

UTILITY ALLOWANCE STUDY

SECTION 8 Glades County

Prepared For:

The Housing Authority of the City of Fort Myers

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1 Basis for Utility Allowance – Section 8

This utility allowance study for the Section 8 tenant-based assistance: housing choice voucher program conforms to 24CFR982.517 which follows:

982.517 Utility allowance schedule.

(a) *Maintaining schedule.* (1) The PHA must maintain a utility allowance schedule for all tenant-paid utilities (except telephone), for cost of tenant supplied refrigerators and ranges, and for other tenant-paid housing services (e.g., trash collection (disposal of waste and refuse)). (2) The PHA must give HUD a copy of the utility allowance schedule. At HUD's request, the PHA also must provide any information or procedures used in preparation of the schedule.

(b) *How allowances are determined.* (1) The utility allowance schedule must be determined based on the typical cost of utilities and services paid by energy conservative households that occupy housing of similar size and type in the same locality. In developing the schedule, the PHA must use normal patterns of consumption for the community as a whole and current utility rates. (2)(i) a PHA's utility allowance schedule, and the utility allowance for an individual family, must include the utilities and services that are necessary in the locality to provide housing that complies with the housing quality standards. However, the PHA may not provide any allowance for non-essential utility costs, such as costs of cable or satellite television. (ii) In the utility allowance schedule, the PHA must classify utilities and other housing services according to the following general categories: space heating; air conditioning; cooking; water heating; water; sewer; trash collection (disposal of waste and refuse); other electric; refrigerator (cost of tenant- supplied refrigerator); range (cost of tenant-supplied range); and other specified housing services. The PHA must provide a utility allowance for tenant-paid air-conditioning costs if the majority of housing units in the market provide centrally air-conditioned units or there is appropriate wiring for tenant-installed air conditioners. (3) The cost of each utility and housing service category must be stated separately. For each of these categories, the utility allowance schedule must take into consideration unit size (by number of bedrooms), and unit types (e.g., apartment, row-house, townhouse, single-family detached, and manufactured housing) that are typical in the community. (4) The utility allowance schedule must be prepared and submitted in accordance with HUD requirements on the form prescribed by HUD.

(c) *Revisions of utility allowance schedule.* (1) a PHA must review its schedule of utility allowances each year, and must revise its allowance for a utility category if there PHAs been a change of 10 percent or more in the utility rate since the last time the utility allowance schedule was revised. The PHA must maintain information supporting its annual review of utility allowances and any revisions made in its utility allowance schedule. (2) At HUD's direction, the PHA must revise the utility allowance schedule to correct any errors, or as necessary to update the schedule.

(d) *Use of utility allowance schedule.* (1) The PHA must use the appropriate utility allowance for the size of dwelling unit actually leased by the family (rather than the family unit size as determined under the PHA subsidy standards). (2) At reexamination, the PHA must use the PHA current utility allowance schedule.

(e) *Higher utility allowance as reasonable accommodation for a person with disabilities.* On request from a family that includes a person with disabilities, the PHA must approve a utility allowance which is higher than the applicable amount on the utility allowance schedule if a higher utility allowance is needed as a reasonable accommodation in accordance with 24 CFR part 8 to make the program accessible to and usable by the family member with a disability.

2 Introduction

The The Housing Authority of the City of Fort Myers provides vouchers for zero through five bedroom units in a variety of configurations including mobile homes, single family homes, duplexes, townhouses and multi-story, multi-family units. Each unit within each type can vary in age, size and configuration.

This Utility Allowance Study was performed for the purpose of complying with Federal Register 24 CFR Part 982. These regulations apply to allowances for all applicable types of utilities, regardless on the methodology used to calculate the allowances.

The study was performed with the assistance of the Utility Allowance Guidebook 7420.10G. This study uses the engineering-based methodology, one of two suggested methods that can be used to establish utility allowances. This method is based on engineering calculations and other technical information that is used to estimate the amount of energy or water a household should reasonable require.

The tenants are responsible for individual metered electric, natural gas, bottled gas (propane), water and sanitary sewer utilities. The tenants can also be responsible for non-metered utility services, such as trash collection.

The age and configuration of unit only has a significant effect on heating and air conditioning. Typical configurations of mobile homes, single family homes, duplexes, low rise / townhouses and multi-story, multi-family are used to estimate these costs. Considerations for allowances such as cooking, lighting and water consumption are typical to the same number of bedrooms and average occupancy. These allowances were developed for each number of bedrooms, zero through five and are based on a typical unit.

3 Utility Allowance Recommendations

3.1 Mobile Home

| Monthly Utility Allowance | | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|---------------|------|------|------|-------|-------|-------|
| Heating | Nat. Gas | \$5 | \$6 | \$6 | \$8 | \$10 | \$13 |
| | Propane | \$16 | \$19 | \$21 | \$27 | \$33 | \$46 |
| | Electric | \$8 | \$10 | \$11 | \$14 | \$17 | \$24 |
| | Electric - HP | \$3 | \$4 | \$4 | \$6 | \$7 | \$9 |
| Cooking | Nat. Gas | \$5 | \$7 | \$11 | \$12 | \$15 | \$17 |
| | Propane | \$18 | \$25 | \$32 | \$40 | \$50 | \$57 |
| | Electric | \$6 | \$9 | \$12 | \$14 | \$18 | \$24 |
| Other Electric | | \$37 | \$42 | \$48 | \$53 | \$63 | \$69 |
| Air Conditioning | | \$17 | \$19 | \$21 | \$28 | \$33 | \$45 |
| Water Heating | Nat. Gas | \$29 | \$35 | \$41 | \$46 | \$54 | \$60 |
| | Propane | \$61 | \$79 | \$98 | \$117 | \$145 | \$164 |
| | Electric | \$20 | \$28 | \$36 | \$43 | \$65 | \$74 |
| | Electric HP | \$5 | \$7 | \$9 | \$11 | \$16 | \$18 |
| Water | | \$51 | \$57 | \$63 | \$69 | \$79 | \$85 |
| Sewer | | \$33 | \$43 | \$53 | \$63 | \$78 | \$88 |
| Trash Collection | | \$26 | \$26 | \$26 | \$26 | \$26 | \$26 |
| Range (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Refrig. (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Oxygen Concentrator | | \$33 | \$33 | \$33 | \$38 | \$38 | \$38 |

3.2 Single Family

| Monthly Utility Allowance | | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|---------------|------|------|------|-------|-------|-------|
| Heating | Nat. Gas | \$7 | \$8 | \$8 | \$9 | \$11 | \$17 |
| | Propane | \$24 | \$27 | \$27 | \$32 | \$38 | \$59 |
| | Electric | \$13 | \$14 | \$14 | \$17 | \$20 | \$31 |
| | Electric - HP | \$5 | \$5 | \$6 | \$6 | \$8 | \$12 |
| Cooking | Nat. Gas | \$5 | \$7 | \$11 | \$12 | \$15 | \$17 |
| | Propane | \$18 | \$25 | \$32 | \$40 | \$50 | \$57 |
| | Electric | \$6 | \$9 | \$12 | \$14 | \$18 | \$24 |
| Other Electric | | \$37 | \$42 | \$48 | \$53 | \$63 | \$69 |
| Air Conditioning | | \$20 | \$22 | \$26 | \$30 | \$36 | \$45 |
| Water Heating | Nat. Gas | \$29 | \$35 | \$41 | \$46 | \$54 | \$60 |
| | Propane | \$61 | \$79 | \$98 | \$117 | \$145 | \$164 |
| | Electric | \$20 | \$28 | \$36 | \$43 | \$65 | \$74 |
| | Electric HP | \$5 | \$7 | \$9 | \$11 | \$16 | \$18 |
| Water | | \$51 | \$57 | \$63 | \$69 | \$79 | \$85 |
| Sewer | | \$33 | \$43 | \$53 | \$63 | \$78 | \$88 |
| Trash Collection | | \$26 | \$26 | \$26 | \$26 | \$26 | \$26 |
| Range (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Refrig. (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Oxygen Concentrator | | \$33 | \$33 | \$33 | \$38 | \$38 | \$38 |

3.3 Duplex

| Monthly Utility Allowance | | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|---------------|------|------|------|-------|-------|-------|
| Heating | Nat. Gas | \$5 | \$6 | \$6 | \$7 | \$8 | \$16 |
| | Propane | \$17 | \$19 | \$22 | \$25 | \$29 | \$54 |
| | Electric | \$9 | \$10 | \$11 | \$13 | \$15 | \$28 |
| | Electric - HP | \$4 | \$4 | \$4 | \$5 | \$6 | \$11 |
| Cooking | Nat. Gas | \$5 | \$7 | \$11 | \$12 | \$15 | \$17 |
| | Propane | \$18 | \$25 | \$32 | \$40 | \$50 | \$57 |
| | Electric | \$6 | \$9 | \$12 | \$14 | \$18 | \$24 |
| Other Electric | | \$37 | \$42 | \$48 | \$53 | \$63 | \$69 |
| Air Conditioning | | \$17 | \$19 | \$23 | \$27 | \$32 | \$43 |
| Water Heating | Nat. Gas | \$29 | \$35 | \$41 | \$46 | \$54 | \$60 |
| | Propane | \$61 | \$79 | \$98 | \$117 | \$145 | \$164 |
| | Electric | \$20 | \$28 | \$36 | \$43 | \$65 | \$74 |
| | Electric HP | \$5 | \$7 | \$9 | \$11 | \$16 | \$18 |
| Water | | \$51 | \$57 | \$63 | \$69 | \$79 | \$85 |
| Sewer | | \$33 | \$43 | \$53 | \$63 | \$78 | \$88 |
| Trash Collection | | \$26 | \$26 | \$26 | \$26 | \$26 | \$26 |
| Range (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Refrig. (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Oxygen Concentrator | | \$33 | \$33 | \$33 | \$38 | \$38 | \$38 |

3.4 Low Rise / Townhouse / Garden Apartment

| Monthly Utility Allowance | | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|---------------|------|------|------|-------|-------|-------|
| Heating | Nat. Gas | \$5 | \$6 | \$7 | \$12 | \$13 | \$14 |
| | Propane | \$18 | \$22 | \$24 | \$42 | \$46 | \$49 |
| | Electric | \$10 | \$11 | \$13 | \$22 | \$24 | \$26 |
| | Electric - HP | \$4 | \$4 | \$5 | \$8 | \$9 | \$10 |
| Cooking | Nat. Gas | \$5 | \$7 | \$11 | \$12 | \$15 | \$17 |
| | Propane | \$18 | \$25 | \$32 | \$40 | \$50 | \$57 |
| | Electric | \$6 | \$9 | \$12 | \$14 | \$18 | \$24 |
| Other Electric | | \$37 | \$42 | \$48 | \$53 | \$63 | \$69 |
| Air Conditioning | | \$18 | \$21 | \$25 | \$34 | \$39 | \$41 |
| Water Heating | Nat. Gas | \$29 | \$35 | \$41 | \$46 | \$54 | \$60 |
| | Propane | \$61 | \$79 | \$98 | \$117 | \$145 | \$164 |
| | Electric | \$20 | \$28 | \$36 | \$43 | \$65 | \$74 |
| | Electric HP | \$5 | \$7 | \$9 | \$11 | \$16 | \$18 |
| Water | | \$51 | \$57 | \$63 | \$69 | \$79 | \$85 |
| Sewer | | \$33 | \$43 | \$53 | \$63 | \$78 | \$88 |
| Trash Collection | | \$26 | \$26 | \$26 | \$26 | \$26 | \$26 |
| Range (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Refrig. (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Oxygen Concentrator | | \$33 | \$33 | \$33 | \$38 | \$38 | \$38 |

3.5 High Rise / Multi-Family, Multi-Story

| Monthly Utility Allowance | | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|---------------|------|------|------|-------|-------|-------|
| Heating | Nat. Gas | \$4 | \$5 | \$7 | \$7 | \$9 | \$11 |
| | Propane | \$14 | \$17 | \$23 | \$25 | \$30 | \$38 |
| | Electric | \$7 | \$9 | \$12 | \$13 | \$16 | \$20 |
| | Electric - HP | \$3 | \$3 | \$5 | \$5 | \$6 | \$8 |
| Cooking | Nat. Gas | \$5 | \$7 | \$11 | \$12 | \$15 | \$17 |
| | Propane | \$18 | \$25 | \$32 | \$40 | \$50 | \$57 |
| | Electric | \$6 | \$9 | \$12 | \$14 | \$18 | \$24 |
| Other Electric | | \$37 | \$42 | \$48 | \$53 | \$63 | \$69 |
| Air Conditioning | | \$15 | \$22 | \$25 | \$30 | \$36 | \$41 |
| Water Heating | Nat. Gas | \$29 | \$35 | \$41 | \$46 | \$54 | \$60 |
| | Propane | \$61 | \$79 | \$98 | \$117 | \$145 | \$164 |
| | Electric | \$20 | \$28 | \$36 | \$43 | \$65 | \$74 |
| | Electric HP | \$5 | \$7 | \$9 | \$11 | \$16 | \$18 |
| Water | | \$51 | \$57 | \$63 | \$69 | \$79 | \$85 |
| Sewer | | \$33 | \$43 | \$53 | \$63 | \$78 | \$88 |
| Trash Collection | | \$26 | \$26 | \$26 | \$26 | \$26 | \$26 |
| Range (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Refrig. (Tenant Supplied) | | \$6 | \$6 | \$6 | \$6 | \$6 | \$6 |
| Oxygen Concentrator | | \$33 | \$33 | \$33 | \$38 | \$38 | \$38 |

4 Utilities Cost

4.1 Electricity

Space Heating

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------------|---------|---------|---------|---------|---------|---------|
| Mobile Home | \$8.15 | \$10.12 | \$10.90 | \$14.43 | \$17.18 | \$24.02 |
| Single Family Home | \$12.60 | \$13.97 | \$14.37 | \$16.78 | \$19.86 | \$31.02 |
| Duplex | \$9.18 | \$10.03 | \$11.30 | \$13.36 | \$15.00 | \$28.29 |
| Low Rise / Townhouse | \$9.66 | \$11.46 | \$12.75 | \$21.95 | \$23.99 | \$25.56 |
| Multi-Story Multi-Family | \$7.11 | \$9.09 | \$12.23 | \$13.30 | \$15.58 | \$20.00 |

Space Heating (Heat Pump)

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------------|--------|--------|--------|--------|--------|---------|
| Mobile Home | \$3.14 | \$3.89 | \$4.19 | \$5.55 | \$6.61 | \$9.24 |
| Single Family Home | \$4.85 | \$5.37 | \$5.53 | \$6.46 | \$7.64 | \$11.93 |
| Duplex | \$3.53 | \$3.86 | \$4.35 | \$5.14 | \$5.77 | \$10.88 |
| Low Rise / Townhouse | \$3.72 | \$4.41 | \$4.90 | \$8.44 | \$9.23 | \$9.83 |
| Multi-Story Multi-Family | \$2.73 | \$3.50 | \$4.71 | \$5.12 | \$5.99 | \$7.69 |

Cooking

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Total Electric | \$6.39 | \$8.95 | \$11.50 | \$14.06 | \$17.89 | \$23.91 |

Other Electric

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Customer Charge | \$22.06 | \$22.06 | \$22.06 | \$22.06 | \$22.06 | \$22.06 |
| Lighting and Refrigeration | \$14.52 | \$20.33 | \$26.14 | \$30.68 | \$40.67 | \$46.48 |
| Total Electric | \$36.59 | \$42.40 | \$48.21 | \$52.74 | \$62.73 | \$68.54 |

Air Conditioning

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|---------|---------|---------|---------|---------|---------|
| Mobile Home | \$16.60 | \$19.39 | \$21.04 | \$27.52 | \$32.71 | \$44.63 |
| Single Family Home | \$19.90 | \$21.70 | \$25.64 | \$29.75 | \$36.19 | \$44.93 |
| Duplex | \$17.21 | \$18.61 | \$23.29 | \$27.07 | \$31.58 | \$43.03 |
| Low Rise / Townhouse | \$17.69 | \$21.37 | \$25.32 | \$33.53 | \$38.88 | \$41.12 |
| Multi-Story Multi- Family | \$15.28 | \$22.23 | \$25.14 | \$30.44 | \$35.92 | \$41.12 |

Water Heating

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Total Electric | \$19.75 | \$27.65 | \$35.56 | \$43.46 | \$64.65 | \$73.89 |
| Electric Heat Pump | \$4.94 | \$6.91 | \$8.89 | \$10.86 | \$16.16 | \$18.47 |

Oxygen Concentrator

| Monthly Electric Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Total Electric | \$32.65 | \$32.65 | \$32.65 | \$38.17 | \$38.17 | \$38.17 |

4.1.1 Electric Rates

Glades Electric Cooperative serves Glades County, FL. Glades Electric Cooperative rates can be found at www.gladeselectric.com Glades Electric Cooperative rates are as follows:

Customer Charge: \$46.15

Energy Charge (First 1,000kWh) = \$0.11487

Energy Charge (All additional kWh) = \$0.15333

FPL serves Glades County, FL. FPL rates can be found at www.fpl.com FPL rates are as follows:

Customer Charge: \$9.72

Energy Charge (First 1,000kWh) = \$0.12617

Energy Charge (All additional kWh) = \$0.14660

Moore Haven Utilities serves Glades County, FL. Moore Haven Utility rates can be found at www.moorehaven.org Moore Haven Utilities rates are as follows:

Customer Charge: \$10.31

Energy Charge (First 1,000kWh) = \$0.10754

Energy Charge (All additional kWh) = \$0.10754

The consolidated electric rates for three utilities are as follows:

| | |
|--------------------------------------|-----------|
| Customer Charge: | \$22.06 |
| Energy Charge (First 1,000kWh) = | \$0.11620 |
| Energy Charge (All additional kWh) = | \$0.13583 |

Three, Four and Five bedroom units use more than 1,000 kWh/month if all electric appliances are used. Therefore, the following allowances were calculated using the higher electric rate:

- 3, 4 & 5 Bedroom - Oxygen Concentrator
- 4 & 5 Bedroom - Water Heating
- 5 Bedroom - Cooking

4.1.2 Monthly Energy Charge

Space Heating (Mobile Home)

| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 70 | 87 | 94 | 124 | 148 | 207 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$8.15 | \$10.12 | \$10.90 | \$14.43 | \$17.18 | \$24.02 |

Space Heating (Single Family)

| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 108 | 120 | 124 | 144 | 171 | 267 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$12.60 | \$13.97 | \$14.37 | \$16.78 | \$19.86 | \$31.02 |

Space Heating (Duplex)

| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 79 | 86 | 97 | 115 | 129 | 243 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$9.18 | \$10.03 | \$11.30 | \$13.36 | \$15.00 | \$28.29 |

Space Heating (Low Rise / Townhouse)

| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 83 | 99 | 110 | 189 | 206 | 220 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$9.66 | \$11.46 | \$12.75 | \$21.95 | \$23.99 | \$25.56 |

Space Heating (Multi-Family, Multi-Story)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 61 | 78 | 105 | 114 | 134 | 172 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$7.11 | \$9.09 | \$12.23 | \$13.30 | \$15.58 | \$20.00 |

Heat Pump**Space Heating (Mobile Home)**

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 27 | 34 | 36 | 48 | 57 | 80 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$3.14 | \$3.89 | \$4.19 | \$5.55 | \$6.61 | \$9.24 |

Space Heating (Single Family)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 42 | 46 | 48 | 56 | 66 | 103 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$4.85 | \$5.37 | \$5.53 | \$6.46 | \$7.64 | \$11.93 |

Space Heating (Duplex)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 30 | 33 | 37 | 44 | 50 | 94 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$3.53 | \$3.86 | \$4.35 | \$5.14 | \$5.77 | \$10.88 |

Space Heating (Low Rise / Townhouse)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 32 | 38 | 42 | 73 | 79 | 85 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$3.72 | \$4.41 | \$4.90 | \$8.44 | \$9.23 | \$9.83 |

Space Heating (Multi-Family, Multi-Story)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Space Heating | 0BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 24 | 30 | 40 | 44 | 52 | 66 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$2.73 | \$3.50 | \$4.71 | \$5.12 | \$5.99 | \$7.69 |

Cooking

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Cooking | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 55 | 77 | 99 | 121 | 154 | 176 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1358 |
| Energy Cost | \$6.39 | \$8.95 | \$11.50 | \$14.06 | \$17.89 | \$23.91 |

Lighting and Refrigeration

| | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|
| Miscellaneous Appliances | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 125 | 175 | 225 | 264 | 350 | 400 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$14.52 | \$20.33 | \$26.14 | \$30.68 | \$40.67 | \$46.48 |

Air Conditioning (Mobile Home)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 143 | 167 | 181 | 237 | 282 | 384 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$16.60 | \$19.39 | \$21.04 | \$27.52 | \$32.71 | \$44.63 |

Air Conditioning (Single Family)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 171 | 187 | 221 | 256 | 311 | 387 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$19.90 | \$21.70 | \$25.64 | \$29.75 | \$36.19 | \$44.93 |

Air Conditioning (Duplex)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 148 | 160 | 200 | 233 | 272 | 370 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$17.21 | \$18.61 | \$23.29 | \$27.07 | \$31.58 | \$43.03 |

Air Conditioning (Low Rise / Townhouse)

| | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electric (kWh) | 152 | 184 | 218 | 289 | 335 | 354 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$17.69 | \$21.37 | \$25.32 | \$33.53 | \$38.88 | \$41.12 |

Air Conditioning (Multi-Family, Multi-Story)

| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 132 | 191 | 216 | 262 | 309 | 354 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 |
| Energy Cost | \$15.28 | \$22.23 | \$25.14 | \$30.44 | \$35.92 | \$41.12 |

Domestic Hot Water

| Domestic Hot Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 170 | 238 | 306 | 374 | 476 | 544 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1358 | \$0.1358 |
| Energy Cost | \$19.75 | \$27.65 | \$35.56 | \$43.46 | \$64.65 | \$73.89 |

Domestic Hot Water (Heat Pump)

| Domestic Hot Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 43 | 60 | 77 | 94 | 119 | 136 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1358 | \$0.1358 |
| Energy Cost | \$4.94 | \$6.91 | \$8.89 | \$10.86 | \$16.16 | \$18.47 |

Oxygen Concentrator

| Oxygen Concentrator | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------|----------|----------|----------|----------|----------|----------|
| Electric (kWh) | 281 | 281 | 281 | 281 | 281 | 281 |
| Energy Charge (\$/kWh) | \$0.1162 | \$0.1162 | \$0.1162 | \$0.1358 | \$0.1358 | \$0.1358 |
| Energy Cost | \$32.65 | \$32.65 | \$32.65 | \$38.17 | \$38.17 | \$38.17 |

4.2 Bottled Gas (Propane)

Space Heating

| Monthly Propane Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Mobile Home | \$15.53 | \$19.27 | \$20.75 | \$27.47 | \$32.71 | \$45.74 |
| Single Family Home | \$23.98 | \$26.60 | \$27.35 | \$31.95 | \$37.81 | \$59.06 |
| Duplex | \$17.47 | \$19.10 | \$21.52 | \$25.44 | \$28.55 | \$53.86 |
| Low Rise / Townhouse | \$18.39 | \$21.82 | \$24.27 | \$41.79 | \$45.67 | \$48.67 |
| Multi-Story Multi-Family | \$13.54 | \$17.30 | \$23.29 | \$25.32 | \$29.67 | \$38.07 |

Cooking

| Monthly Propane Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total Propane | \$17.96 | \$25.14 | \$32.32 | \$39.50 | \$50.28 | \$57.46 |

Water Heating

| Monthly Propane Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
| Customer Charge | \$13.38 | \$13.38 | \$13.38 | \$13.38 | \$13.38 | \$13.38 |
| Commodity Cost | \$47.14 | \$65.99 | \$84.84 | \$103.70 | \$131.98 | \$150.83 |
| Total Propane | \$60.52 | \$79.37 | \$98.22 | \$117.08 | \$145.36 | \$164.21 |

4.2.1 Propane Rates

Propane rates are based on Ferrell Gas. South Florida Gas can be reached at www.ferrellgas.com or (561) 746-4534.

Tank Rental (\$/Month) \$13.38

Commodity Charge: \$/Gallon = \$4.13

4.2.2 Monthly Energy Charge

Space Heating (Mobile Home)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 3.76 | 4.67 | 5.02 | 6.65 | 7.92 | 11.07 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$15.53 | \$19.27 | \$20.75 | \$27.47 | \$32.71 | \$45.74 |

Space Heating (Single Family Home)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 5.81 | 6.44 | 6.62 | 7.74 | 9.15 | 14.30 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$23.98 | \$26.60 | \$27.35 | \$31.95 | \$37.81 | \$59.06 |

Space Heating (Duplex)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 4.23 | 4.62 | 5.21 | 6.16 | 6.91 | 13.04 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$17.47 | \$19.10 | \$21.52 | \$25.44 | \$28.55 | \$53.86 |

Space Heating (Low Rise/Townhouse)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 4.45 | 5.28 | 5.88 | 10.12 | 11.06 | 11.78 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$18.39 | \$21.82 | \$24.27 | \$41.79 | \$45.67 | \$48.67 |

Space Heating (Multi-Family Multi-Story)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 3.28 | 4.19 | 5.64 | 6.13 | 7.18 | 9.22 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$13.54 | \$17.30 | \$23.29 | \$25.32 | \$29.67 | \$38.07 |

Domestic Hot Water

| Domestic Hot Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 11.41 | 15.98 | 20.54 | 25.11 | 31.96 | 36.52 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$47.14 | \$65.99 | \$84.84 | \$103.70 | \$131.98 | \$150.83 |

Cooking

| Cooking | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|----------|----------|----------|----------|----------|----------|
| Propane (Gallons) | 4.35 | 6.09 | 7.83 | 9.57 | 12.17 | 13.91 |
| Commodity Charge (\$/Gallon) | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 | \$4.1300 |
| Commodity Cost | \$17.96 | \$25.14 | \$32.32 | \$39.50 | \$50.28 | \$57.46 |

4.3 Natural Gas**Space Heating**

| Monthly Natural Gas Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|------------------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Mobile Home | \$4.53 | \$5.63 | \$6.06 | \$8.02 | \$9.55 | \$13.35 |
| Single Family Home | \$7.00 | \$7.76 | \$7.99 | \$9.33 | \$11.04 | \$17.24 |
| Duplex | \$5.10 | \$5.58 | \$6.28 | \$7.43 | \$8.34 | \$15.72 |
| Low Rise / Townhouse | \$5.37 | \$6.37 | \$7.08 | \$12.20 | \$13.33 | \$14.21 |
| Multi-Story Multi- Family | \$3.95 | \$5.05 | \$6.80 | \$7.39 | \$8.66 | \$11.11 |

Cooking

| Monthly Natural Gas Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Total Natural Gas | \$5.30 | \$7.42 | \$10.73 | \$11.66 | \$14.84 | \$16.96 |

Water Heating

| Monthly Natural Gas Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Customer Charge | \$15.49 | \$15.49 | \$15.49 | \$15.49 | \$15.49 | \$15.49 |
| Commodity Cost | \$13.91 | \$19.48 | \$25.04 | \$30.61 | \$38.95 | \$44.52 |
| Total Natural Gas | \$29.40 | \$34.96 | \$40.53 | \$46.09 | \$54.44 | \$60.00 |

4.3.1 Natural Gas Rates

TECO Peoples Gas serves natural gas in Glades County. TECO Peoples Gas rates can be found at www.peoplesgas.com. Natural gas utility rates for TECO Peoples Gas are as follows:

Customer Charge: \$15.49

Commodity Charge: \$/Therms = \$1.3249

4.3.2 Monthly Commodity Charge

Space Heating (Mobile Home)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 3.42 | 4.25 | 4.57 | 6.05 | 7.21 | 10.08 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$4.53 | \$5.63 | \$6.06 | \$8.02 | \$9.55 | \$13.35 |

Space Heating (Single Family Home)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 5.28 | 5.86 | 6.03 | 7.04 | 8.33 | 13.01 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$7.00 | \$7.76 | \$7.99 | \$9.33 | \$11.04 | \$17.24 |

Space Heating (Duplex)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 3.85 | 4.21 | 4.74 | 5.61 | 6.29 | 11.87 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$5.10 | \$5.58 | \$6.28 | \$7.43 | \$8.34 | \$15.72 |

Space Heating (Low Rise/Townhouse)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 4.05 | 4.81 | 5.35 | 9.21 | 10.06 | 10.72 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$5.37 | \$6.37 | \$7.08 | \$12.20 | \$13.33 | \$14.21 |

Space Heating (Multi-Family Multi-Story)

| Space Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 2.98 | 3.81 | 5.13 | 5.58 | 6.54 | 8.39 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$3.95 | \$5.05 | \$6.80 | \$7.39 | \$8.66 | \$11.11 |

Domestic Hot Water

| Domestic Hot Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 10.50 | 14.70 | 18.90 | 23.10 | 29.40 | 33.60 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$13.91 | \$19.48 | \$25.04 | \$30.61 | \$38.95 | \$44.52 |

Cooking

| Cooking | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Natural Gas (Therms) | 4.00 | 5.60 | 8.10 | 8.80 | 11.20 | 12.80 |
| Commodity Charge (\$/Therm) | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 | \$1.3249 |
| Commodity Cost | \$5.30 | \$7.42 | \$10.73 | \$11.66 | \$14.84 | \$16.96 |

4.4 Water

Monthly Water Cost

| Monthly Water Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Customer Charge | \$35.24 | \$35.24 | \$35.24 | \$35.24 | \$35.24 | \$35.24 |
| Water Charge | \$15.53 | \$21.74 | \$27.96 | \$34.17 | \$43.49 | \$49.70 |
| Total Water | \$50.78 | \$56.99 | \$63.20 | \$69.41 | \$78.73 | \$84.95 |

4.4.1 Water Rates

Moore Haven Utilities serves Glades County, FL. Moore Haven Utility rates can be found at www.moorehaven.org Moore Haven Utilities rates are as follows:

Base Rate: \$35.24

Water Charge (\$/1000 gal): \$3.88

4.4.2 Monthly Water Charge

| Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Water Consumption (gal) | 4,000 | 5,600 | 7,200 | 8,800 | 11,200 | 12,800 |
| Water Charge | \$15.53 | \$21.74 | \$27.96 | \$34.17 | \$43.49 | \$49.70 |
| Total Water Charge | \$15.53 | \$21.74 | \$27.96 | \$34.17 | \$43.49 | \$49.70 |

4.5 Sewer & Stormwater

Monthly Sewer Cost

| Monthly Sewer Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Customer Charge | \$8.00 | \$8.00 | \$8.00 | \$8.00 | \$8.00 | \$8.00 |
| Sewer Charge | \$25.00 | \$35.00 | \$45.00 | \$55.00 | \$70.00 | \$80.00 |
| Total Sewer | \$33.00 | \$43.00 | \$53.00 | \$63.00 | \$78.00 | \$88.00 |

4.5.1 Sanitary Sewer & Storm Water Rates

Moore Haven Utilities serves Glades County, FL. Moore Haven Utility rates can be found at www.moorehaven.org Moore Haven Utilities rates are as follows:

Customer Charge: \$8.00

Sewer Charge (\$/1000 gal): \$6.25

4.5.2 Monthly Sanitary Sewer Charge

| Sewer | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-------------------------|---------|---------|---------|---------|---------|---------|
| Water Consumption (gal) | 4,000 | 5,600 | 7,200 | 8,800 | 11,200 | 12,800 |
| Total Sewer Charge | \$25.00 | \$35.00 | \$45.00 | \$55.00 | \$70.00 | \$80.00 |

4.6 Trash Collection

| Monthly Trash Collection Cost | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|-------------------------------|---------|---------|---------|---------|---------|---------|
| Total Trash Collection | \$26.25 | \$26.25 | \$26.25 | \$26.25 | \$26.25 | \$26.25 |

4.6.1 Trash Collection Rates

City of Moore Haven provides trash collection in Glades County. Moore Haven rates are as follows:

Customer Charge (\$/month): \$26.25

4.7 Appliance Depreciation Allowance

Should the tenant provide their own range or refrigerator, the Housing Authority is required to reimburse the tenant for the cost of the appliance(s) over the life of the appliance. The following schedule provides the monthly allowance for providing their personal range and/or stove.

Appliance Allowance

| Appliance | Estimated Cost | Expectant Life (Yrs) | Monthly Allowance |
|--------------|----------------|----------------------|-------------------|
| Range | \$683 | 10 | \$6 |
| Refrigerator | \$775 | 10 | \$6 |

5 Consumption Studies

5.1 Space Heating Consumption

The following monthly energy consumption is based on the methodology recommended in the Utility Allowance Guidebook:

| | |
|-------------------------------------|---------|
| Design Outdoor Air Temperature (F): | 42 |
| Design Indoor Air Temperature (F): | 72 |
| Heating Degree Days: | 418 |
| Heat of Electricity (BTU/kWh) | 3,412 |
| Heat Pump COP | 2.6 |
| Furnace Efficiency: | 70% |
| Heat of Propane (BTU/gal) | 91,000 |
| Heat of Natural Gas (BTU/Therm) | 100,000 |

Monthly Energy Consumption Requirements for Heating (Mobile Home)

| Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|---------|---------|---------|---------|---------|---------|
| Design Load (BTU/hr) | 8,593 | 10,665 | 11,484 | 15,206 | 18,107 | 25,315 |
| Energy (BTU's) | 239,458 | 297,198 | 320,021 | 423,741 | 504,582 | 705,445 |
| Electricity (kWh) | 70 | 87 | 94 | 124 | 148 | 207 |
| Heat Pump (kWh) | 27 | 34 | 36 | 48 | 57 | 80 |
| Propane (gal) | 3.76 | 4.67 | 5.02 | 6.65 | 7.92 | 11.07 |
| Natural Gas (Therms) | 3.42 | 4.25 | 4.57 | 6.05 | 7.21 | 10.08 |

Monthly Energy Consumption Requirements for Heating (Single Family)

| Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|---------|---------|---------|---------|---------|---------|
| Design Load (BTU/hr) | 13,275 | 14,722 | 15,140 | 17,686 | 20,927 | 32,688 |
| Energy (BTU's) | 369,930 | 410,253 | 421,901 | 492,850 | 583,166 | 910,906 |
| Electricity (kWh) | 108 | 120 | 124 | 144 | 171 | 267 |
| Heat Pump (kWh) | 42 | 46 | 48 | 56 | 66 | 103 |
| Propane (gal) | 5.81 | 6.44 | 6.62 | 7.74 | 9.15 | 14.30 |
| Natural Gas (Therms) | 5.28 | 5.86 | 6.03 | 7.04 | 8.33 | 13.01 |

Monthly Energy Consumption Requirements for Heating (Duplex)

| Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|---------|---------|---------|---------|---------|---------|
| Design Load (BTU/hr) | 9,672 | 10,570 | 11,910 | 14,083 | 15,803 | 29,813 |
| Energy (BTU's) | 269,526 | 294,551 | 331,892 | 392,446 | 440,377 | 830,789 |
| Electricity (kWh) | 79 | 86 | 97 | 115 | 129 | 243 |
| Heat Pump (kWh) | 30 | 33 | 37 | 44 | 50 | 94 |
| Propane (gal) | 4.23 | 4.62 | 5.21 | 6.16 | 6.91 | 13.04 |
| Natural Gas (Therms) | 3.85 | 4.21 | 4.74 | 5.61 | 6.29 | 11.87 |

Monthly Energy Consumption Requirements for Heating (Low Rise)

| Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|---------|---------|---------|---------|---------|---------|
| Design Load (BTU/hr) | 10,181 | 12,077 | 13,432 | 23,128 | 25,280 | 26,939 |
| Energy (BTU's) | 283,711 | 336,546 | 374,305 | 644,500 | 704,469 | 750,700 |
| Electricity (kWh) | 83 | 99 | 110 | 189 | 206 | 220 |
| Heat Pump (kWh) | 32 | 38 | 42 | 73 | 79 | 85 |
| Propane (gal) | 4.45 | 5.28 | 5.88 | 10.12 | 11.06 | 11.78 |
| Natural Gas (Therms) | 4.05 | 4.81 | 5.35 | 9.21 | 10.06 | 10.72 |

Monthly Energy Consumption Requirements for Heating (Multi Story)

| Heating | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|---------|---------|---------|---------|---------|---------|
| Design Load (BTU/hr) | 7,492 | 9,576 | 12,891 | 14,014 | 16,422 | 21,072 |
| Energy (BTU's) | 208,777 | 266,851 | 359,229 | 390,523 | 457,626 | 587,206 |
| Electricity (kWh) | 61 | 78 | 105 | 114 | 134 | 172 |
| Heat Pump (kWh) | 24 | 30 | 40 | 44 | 52 | 66 |
| Propane (gal) | 3.28 | 4.19 | 5.64 | 6.13 | 7.18 | 9.22 |
| Natural Gas (Therms) | 2.98 | 3.81 | 5.13 | 5.58 | 6.54 | 8.39 |

5.2 Cooking Consumption

The following is the monthly energy consumption requirements for cooking as recommended in the Utility Allowance Guidebook:

Monthly Energy Consumption Requirements for Cooking

| Cooking | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|------|------|------|------|-------|-------|
| Electricity (kWh) | 55 | 77 | 99 | 121 | 154 | 176 |
| Propane (gal) | 4.35 | 6.09 | 7.83 | 9.57 | 12.17 | 13.91 |
| Natural Gas (Therms) | 4 | 5.6 | 8.1 | 8.8 | 11.2 | 12.8 |

5.3 Lighting and Refrigeration Consumption

The following is the monthly energy consumption requirements for lighting and refrigeration as recommended in the Utility Allowance Guidebook:

Monthly Energy Consumption Requirements for Lighting and Refrigeration

| | | | | | | |
|-------------------|------|------|------|------|------|------|
| Refrigeration | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Electricity (kWh) | 125 | 175 | 225 | 264 | 350 | 400 |

5.4 Air Conditioning Consumption

The following monthly energy consumption requirements for air conditioning consumption are based on calculations in HUD's Life Cycle Cost Analysis Handbook 7418.1 CHG-1. The calculations assume the following:

| | |
|----------------------------|------|
| Unit Efficiency (BTU/Watt) | 9.7 |
| Equivalent Full Load Hours | 1700 |

Monthly Energy Consumption Requirements for Air Conditioning (Mobile Home)

| | | | | | | |
|----------------------|-------|--------|--------|--------|--------|--------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Design Load (BTU/hr) | 9,783 | 11,428 | 12,399 | 16,214 | 19,278 | 26,302 |
| Electricity (kWh) | 143 | 167 | 181 | 237 | 282 | 384 |

Monthly Energy Consumption Requirements for Air Conditioning (Single Family Home)

| | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Design Load (BTU/hr) | 11,725 | 12,786 | 15,110 | 17,530 | 21,326 | 26,475 |
| Electricity (kWh) | 171 | 187 | 221 | 256 | 311 | 387 |

Monthly Energy Consumption Requirements for Air Conditioning (Duplex)

| | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Design Load (BTU/hr) | 10,143 | 10,964 | 13,722 | 15,949 | 18,612 | 25,354 |
| Electricity (kWh) | 148 | 160 | 200 | 233 | 272 | 370 |

Monthly Energy Consumption Requirements for Air Conditioning (Low Rise)

| | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
| Design Load (BTU/hr) | 10,427 | 12,595 | 14,920 | 19,759 | 22,911 | 24,233 |
| Electricity (kWh) | 152 | 184 | 218 | 289 | 335 | 354 |

Monthly Energy Consumption Requirements for Air Conditioning (Multi-Family Multi-Story)

| Air Conditioning | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|-------|--------|--------|--------|--------|--------|
| Design Load (BTU/hr) | 9,007 | 13,101 | 14,813 | 17,937 | 21,167 | 24,233 |
| Electricity (kWh) | 132 | 191 | 216 | 262 | 309 | 354 |

5.5 Domestic Hot Water Consumption

The following is the monthly energy consumption requirements for water heating as recommended in the Utility Allowance Guidebook:

Monthly Energy Consumption Requirements for Domestic Hot Water

| Domestic Hot Water | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Electricity (kWh) | 170 | 238 | 306 | 374 | 476 | 544 |
| Heat Pump (kWh) | 43 | 60 | 77 | 94 | 119 | 136 |
| Propane (gal) | 11.41 | 15.98 | 20.54 | 25.11 | 31.96 | 36.52 |
| Natural Gas (Therms) | 10.50 | 14.70 | 18.90 | 23.10 | 29.40 | 33.60 |

5.6 Water Consumption

The following is the monthly energy consumption requirements for water consumption as recommended in the Utility Allowance Guidebook:

Monthly Water Consumption

| Monthly Water Consumption | 0 BR | 1 BR | 2 BR | 3 BR | 4 BR | 5 BR |
|---------------------------|-------|-------|-------|-------|--------|--------|
| Water (Gal) | 4,000 | 5,600 | 7,200 | 8,800 | 11,200 | 12,800 |