Portfolio 2.2 – Informed Decisions Affecting Quality of Life in Rural Areas: KA 804 Human Environmental Issues Concerning Indoor Environmental and Health/Safety/Issues

**Financial Resources:** (Combined Funding for 2000-2004 Totals over $16M):
- Federal
- State
- CSREES
- Other Sources

**Human Capital:**
- CSREES NPLs
- County Staff
- Extension Specialists
- Federal/Agency Contacts
- Non-profit Contacts
- Teachers
- Child Care Contacts
- Health Community
- Law Enforcement Community

**Assumptions:** Education of builders, realtors and consumers leading to better choices and usage of materials, furnishings, household and other products affecting air quality and safety, as well as improvements in household care and maintenance will lead to reductions in illness, accidents and death

**External Factors:** Economic factors affecting home renovation and new development of new building materials, alternative energy, and public health interventions addressed specifically to smoking cessation.

**Research**
- Research requests
- Referred journal articles
- Research reports
- Master’s Thesis

**Education**
- Undergraduate and graduate courses
- Academic seminars at universities
- Curriculum revisions

**Extension**
- Workshops
- Seminars
- Mass Media
- Health Fairs
- Web-based Instruction
- Train-the-Trainer Programs
- Telephone Hotlines
- IAQ Month
- Radon Hotline

**Outcomes**

<table>
<thead>
<tr>
<th>Situation</th>
<th>Inputs</th>
<th>Outputs</th>
<th>Outcomes</th>
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</thead>
<tbody>
<tr>
<td>• Research has shown that the quality of air in homes can be worse than the quality of air outdoors.</td>
<td>Financial Resources:</td>
<td>Research</td>
<td>Education</td>
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<tr>
<td>• The number of people with asthma increased by more than 150% from 1980 to 1998.</td>
<td>(Combined Funding for 2000-2004 Totals over $16M):</td>
<td>• Undergraduate and graduate courses</td>
<td>• Increased knowledge, attitudes, and skills about healthy homes, indoor air quality, water, and energy in the home.</td>
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<tr>
<td>• Accidents in the home injure more than 6 million people each year with the most vulnerable being children and older consumers.</td>
<td></td>
<td>• Academic seminars at universities</td>
<td>• Implementing Best Management Practices</td>
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<tr>
<td>• From 1997 to 2001, home injuries cost society an average of at least 222 billion dollars per year in medical costs.</td>
<td></td>
<td>• Curriculum revisions</td>
<td>• Decreased number of children exposed to second-hand smoke in the home</td>
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<tr>
<td>• Healthy homes focuses on home safety and unintentional injuries, lead hazards and indoor air quality, asthma, moisture and mold.</td>
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<td>• Increased monitoring of appliances</td>
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</tbody>
</table>

**Situation**
- Inputs
- Outputs
- Short
- Medium
- Long-term

**Inputs**
- | Financial Resources: | • Undergraduate and graduate courses | • Increased knowledge, attitudes, and skills about healthy homes, indoor air quality, water, and energy in the home. |
- | Educational Resources: | • Academic seminars at universities | • Implementing Best Management Practices |
- | Human Capital: | • Curriculum revisions | • Decreased number of children exposed to second-hand smoke in the home |
- | Extension | • Research requests | • Increased monitoring of appliances |
- | Research | • Referred journal articles | • Decreased levels of mold mildew |
- | Education | • Research reports | • Increased testing & mitigation for radon & lead, removing asthma triggers, adopting energy efficient practices & adapting to prevent falls |
- | Extension | • Master’s Thesis | • Increased water testing and septic tank maintenance |
- | Research | | • Improved health & safety in the home |
- | Education | | • More energy efficient homes with reduced energy demands & lower energy costs |
- | Extension | | • Fewer emergency room visits by youth with asthma & fewer incidents of asthma |
- | Research | | • Lower asthma episodes for children |
- | Education | | • Decrease in medical expenses |
- | Extension | | • Decrease in absences from school |
- | Research | | • Fewer injuries & deaths in the home from unintentional causes |
- | Education | | • Fewer deaths attributed to lung cancer |

**Outputs**
- | Situation | Inputs | Outputs | Outcomes |
- | Financial Resources: | • Undergraduate and graduate courses | • Increased knowledge, attitudes, and skills about healthy homes, indoor air quality, water, and energy in the home. |
- | Educational Resources: | • Academic seminars at universities | • Implementing Best Management Practices |
- | Human Capital: | • Curriculum revisions | • Decreased number of children exposed to second-hand smoke in the home |
- | Extension | • Research requests | • Increased monitoring of appliances |
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