

**Health, Nutrition, Population and Poverty**  
**Viet Nam 1997 - 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                                    | 0.784      | 0.411          | 20.5%                    | 78.9% | 87.9% | 96.6% | 99.9%   | 76.7%     | 0.10523  | 0.05520      | -0.20058            |  |
| Has radio  | 0.536      | 0.499          | 30.8%                    | 46.1% | 56.7% | 63.6% | 82.3%   | 55.9%     | 0.07045  | 0.06557      | -0.07568            |  |
| Has television                                     | 0.513      | 0.500          | 11.8%                    | 25.8% | 45.9% | 79.4% | 95.7%   | 51.7%     | 0.11697  | 0.11398      | -0.12003            |  |
| Has refrigerator                                   | 0.090      | 0.287          | 0.0%                     | 0.0%  | 0.2%  | 2.1%  | 38.9%   | 8.2%      | 0.11599  | 0.36818      | -0.03653            |  |
| Has bicycle  | 0.752      | 0.432          | 31.6%                    | 77.6% | 85.9% | 93.3% | 90.6%   | 75.8%     | 0.07887  | 0.04525      | -0.13744            |  |
| Has motorcycle                                     | 0.241      | 0.428          | 1.4%                     | 6.3%  | 13.1% | 28.7% | 74.4%   | 24.7%     | 0.11923  | 0.21176      | -0.06712            |  |
| Has car  | 0.009      | 0.092          | 0.2%                     | 0.1%  | 0.3%  | 0.4%  | 2.9%    | 0.8%      | 0.02829  | 0.30428      | -0.00263            |  |
| Has telephone                                      | 0.077      | 0.266          | 0.0%                     | 0.0%  | 0.1%  | 0.6%  | 33.5%   | 6.8%      | 0.11047  | 0.38323      | -0.03184            |  |
| Has sewing machine                                 | 0.172      | 0.377          | 6.1%                     | 10.4% | 14.2% | 17.5% | 45.8%   | 18.8%     | 0.07158  | 0.15722      | -0.03259            |  |
| Household has a boat                               | 0.085      | 0.280          | 19.2%                    | 10.3% | 9.1%  | 4.7%  | 1.5%    | 9.0%      | -0.03806 | -0.12455     | 0.01163             |  |
| Household has a ploughing mach                     | 0.004      | 0.065          | 0.3%                     | 0.8%  | 0.7%  | 1.1%  | 0.1%    | 0.6%      | -0.00125 | -0.01906     | 0.00008             |  |
| Household has a motor scooter                      | 0.002      | 0.049          | 0.0%                     | 0.1%  | 0.1%  | 0.6%  | 0.3%    | 0.2%      | 0.00490  | 0.09937      | -0.00024            |  |
| Number of members per sleeping room                | 3.053      | 1.864          | 4.7                      | 4.0   | 3.6   | 3.0   | 2.9     | 3.6       | -0.05851 | 0.06444      | 0.09582             |  |
| If piped drinking water in residence               | 0.174      | 0.379          | 0.4%                     | 1.7%  | 2.3%  | 8.0%  | 60.3%   | 14.5%     | 0.11911  | 0.25990      | -0.05458            |  |
| If piped drinking water in public tap              | 0.014      | 0.119          | 0.7%                     | 1.2%  | 1.1%  | 1.8%  | 1.1%    | 1.2%      | 0.00371  | 0.03063      | -0.00045            |  |
| If inside well drinking water                      | 0.457      | 0.498          | 22.4%                    | 57.0% | 58.5% | 63.9% | 29.5%   | 46.3%     | -0.00246 | -0.00268     | 0.00225             |  |
| If uses river, canal or surface water for drinking | 0.144      | 0.351          | 45.4%                    | 18.5% | 14.3% | 4.4%  | 1.4%    | 16.8%     | -0.07299 | -0.17795     | 0.02993             |  |
| If uses shared flush toilet                        | 0.013      | 0.111          | 0.2%                     | 0.1%  | 0.7%  | 1.1%  | 1.8%    | 0.8%      | 0.01182  | 0.10479      | -0.00133            |  |
| If has traditional pit latrine                     | 0.477      | 0.500          | 46.2%                    | 67.1% | 67.8% | 58.9% | 13.7%   | 50.7%     | -0.05333 | -0.05584     | 0.05092             |  |
| If uses VIP latrine                                | 0.091      | 0.287          | 0.3%                     | 2.9%  | 9.2%  | 19.5% | 9.6%    | 8.3%      | 0.02554  | 0.08087      | -0.00807            |  |
| If uses bush,field as latrine                      | 0.229      | 0.420          | 53.2%                    | 29.7% | 21.3% | 12.9% | 1.7%    | 23.8%     | -0.07407 | -0.13580     | 0.04039             |  |
| If has a finished floor                            | 0.568      | 0.495          | 0.7%                     | 10.9% | 59.6% | 95.4% | 99.2%   | 53.1%     | 0.14158  | 0.12356      | -0.16221            |  |
| If has concrete roofing                            | 0.129      | 0.335          | 0.1%                     | 0.8%  | 3.4%  | 15.0% | 37.0%   | 11.2%     | 0.08671  | 0.22561      | -0.03332            |  |
| If has a roof of galvanized iron/aluminium         | 0.121      | 0.326          | 1.7%                     | 4.8%  | 8.7%  | 13.1% | 30.0%   | 11.7%     | 0.05690  | 0.15337      | -0.02111            |  |
| If has earth or sand floor                         | 0.355      | 0.478          | 65.1%                    | 76.7% | 32.8% | 4.0%  | 0.4%    | 35.9%     | -0.10413 | -0.14046     | 0.07719             |  |
| If has rough wood or bamboo flooring               | 0.078      | 0.267          | 34.1%                    | 12.4% | 7.6%  | 0.6%  | 0.3%    | 11.0%     | -0.06609 | -0.22792     | 0.01916             |  |
| If has natural material roofing                    | 0.224      | 0.417          | 78.2%                    | 25.8% | 6.6%  | 2.3%  | 0.8%    | 22.8%     | -0.10662 | -0.19853     | 0.05725             |  |
| If rain for drinking water                         | 0.145      | 0.353          | 13.6%                    | 12.0% | 17.4% | 19.4% | 6.8%    | 13.9%     | -0.00925 | -0.02242     | 0.00382             |  |
| If uses a public well                              | 0.064      | 0.245          | 17.2%                    | 9.6%  | 6.3%  | 2.3%  | 0.8%    | 7.2%      | -0.04074 | -0.15545     | 0.01068             |  |
| If has own flush toilet                            | 0.190      | 0.393          | 0.0%                     | 0.2%  | 1.0%  | 7.7%  | 73.3%   | 16.4%     | 0.13553  | 0.27958      | -0.06569            |  |
| If uses water from a tanker truck                  | 0.002      | 0.041          | 0.3%                     | 0.1%  | 0.0%  | 0.3%  | 0.0%    | 0.1%      | -0.00225 | -0.05439     | 0.00009             |  |
| If uses bottled water                              | 0.000      | 0.012          | 0.0%                     | 0.0%  | 0.0%  | 0.0%  | 0.0%    | 0.0%      | -0.00053 | -0.04430     | 0.00001             |  |
| If roof made of asbestos or iron sheeting          | 0.526      | 0.499          | 20.1%                    | 68.6% | 81.4% | 69.6% | 32.2%   | 54.4%     | -0.00186 | -0.00177     | 0.00196             |  |
| If floor is made of other materials                | 0.000      | 0.012          | 0.0%                     | 0.0%  | 0.0%  | 0.0%  | 0.0%    | 0.0%      | -0.00160 | -0.13399     | 0.00002             |  |

Notes:

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

( (acres of land - unweighted mean) / unweighted standard deviation ) \* factor score; see Annex C.

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### Annex B: Assets and Factor Scores

| Wealth<br>Quintile | <u>Asset Index Value</u> |          |
|--------------------|--------------------------|----------|
|                    | Lowest                   | Highest  |
| poorest            | lowest                   | -0.93890 |
| second             | -0.93890                 | -0.43884 |
| middle             | -0.43884                 | 0.06340  |
| fourth             | 0.06340                  | 0.70401  |
| richest            | 0.70401                  | highest  |