

**Health, Nutrition, Population and Poverty**  
**Benin 2001 - ANNEX B: ASSETS AND FACTOR SCORES**

Asset Variable	Unweighted		Quintiles						Average	Factor Score	Household score if:	
	Mean	Std. Deviation	Lowest	2nd	3rd	4th	Highest	has asset			no asset	
			Percentage of Population									
Has electricity	0.211	0.408	0.0%	0.3%	0.7%	14.3%	94.3%	21.9%	0.08970	0.17356	-0.04635	
Has radio	0.711	0.453	61.3%	68.6%	79.9%	81.8%	94.0%	77.1%	0.02920	0.01862	-0.04579	
Has television	0.150	0.358	0.0%	0.4%	1.6%	14.0%	72.4%	17.7%	0.07636	0.18143	-0.03213	
Has refrigerator	0.058	0.233	0.0%	0.0%	0.0%	2.2%	32.3%	6.9%	0.05907	0.23865	-0.01462	
Has bicycle	0.454	0.498	76.0%	66.7%	65.3%	42.9%	19.3%	54.0%	-0.03803	-0.04167	0.03470	
Has motorcycle/scooter	0.249	0.432	4.4%	20.7%	34.9%	40.4%	58.0%	31.7%	0.03783	0.06570	-0.02177	
Has car/truck	0.041	0.199	0.0%	0.1%	2.6%	4.7%	21.1%	5.7%	0.04274	0.20600	-0.00886	
Has telephone	0.035	0.184	0.0%	0.0%	0.0%	1.3%	20.5%	4.4%	0.05010	0.26233	-0.00957	
Owns a boat	0.029	0.169	1.3%	3.4%	3.7%	4.6%	0.2%	2.7%	-0.00642	-0.03696	0.00112	
If HH has a domestic worker not related to head	0.005	0.073	0.0%	0.0%	0.0%	0.0%	3.5%	0.7%	0.02110	0.28704	-0.00155	
If household works own or family's agric. land	0.297	0.457	73.2%	53.9%	39.3%	17.8%	0.4%	36.9%	-0.04336	-0.06675	0.02817	
if piped drinking water in residence	0.106	0.307	0.0%	0.0%	0.6%	4.3%	49.3%	10.8%	0.07076	0.20594	-0.02431	
if uses water that is piped into yard/plot	0.197	0.398	0.5%	4.9%	12.5%	34.0%	37.7%	17.9%	0.03256	0.06571	-0.01613	
if uses a public faucet (piped)	0.124	0.330	13.1%	16.3%	23.9%	13.9%	3.4%	14.1%	-0.01503	-0.03986	0.00567	
if has an open well	0.222	0.416	26.8%	27.1%	26.0%	22.1%	5.9%	21.6%	-0.02299	-0.04299	0.01229	
if uses manual pumped well for drinking water	0.121	0.327	21.1%	19.8%	12.1%	9.7%	0.6%	12.7%	-0.02190	-0.05892	0.00814	
if uses a protected well	0.054	0.225	5.8%	6.1%	8.0%	5.7%	2.1%	5.5%	-0.00883	-0.03713	0.00210	
if uses river, canal or surface water for drinking	0.105	0.307	28.6%	14.4%	8.1%	2.5%	0.1%	10.7%	-0.02544	-0.07418	0.00872	
if spring for drinking water	0.017	0.131	1.6%	3.1%	1.0%	0.8%	0.4%	1.4%	-0.00730	-0.05493	0.00097	
if rain for drinking water	0.052	0.222	2.4%	8.3%	7.8%	6.9%	0.4%	5.2%	-0.01027	-0.04391	0.00240	
if gets drinking water from tanker truck	0.001	0.026	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%	-0.00191	-0.07245	0.00005	
if uses bottled water	0.000	0.019	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.00334	0.17915	-0.00006	
if uses a flush toilet in residence/private	0.022	0.147	0.0%	0.0%	0.0%	0.0%	10.5%	2.1%	0.04433	0.29545	-0.00665	
if uses a pit or unventilated latrine	0.036	0.186	0.0%	0.5%	1.6%	8.0%	13.1%	4.6%	0.01892	0.09832	-0.00364	
if uses a VIP latrine	0.032	0.177	0.0%	0.0%	0.4%	3.4%	16.7%	4.1%	0.03089	0.16922	-0.00564	
if uses a shared flush toilet	0.003	0.057	0.0%	0.0%	0.0%	0.0%	1.4%	0.3%	0.01382	0.24034	-0.00079	
if uses a shared pit or unventilated latrine	0.107	0.310	0.0%	1.5%	8.7%	25.7%	17.2%	10.6%	0.01793	0.05166	-0.00622	
if uses a shared VIP latrine	0.112	0.316	0.0%	0.7%	3.7%	11.3%	33.3%	9.8%	0.04501	0.12662	-0.01599	
if uses bush,field as latrine	0.679	0.467	100.0%	96.5%	84.9%	49.9%	6.9%	67.7%	-0.07742	-0.05327	0.11249	
if other type of latrine	0.008	0.090	0.0%	0.9%	0.7%	1.2%	0.9%	0.7%	0.00145	0.01601	-0.00013	
if has dirt, sand, dung as principal floor in dwelling	0.436	0.496	97.2%	69.8%	29.1%	8.9%	0.7%	41.2%	-0.06074	-0.06905	0.05341	
if has wood, plank principal floor in dwelling	0.001	0.029	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	-0.00180	-0.06103	0.00005	
if has palm/bamboo for principal floor	0.004	0.062	0.1%	0.1%	1.5%	0.3%	0.0%	0.4%	-0.00234	-0.03780	0.00014	
if has parquet or polished wood floors	0.000	0.013	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.00379	0.28812	-0.00005	
if has vinyl or asphalt strips as flooring material	0.016	0.126	0.0%	0.0%	0.0%	0.1%	8.1%	1.7%	0.03795	0.29647	-0.00486	
if has other type of flooring	0.001	0.029	0.0%	0.0%	0.2%	0.2%	0.2%	0.1%	0.00401	0.13631	-0.00012	
if has earth for walls	0.576	0.494	96.9%	89.3%	69.4%	29.8%	2.3%	57.5%	-0.07086	-0.06081	0.08255	
Walls of stone with lime or cement	0.002	0.044	0.0%	0.2%	0.2%	0.7%	0.2%	0.3%	0.00071	0.01628	-0.00003	
if has wood planks for walls	0.003	0.057	0.0%	0.6%	0.1%	0.2%	0.1%	0.2%	-0.00152	-0.02648	0.00009	
if has palm planks for walls	0.055	0.228	2.8%	7.0%	5.2%	5.0%	2.6%	4.5%	-0.00465	-0.01930	0.00112	
if walls from bare brick, cement blocks	0.283	0.451	0.0%	0.0%	3.1%	46.6%	90.9%	28.1%	0.08187	0.13029	-0.05144	
if walls from mixed brick, cement blocks	0.078	0.268	0.1%	2.3%	21.7%	17.3%	3.9%	9.0%	-0.00235	-0.00809	0.00068	

if has other material for walls	0.003	0.056	0.2%	0.5%	0.2%	0.2%	0.1%	0.3%	-0.00232	-0.04139	0.00013
if has natural material roofing	0.246	0.431	73.9%	24.9%	11.4%	3.8%	0.1%	22.8%	-0.04391	-0.07687	0.02508
if roof from palm leaf, thatch	0.004	0.063	0.0%	0.5%	0.9%	0.4%	0.0%	0.4%	-0.00212	-0.03344	0.00013
if has wood roof	0.000	0.019	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	-0.00092	-0.04942	0.00002
if has tole tiles for roof	0.718	0.450	26.0%	74.3%	87.7%	92.6%	86.5%	73.4%	0.02796	0.01751	-0.04465
if has tuile tiles for roof	0.010	0.097	0.0%	0.0%	0.0%	1.6%	3.3%	1.0%	0.01427	0.14547	-0.00140
if roof from cement	0.021	0.143	0.0%	0.3%	0.0%	1.3%	9.7%	2.3%	0.03465	0.23673	-0.00507
if has other roofing	0.000	0.019	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.00217	0.11648	-0.00004
if uses gas as cooking fuel	0.008	0.091	0.0%	0.0%	0.0%	0.0%	3.6%	0.7%	0.02834	0.30933	-0.00260
if uses charcoal for cooking	0.153	0.360	0.0%	0.3%	1.9%	15.9%	53.8%	14.4%	0.06190	0.14589	-0.02626
if uses wood as cooking fuel	0.785	0.411	100.0%	99.6%	97.7%	80.5%	28.4%	81.2%	-0.07996	-0.04181	0.15288
if uses gasoline for cooking fuel	0.044	0.206	0.0%	0.0%	0.1%	2.2%	12.2%	2.9%	0.03537	0.16413	-0.00762
if uses other cooking fuel	0.008	0.090	0.0%	0.0%	0.2%	1.1%	1.9%	0.6%	0.00774	0.08542	-0.00070
Closed channel for water disposal	0.027	0.163	3.8%	3.4%	1.0%	1.7%	3.7%	2.7%	0.00521	0.03116	-0.00087
Open channel for water disposal	0.005	0.067	0.0%	0.0%	0.0%	0.4%	1.7%	0.4%	0.01232	0.18303	-0.00083
Yard for water disposal	0.156	0.363	9.4%	15.5%	16.6%	17.4%	12.7%	14.3%	-0.00167	-0.00388	0.00072
Bush/field for water disposal	0.784	0.412	86.4%	80.1%	81.2%	77.7%	72.6%	79.6%	-0.01266	-0.00665	0.02410
Open hole for water disposal	0.011	0.104	0.0%	0.0%	0.0%	0.0%	5.9%	1.2%	0.02933	0.27909	-0.00308
Well for water disposal	0.008	0.090	0.2%	0.3%	0.4%	1.1%	1.8%	0.8%	0.00739	0.08156	-0.00067
Electricity lighting	0.205	0.404	0.0%	0.1%	0.5%	12.4%	93.1%	21.2%	0.08953	0.17635	-0.04544
Petrole lighting	0.769	0.421	97.6%	94.7%	94.7%	84.3%	6.1%	75.5%	-0.08415	-0.04610	0.15356
Gas lighting	0.014	0.117	1.4%	2.7%	2.5%	1.4%	0.3%	1.7%	-0.00418	-0.03527	0.00050
Community Group Electricity lighting	0.000	0.013	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.00082	0.06237	-0.00001
Private Group Electricity lighting	0.001	0.029	0.0%	0.0%	0.0%	0.4%	0.2%	0.1%	0.00170	0.05788	-0.00005
Other lighting	0.003	0.051	0.0%	0.1%	0.1%	0.2%	0.1%	0.1%	0.00199	0.03903	-0.00010
Public removal of trash	0.009	0.093	0.0%	0.0%	0.0%	0.9%	3.8%	1.0%	0.01617	-0.00151	-0.00151
Private removal of trash	0.092	0.289	0.0%	0.0%	0.0%	4.3%	40.7%	9.0%	0.06432	-0.02044	-0.02044
Bury trash	0.016	0.124	0.1%	1.1%	1.7%	3.7%	1.9%	1.7%	0.00313	-0.00039	-0.00039
Burn trash	0.048	0.214	0.5%	3.2%	5.8%	8.9%	6.0%	4.9%	0.00458	-0.00103	-0.00103
Throw trash in yard	0.019	0.136	0.5%	1.9%	3.0%	2.1%	1.3%	1.8%	-0.00029	0.00004	0.00004
Throw trash in bush/fields	0.800	0.400	98.5%	93.0%	87.0%	77.2%	44.6%	80.1%	-0.05344	0.10681	0.10681
Other disposal of trash	0.017	0.129	0.3%	0.8%	2.4%	2.6%	1.7%	1.6%	0.00001	0.00000	0.00000

Notes:

- Household score for number of members per sleeping room is calculated as follows:  

$$\left( \frac{\text{\# people per room} - \text{unweighted mean}}{\text{unweighted standard deviation}} \right) * \text{factor score}; \text{ see Annex C.}$$
- Household score for size of land (irrigated or non-irrigated) is calculated as follows:  

$$\left( \frac{\text{acres of land} - \text{unweighted mean}}{\text{unweighted standard deviation}} \right) * \text{factor score}; \text{ see Annex C.}$$

**Benin 2001**  
**Annex B: Assets and Factor Scores**

Wealth Quintile	<u>Asset Index Value</u>	
	Lowest	Highest
poorest	lowest	-0.73475
second	-0.73475	-0.54097
middle	-0.54097	-0.26902
fourth	-0.26902	0.82388
richest	0.82388	highest