Table 1.1
Summary of Fuel Characteristics in Fission Power Plants
(After Benedict-1981)

	BWR	**PWR**	**HTGR**	**CANDU**	**LMFBR**
MW(e)	1100	1100	330	508	1200
Thermal Eff.-%	33	33	39	30	40
Assembly Geometry	8x8 9x9	17x17	Hexagonal	Cylindrical	Hexogonal
Assembly Length-m	3.8	3.7	0.78	0.5	1
# of Assemblies	590	180	1482 -6/column	4680 12/channel	360
Core Ht-m	3.8	3.7	4.75	5.95	1
kg Fuel /assembly	270	600	22	37	80
Tot.tonne fuel in core	138	90-100	0.77-^{235}U 16-^{232}Th[a]	105	29
BU-MWd per MTU	30,000	30,000	100,000	8,000	100,000
≈% Fuel Replaced/y	25	33	18	continuous	Varied
Enrichment-%	1.8	2.8	93	0.711	15-20 ^{239}Pu
Power Density-(kW/liter)	54	100	8	12	280
Linear Ht Rate-kW/m)	19	17	8	26	29
a-Initial Loading					