium, i.e., that contained in irradiated fuel and separated plutonium.

Source: V. Schuricht and L. Larrimore, "Safeguarding Nuclear Fuel Cycle Facilities", *IAEA Bulletin*, Vol.30, No.1, 1988, p.9.

Agency Effectiveness

The effectiveness of Agency safeguards can be judged not only by the extent to which they cover all the possible routes that a state could take to acquire nuclear weapons, but also by the adequacy of safeguards where they do apply.

Only in recent years has the Agency attempted to apply safeguards to some sensitive portions of the fuel cycle, such as enrichment and reprocessing plants. In the past, these sorts of facilities have generally been concentrated in nuclear weapons states, so the gap in coverage was not great. In the case of chemical weapons, if the relevant capabilities were already widespread, such a pattern of the gradual extension of safeguards over the entire production process