

5. トイレと住環境に関する住民意識調査

5-1. 住民意識調査の内容と実施

意識調査の内容は、次の通りである。

- 属性（性別/年齢/修学/職業/土地所有/世帯構成等）
- 現在のトイレ使用状況（型式/使用状況/改善意思/改善理由等）
- 生活環境における健康/衛生観念（罹病頻度/汚染経路の認識等）
- トイレ・排泄物に対する意識・行動（管理/排泄物との接触/運搬等）
- 排泄物の利用に対する知識と意思（肥料・ガス利用）
- 衛生改善・資源利用型トイレの改善意思と支払い意思/方法
- 日常生活の関心（医療サービス/生活の関心事/世間に対する関心/満足度等）

これら調査内容に対し、対象の6ヶ村における配布状況は、表に示すとおりである。サンプルの抽出は無作為に行い、被験者に直接回答していただく面接法によった。なお、実施時期は、2008年1～2月である。

表-1 住民意識調査の枠組み

Type of sample	Name of Village						Total
	Raicho	Hatigara	Joypur-north	Joypur-south	Kalikapur	Bamoil	
Old users	4	4	3	3	0	0	14
New users	35	25	11	10	14	4	99
Non users	30	38	47	27	36	41	219
Total	69	67	61	40	50	45	332

5-2. 分析の視点

すでに2005年、Raicho、Hatigara、Joypur-north、Joypur-southの4村にエコサン・トイレを導入しており、現在も使用中である。また、トイレは予算の制約上、99基（1基は建設トレーニング用に建設した）の導入となるが、住民からの要請に応じて選択したものである。したがって、分析に際し、

- 6ヶ村間の比較分析
- 既使用者、新たな導入予定者、それ以外の住民間の比較分析
- 全体に共通の意識構造の分析

が主眼となる。

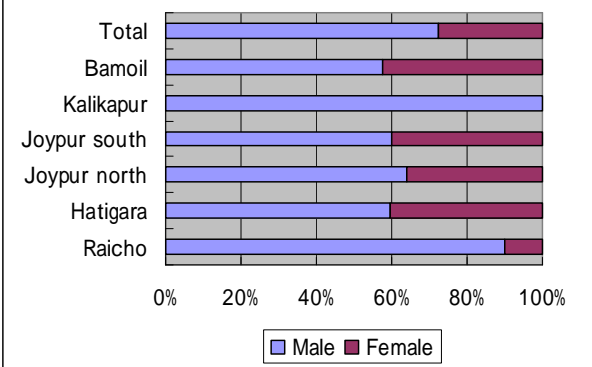
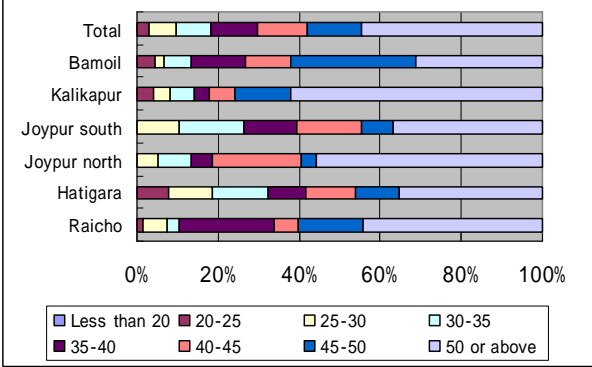
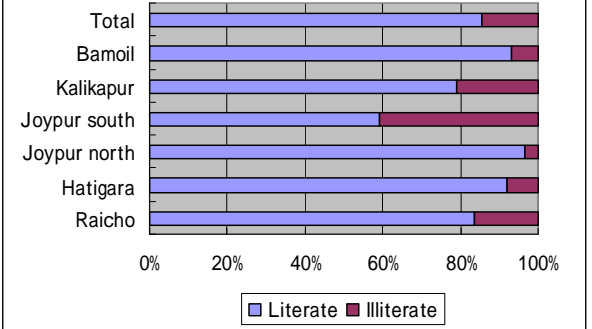
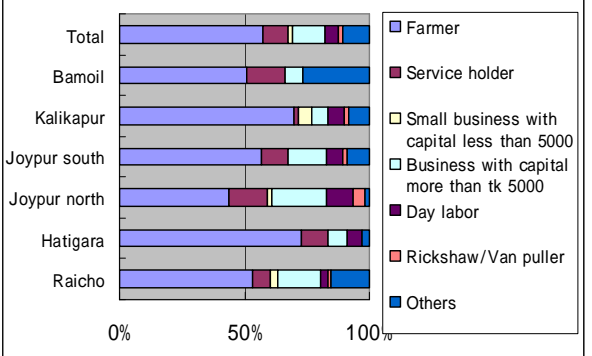
5-3. 分析結果

5-3-1. 6ヶ村間の比較分析

以下に単純集計結果を示し、項目ごとに主な特徴を要約する。

- 属性（性別/年齢/修学/職業/土地所有/世帯構成等）
- ・特にJoypur-South村の識字率が低い。Joypur-North、Bamoill、Hatigara村の識字率は、女性の回答率が40%を占めるにもかかわらず高い。
- ・所謂、専業は稀であり、農業を主体に、多くの住民は兼業の形態のある。
- ・Kalikapur、Raicho村では、貧富の差の大きさを示している。

- ・ Joypur-North、South においてマイクロクレジットへの加入率が小さい。

Item	1. Current attribute	Remarks
1.1. Sex	 <p>Detailed description: A horizontal stacked bar chart showing the gender distribution of respondents. The y-axis lists 'Total', 'Bamoil', 'Kalikapur', 'Joypur south', 'Joypur north', 'Hatigara', and 'Raicho'. The x-axis represents percentages from 0% to 100%. Blue represents Male and red represents Female. In all locations, males constitute approximately 70-80% of the respondents.</p>	
1.2. Age	 <p>Detailed description: A horizontal stacked bar chart showing the age distribution of respondents. The y-axis lists 'Total', 'Bamoil', 'Kalikapur', 'Joypur south', 'Joypur north', 'Hatigara', and 'Raicho'. The x-axis represents percentages from 0% to 100%. The legend includes age groups: Less than 20 (blue), 20-25 (red), 25-30 (green), 30-35 (cyan), 35-40 (purple), 40-45 (orange), 45-50 (dark blue), and 50 or above (grey). The 50 or above group is the most prominent in all locations.</p>	
1.3. Educational level	 <p>Detailed description: A horizontal stacked bar chart showing the literacy rate of respondents. The y-axis lists 'Total', 'Bamoil', 'Kalikapur', 'Joypur south', 'Joypur north', 'Hatigara', and 'Raicho'. The x-axis represents percentages from 0% to 100%. Blue represents Literate and red represents Illiterate. Literacy rates are high across all locations, with illiterate respondents making up about 10-20% of the total.</p>	<p>特に Joypur-South 村の識字率が低い。Joypur-North、Bamoill、Hatigara 村の識字率は、女性の回答率が 40%を占めるにもかかわらず高い。</p>
1.4. Main occupation of householder	 <p>Detailed description: A horizontal stacked bar chart showing the main occupations of householders. The y-axis lists 'Total', 'Bamoil', 'Kalikapur', 'Joypur south', 'Joypur north', 'Hatigara', and 'Raicho'. The x-axis represents percentages from 0% to 100%. The legend includes: Farmer (blue), Service holder (red), Small business with capital less than 5000 (green), Business with capital more than tk 5000 (cyan), Day labor (purple), Rickshaw/Van puller (orange), and Others (dark blue). Farmers are the most common occupation in all locations.</p>	<p>所謂專業は稀であり、農業を主体に、多くの住民は兼業の形態のある。</p>

<p>1.5. Do you have farm land?</p>	<table border="1"> <caption>Data for 1.5: Do you have farm land?</caption> <thead> <tr> <th>Village</th> <th>Yes (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~90</td> <td>~10</td> </tr> <tr> <td>Bamoil</td> <td>~95</td> <td>~5</td> </tr> <tr> <td>Kalikapur</td> <td>~85</td> <td>~15</td> </tr> <tr> <td>Joypur south</td> <td>~95</td> <td>~5</td> </tr> <tr> <td>Joypur north</td> <td>~75</td> <td>~25</td> </tr> <tr> <td>Hatigara</td> <td>~95</td> <td>~5</td> </tr> <tr> <td>Raicho</td> <td>~95</td> <td>~5</td> </tr> </tbody> </table>	Village	Yes (%)	No (%)	Total	~90	~10	Bamoil	~95	~5	Kalikapur	~85	~15	Joypur south	~95	~5	Joypur north	~75	~25	Hatigara	~95	~5	Raicho	~95	~5																																									
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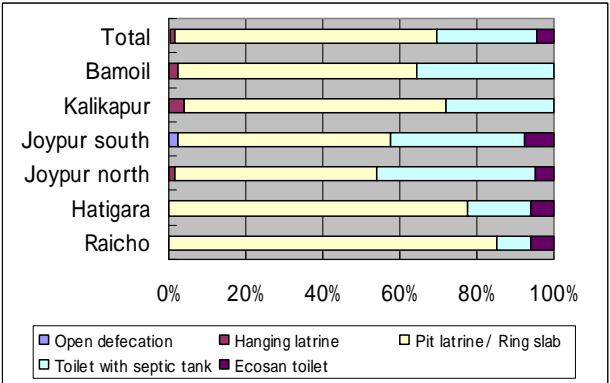
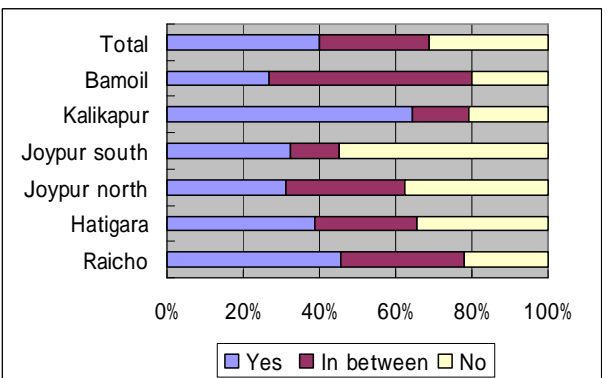
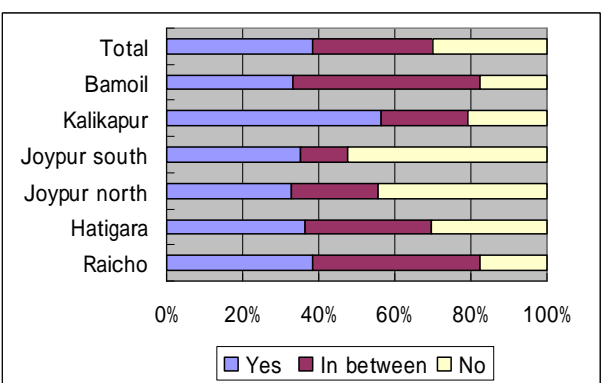
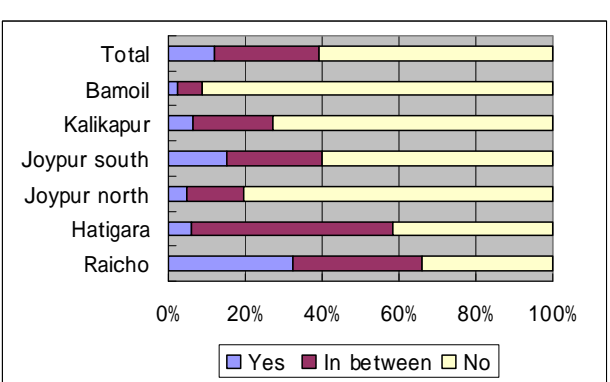
現在のトイレ使用状況（型式/使用状況/改善意思/改善理由等）

- ・ Joypur-North、South において、より衛生的なトイレが普及している。
- ・ Joypur-South 以外の村では、過半数が、トイレの汚さを感じている。
- ・ Joypur-South 以外の村では、過半数が、トイレの悪臭を感じている。
- ・ 約 40 %の住民が、トイレが子供にとって危険であることを認識している。

トイレは稀に混雑する。

- ・ 約 70%住民がトイレの改善を希望している。特に Raicho、Hatigara、Kalikapur の住民において著しい。

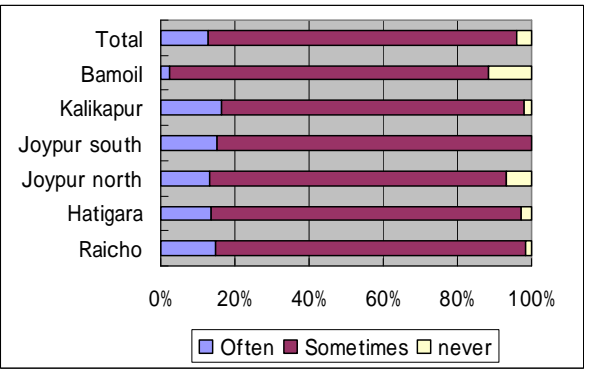
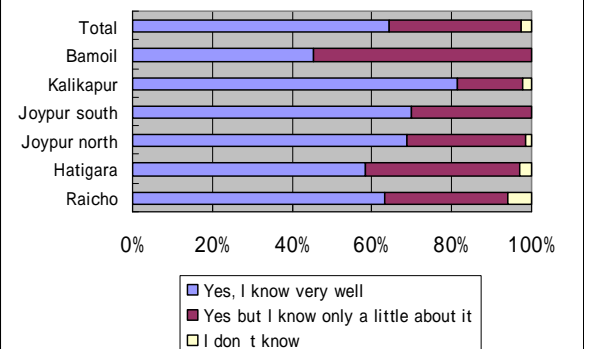
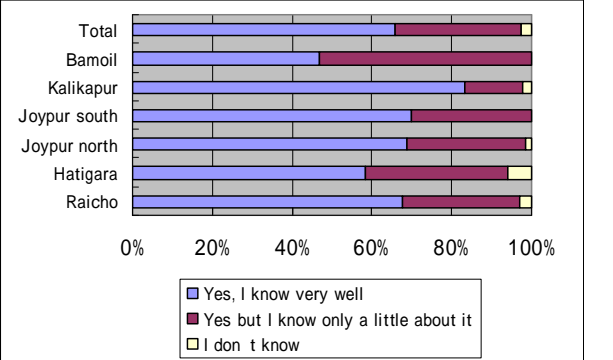
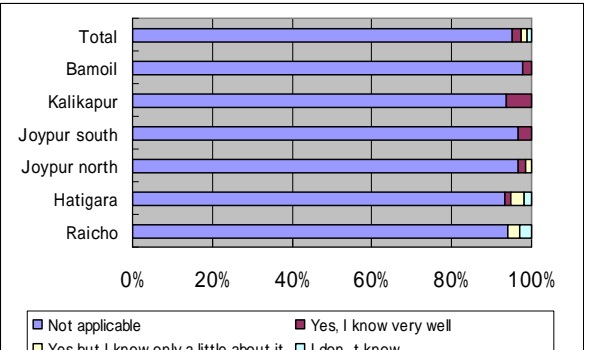
- ・ トイレの改善内容としては、臭いのない清潔なトイレをいつも使いたいという要望が多い。

	2. Current attitude towards your toilet	Remarks
2.1. Choose the toilet that you mainly use everyday	 <p>Stacked bar chart showing the percentage of different toilet types used in various villages. The x-axis represents the percentage from 0% to 100%. The y-axis lists the villages: Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, and Raicho. The legend includes: Open defecation (blue), Hanging latrine (red), Pit latrine/ Ring slab (yellow), Toilet with septic tank (light blue), and Ecosan toilet (purple).</p>	Joypur-North、 South において、より衛生的なトイレが普及している。
2.2.1. Dirty:	 <p>Stacked bar chart showing the percentage of responses (Yes, In between, No) regarding the dirtiness of toilets in various villages. The x-axis represents the percentage from 0% to 100%. The y-axis lists the villages: Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, and Raicho. The legend includes: Yes (blue), In between (red), and No (yellow).</p>	Joypur-South 以外の村では、過半数が、トイレの汚さを感じている。
2.2.2.Bad smell	 <p>Stacked bar chart showing the percentage of responses (Yes, In between, No) regarding the bad smell of toilets in various villages. The x-axis represents the percentage from 0% to 100%. The y-axis lists the villages: Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, and Raicho. The legend includes: Yes (blue), In between (red), and No (yellow).</p>	Joypur-South 以外の村では、過半数が、トイレの悪臭を感じている。
2.2.3. Dangerous for children	 <p>Stacked bar chart showing the percentage of responses (Yes, In between, No) regarding the danger of toilets for children in various villages. The x-axis represents the percentage from 0% to 100%. The y-axis lists the villages: Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, and Raicho. The legend includes: Yes (blue), In between (red), and No (yellow).</p>	約40%の住民が、トイレが子供にとって危険であることを認識している。

<p>2.2.4. Sometimes crowded by people/long line formed in front of latrine</p>	<table border="1"> <caption>Data for 2.2.4: Sometimes crowded by people/long line formed in front of latrine</caption> <thead> <tr> <th>Location</th> <th>Yes (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>10</td> <td>90</td> </tr> <tr> <td>Bamoil</td> <td>20</td> <td>80</td> </tr> <tr> <td>Kalikapur</td> <td>10</td> <td>90</td> </tr> <tr> <td>Joypur south</td> <td>5</td> <td>95</td> </tr> <tr> <td>Joypur north</td> <td>10</td> <td>90</td> </tr> <tr> <td>Hatigara</td> <td>15</td> <td>85</td> </tr> <tr> <td>Raicho</td> <td>15</td> <td>85</td> </tr> </tbody> </table>	Location	Yes (%)	No (%)	Total	10	90	Bamoil	20	80	Kalikapur	10	90	Joypur south	5	95	Joypur north	10	90	Hatigara	15	85	Raicho	15	85	<p>トイレは稀に混雑する。</p>																																								
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生活環境における健康/衛生観念（罹病頻度/汚染経路の認識等）

- ・ほとんどの住民は病気に罹っている。
- ・ほとんどの住民は、非衛生的な糞尿の取り扱いが病気と関連していることを知っている。
- ・ほとんどの住民は、池の水の汚染が非衛生的な糞尿の取り扱いと関連していることを知っている。
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- ・ほとんどの住民は、汚染された水の使用に関心を持っている。
- ・2006-07の一年間に、下痢症や熱病などの病気にかからなかった人は稀である。
- ・一家族あたり、年間、1500TK程度の医療支出がある。

	3. Current awareness of health and hygiene	Remarks																																								
<p>3.1. How often, in the first few yrs, have you pr your family suffered from high fever or diarrhea</p>	 <table border="1"> <caption>Data for 3.1: Frequency of illness</caption> <thead> <tr> <th>Location</th> <th>Often (%)</th> <th>Sometimes (%)</th> <th>never (%)</th> </tr> </thead> <tbody> <tr><td>Total</td><td>15</td><td>80</td><td>5</td></tr> <tr><td>Bamoil</td><td>5</td><td>85</td><td>10</td></tr> <tr><td>Kalikapur</td><td>15</td><td>80</td><td>5</td></tr> <tr><td>Joypur south</td><td>15</td><td>80</td><td>5</td></tr> <tr><td>Joypur north</td><td>15</td><td>80</td><td>5</td></tr> <tr><td>Hatigara</td><td>15</td><td>80</td><td>5</td></tr> <tr><td>Raicho</td><td>15</td><td>80</td><td>5</td></tr> </tbody> </table>	Location	Often (%)	Sometimes (%)	never (%)	Total	15	80	5	Bamoil	5	85	10	Kalikapur	15	80	5	Joypur south	15	80	5	Joypur north	15	80	5	Hatigara	15	80	5	Raicho	15	80	5	<p>ほとんどの住民は病気に罹っている。</p>								
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<p>3.5. Are you concerned about using polluted water</p>	<table border="1"> <caption>Data for 3.5: Concern about using polluted water</caption> <thead> <tr> <th>Location</th> <th>I am concerned about pollution (%)</th> <th>I am a little concerned (%)</th> <th>I don't mind any pollution (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~68</td> <td>~32</td> <td>0</td> </tr> <tr> <td>Bamoil</td> <td>~42</td> <td>~58</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>~88</td> <td>~12</td> <td>0</td> </tr> <tr> <td>Joypur south</td> <td>~72</td> <td>~28</td> <td>0</td> </tr> <tr> <td>Joypur north</td> <td>~75</td> <td>~25</td> <td>0</td> </tr> <tr> <td>Hatigara</td> <td>~62</td> <td>~38</td> <td>0</td> </tr> <tr> <td>Raicho</td> <td>~72</td> <td>~28</td> <td>0</td> </tr> </tbody> </table>	Location	I am concerned about pollution (%)	I am a little concerned (%)	I don't mind any pollution (%)	Total	~68	~32	0	Bamoil	~42	~58	0	Kalikapur	~88	~12	0	Joypur south	~72	~28	0	Joypur north	~75	~25	0	Hatigara	~62	~38	0	Raicho	~72	~28	0	<p>ほとんどの住民は、汚染された水の使用に関心を持っている。</p>																								
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<p>3.6. Have you and your family suffered from fever or diarrhea in yr 2006-07</p>	<table border="1"> <caption>Data for 3.6: Family members with fever/diarrhea in 2006-07</caption> <thead> <tr> <th>Location</th> <th>Not applicable (%)</th> <th>1 person (%)</th> <th>2 person (%)</th> <th>3 person (%)</th> <th>4 person (%)</th> <th>5 person and above (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~5</td> <td>~10</td> <td>~25</td> <td>~15</td> <td>~40</td> <td>~5</td> </tr> <tr> <td>Bamoil</td> <td>~10</td> <td>~10</td> <td>~30</td> <td>~15</td> <td>~30</td> <td>~5</td> </tr> <tr> <td>Kalikapur</td> <td>~10</td> <td>~25</td> <td>~40</td> <td>~15</td> <td>~10</td> <td>~0</td> </tr> <tr> <td>Joypur south</td> <td>~5</td> <td>~10</td> <td>~25</td> <td>~20</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>Joypur north</td> <td>~5</td> <td>~10</td> <td>~25</td> <td>~20</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>Hatigara</td> <td>~5</td> <td>~15</td> <td>~25</td> <td>~15</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>Raicho</td> <td>~5</td> <td>~10</td> <td>~35</td> <td>~20</td> <td>~25</td> <td>~5</td> </tr> </tbody> </table>	Location	Not applicable (%)	1 person (%)	2 person (%)	3 person (%)	4 person (%)	5 person and above (%)	Total	~5	~10	~25	~15	~40	~5	Bamoil	~10	~10	~30	~15	~30	~5	Kalikapur	~10	~25	~40	~15	~10	~0	Joypur south	~5	~10	~25	~20	~35	~5	Joypur north	~5	~10	~25	~20	~35	~5	Hatigara	~5	~15	~25	~15	~35	~5	Raicho	~5	~10	~35	~20	~25	~5	<p>2006-07の一年間に、下痢症や熱病などの病気にかからなかった人は稀である。</p>
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トイレ・排泄物に対する意識・行動（管理/排泄物との接触/運搬等）

- ・ほとんどの住民はなんらかのトイレの掃除をしている。
- ・が、住民の半数以上は、トイレ掃除に拒否感を抱いている。
- ・半数以上の住民は、毎日トイレの掃除をしている。
- ・約80%近い人々は、トイレの汲み出しをしたことはない。
- ・約80%を超える住民は、トイレの排泄物の運搬を忌避している。
- ・約80%の住民は、トイレ掃除人に、処分を任せている。
- ・約60%のトイレは、一年間以内に満杯となる。（満杯となると掃除人が処分する、一回当たりの費用は200-400tk）

- ・多くの既存のトイレは、5年以上使われている。
- ・既存のトイレ建設費は、2000-3000tkと想定される。高価なものは、上部構造（レンガ造りの壁など）に依存する。

	4. Performance on toilet and human excreta	Remarks																																																
4.1. Are you doing anything to keep your toilet clean?	<table border="1"> <caption>Data for 4.1: Are you doing anything to keep your toilet clean?</caption> <thead> <tr> <th>Location</th> <th>Yes (%)</th> <th>Nothing in particular (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>90</td> <td>10</td> </tr> <tr> <td>Bamoil</td> <td>90</td> <td>10</td> </tr> <tr> <td>Kalikapur</td> <td>95</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>95</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>95</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>85</td> <td>15</td> </tr> <tr> <td>Raicho</td> <td>90</td> <td>10</td> </tr> </tbody> </table>	Location	Yes (%)	Nothing in particular (%)	Total	90	10	Bamoil	90	10	Kalikapur	95	5	Joypur south	95	5	Joypur north	95	5	Hatigara	85	15	Raicho	90	10	ほとんどの住民はなんらかのトイレの掃除をしている。																								
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4.2. Is cleaning the toilet a dreadful job?	<table border="1"> <caption>Data for 4.2: Is cleaning the toilet a dreadful job?</caption> <thead> <tr> <th>Location</th> <th>Yes (%)</th> <th>In between (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>25</td> <td>40</td> <td>35</td> </tr> <tr> <td>Bamoil</td> <td>45</td> <td>50</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>20</td> <td>25</td> <td>55</td> </tr> <tr> <td>Joypur south</td> <td>5</td> <td>35</td> <td>60</td> </tr> <tr> <td>Joypur north</td> <td>50</td> <td>25</td> <td>25</td> </tr> <tr> <td>Hatigara</td> <td>10</td> <td>60</td> <td>30</td> </tr> <tr> <td>Raicho</td> <td>20</td> <td>40</td> <td>40</td> </tr> </tbody> </table>	Location	Yes (%)	In between (%)	No (%)	Total	25	40	35	Bamoil	45	50	5	Kalikapur	20	25	55	Joypur south	5	35	60	Joypur north	50	25	25	Hatigara	10	60	30	Raicho	20	40	40	が、住民の半数以上は、トイレ掃除に拒否感を抱いている。																
Location	Yes (%)	In between (%)	No (%)																																															
Total	25	40	35																																															
Bamoil	45	50	5																																															
Kalikapur	20	25	55																																															
Joypur south	5	35	60																																															
Joypur north	50	25	25																																															
Hatigara	10	60	30																																															
Raicho	20	40	40																																															
4.3. What is the frequency of cleaning toilet?	<table border="1"> <caption>Data for 4.3: What is the frequency of cleaning toilet?</caption> <thead> <tr> <th>Location</th> <th>Everyday (%)</th> <th>Once a two days (%)</th> <th>Once a three days (%)</th> <th>Once in a week (%)</th> <th>It rarely does (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>50</td> <td>25</td> <td>15</td> <td>10</td> <td>0</td> </tr> <tr> <td>Bamoil</td> <td>60</td> <td>25</td> <td>10</td> <td>5</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>70</td> <td>15</td> <td>10</td> <td>5</td> <td>0</td> </tr> <tr> <td>Joypur south</td> <td>60</td> <td>20</td> <td>15</td> <td>5</td> <td>0</td> </tr> <tr> <td>Joypur north</td> <td>55</td> <td>25</td> <td>15</td> <td>5</td> <td>0</td> </tr> <tr> <td>Hatigara</td> <td>60</td> <td>25</td> <td>10</td> <td>5</td> <td>0</td> </tr> <tr> <td>Raicho</td> <td>20</td> <td>25</td> <td>20</td> <td>35</td> <td>0</td> </tr> </tbody> </table>	Location	Everyday (%)	Once a two days (%)	Once a three days (%)	Once in a week (%)	It rarely does (%)	Total	50	25	15	10	0	Bamoil	60	25	10	5	0	Kalikapur	70	15	10	5	0	Joypur south	60	20	15	5	0	Joypur north	55	25	15	5	0	Hatigara	60	25	10	5	0	Raicho	20	25	20	35	0	半数以上の住民は、毎日トイレの掃除をしている。
Location	Everyday (%)	Once a two days (%)	Once a three days (%)	Once in a week (%)	It rarely does (%)																																													
Total	50	25	15	10	0																																													
Bamoil	60	25	10	5	0																																													
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Hatigara	60	25	10	5	0																																													
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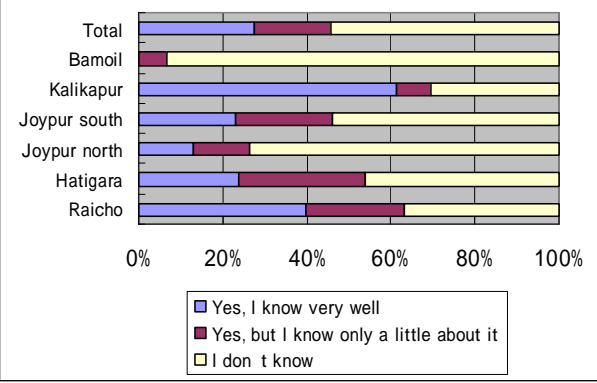
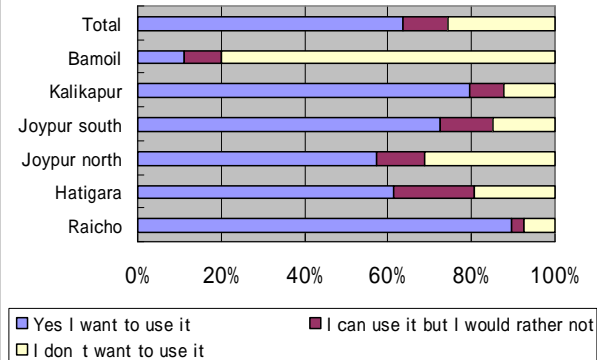
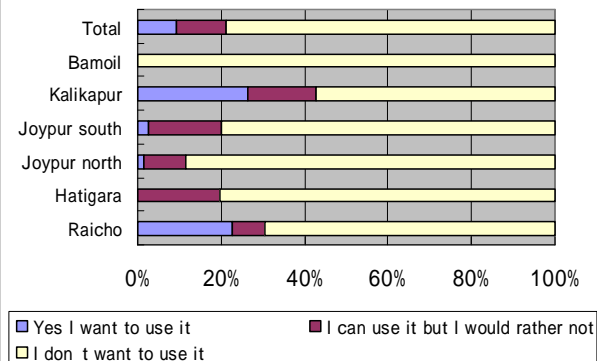
<p>4.4. Have you ever dipped up the pit</p>	<table border="1"> <caption>Data for Question 4.4: Experience with dipping up pits</caption> <thead> <tr> <th>Location</th> <th>Yes I have experience (%)</th> <th>No I have never done such a work (%)</th> </tr> </thead> <tbody> <tr><td>Total</td><td>25</td><td>75</td></tr> <tr><td>Bamoil</td><td>5</td><td>95</td></tr> <tr><td>Kalikapur</td><td>25</td><td>75</td></tr> <tr><td>Joypur south</td><td>45</td><td>55</td></tr> <tr><td>Joypur north</td><td>25</td><td>75</td></tr> <tr><td>Hatigara</td><td>25</td><td>75</td></tr> <tr><td>Raicho</td><td>30</td><td>70</td></tr> </tbody> </table>	Location	Yes I have experience (%)	No I have never done such a work (%)	Total	25	75	Bamoil	5	95	Kalikapur	25	75	Joypur south	45	55	Joypur north	25	75	Hatigara	25	75	Raicho	30	70	<p>約 80%近い人々は、トイレの汲み出しをしたことはない。</p>																
Location	Yes I have experience (%)	No I have never done such a work (%)																																								
Total	25	75																																								
Bamoil	5	95																																								
Kalikapur	25	75																																								
Joypur south	45	55																																								
Joypur north	25	75																																								
Hatigara	25	75																																								
Raicho	30	70																																								
<p>4.6. Do you think it is disgusting and dirty to convey excreta?</p>	<table border="1"> <caption>Data for Question 4.6: Opinions on conveying excreta</caption> <thead> <tr> <th>Location</th> <th>It is disgusting and dirty (%)</th> <th>It is a little disgusting and dirty (%)</th> <th>It is not disgusting and dirty (%)</th> </tr> </thead> <tbody> <tr><td>Total</td><td>25</td><td>60</td><td>15</td></tr> <tr><td>Bamoil</td><td>60</td><td>40</td><td>0</td></tr> <tr><td>Kalikapur</td><td>25</td><td>55</td><td>20</td></tr> <tr><td>Joypur south</td><td>5</td><td>65</td><td>30</td></tr> <tr><td>Joypur north</td><td>20</td><td>65</td><td>15</td></tr> <tr><td>Hatigara</td><td>15</td><td>75</td><td>10</td></tr> <tr><td>Raicho</td><td>30</td><td>50</td><td>20</td></tr> </tbody> </table>	Location	It is disgusting and dirty (%)	It is a little disgusting and dirty (%)	It is not disgusting and dirty (%)	Total	25	60	15	Bamoil	60	40	0	Kalikapur	25	55	20	Joypur south	5	65	30	Joypur north	20	65	15	Hatigara	15	75	10	Raicho	30	50	20	<p>約 80%を越える住民は、トイレの排泄物の運搬を忌避している。</p>								
Location	It is disgusting and dirty (%)	It is a little disgusting and dirty (%)	It is not disgusting and dirty (%)																																							
Total	25	60	15																																							
Bamoil	60	40	0																																							
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Joypur north	20	65	15																																							
Hatigara	15	75	10																																							
Raicho	30	50	20																																							
<p>4.8. If your pit is full, than what do you treat your human excreta?</p>	<table border="1"> <caption>Data for Question 4.8: Treatment of human excreta</caption> <thead> <tr> <th>Location</th> <th>Treat by sweeper (%)</th> <th>Treat by yourself (%)</th> <th>Construct another pit (%)</th> <th>Agricultural use as fertilizer (%)</th> </tr> </thead> <tbody> <tr><td>Total</td><td>75</td><td>25</td><td>0</td><td>0</td></tr> <tr><td>Bamoil</td><td>95</td><td>5</td><td>0</td><td>0</td></tr> <tr><td>Kalikapur</td><td>80</td><td>20</td><td>0</td><td>0</td></tr> <tr><td>Joypur south</td><td>65</td><td>35</td><td>0</td><td>0</td></tr> <tr><td>Joypur north</td><td>75</td><td>25</td><td>0</td><td>0</td></tr> <tr><td>Hatigara</td><td>75</td><td>25</td><td>0</td><td>0</td></tr> <tr><td>Raicho</td><td>70</td><td>30</td><td>0</td><td>0</td></tr> </tbody> </table>	Location	Treat by sweeper (%)	Treat by yourself (%)	Construct another pit (%)	Agricultural use as fertilizer (%)	Total	75	25	0	0	Bamoil	95	5	0	0	Kalikapur	80	20	0	0	Joypur south	65	35	0	0	Joypur north	75	25	0	0	Hatigara	75	25	0	0	Raicho	70	30	0	0	<p>約 80%の住民は、トイレ掃除人に、処分を任せられている。</p>
Location	Treat by sweeper (%)	Treat by yourself (%)	Construct another pit (%)	Agricultural use as fertilizer (%)																																						
Total	75	25	0	0																																						
Bamoil	95	5	0	0																																						
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Hatigara	75	25	0	0																																						
Raicho	70	30	0	0																																						
<p>4.9. How long have you to use pit untill full?</p>	<table border="1"> <caption>Data for Question 4.9: Duration of pit use until full</caption> <thead> <tr> <th>Location</th> <th>Within one year (%)</th> <th>1-2 yrs (%)</th> <th>over 3 yrs (%)</th> </tr> </thead> <tbody> <tr><td>Total</td><td>60</td><td>20</td><td>20</td></tr> <tr><td>Bamoil</td><td>50</td><td>30</td><td>20</td></tr> <tr><td>Kalikapur</td><td>60</td><td>5</td><td>35</td></tr> <tr><td>Joypur south</td><td>65</td><td>20</td><td>15</td></tr> <tr><td>Joypur north</td><td>50</td><td>15</td><td>35</td></tr> <tr><td>Hatigara</td><td>65</td><td>20</td><td>15</td></tr> <tr><td>Raicho</td><td>65</td><td>25</td><td>10</td></tr> </tbody> </table>	Location	Within one year (%)	1-2 yrs (%)	over 3 yrs (%)	Total	60	20	20	Bamoil	50	30	20	Kalikapur	60	5	35	Joypur south	65	20	15	Joypur north	50	15	35	Hatigara	65	20	15	Raicho	65	25	10	<p>約 60%のトイレは、一年間以内に満杯となる。 (満杯となると掃除人が処分する、一回当たりの費用は 200-400tk)</p>								
Location	Within one year (%)	1-2 yrs (%)	over 3 yrs (%)																																							
Total	60	20	20																																							
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Joypur north	50	15	35																																							
Hatigara	65	20	15																																							
Raicho	65	25	10																																							

<p>4.10. How many yrs have you use your current toilet?</p>	<table border="1"> <caption>Duration of Current Toilet Use</caption> <thead> <tr> <th>Location</th> <th>Within one year</th> <th>1-2 yrs</th> <th>2-5 yrs</th> <th>Over 5 yrs</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~2%</td> <td>~2%</td> <td>~16%</td> <td>~80%</td> </tr> <tr> <td>Bamoil</td> <td>~2%</td> <td>~2%</td> <td>~16%</td> <td>~80%</td> </tr> <tr> <td>Kalikapur</td> <td>~2%</td> <td>~2%</td> <td>~16%</td> <td>~80%</td> </tr> <tr> <td>Joypur south</td> <td>~2%</td> <td>~2%</td> <td>~16%</td> <td>~80%</td> </tr> <tr> <td>Joypur north</td> <td>~2%</td> <td>~2%</td> <td>~16%</td> <td>~80%</td> </tr> <tr> <td>Hatigara</td> <td>~2%</td> <td>~2%</td> <td>~34%</td> <td>~62%</td> </tr> <tr> <td>Raicho</td> <td>~2%</td> <td>~2%</td> <td>~20%</td> <td>~76%</td> </tr> </tbody> </table>	Location	Within one year	1-2 yrs	2-5 yrs	Over 5 yrs	Total	~2%	~2%	~16%	~80%	Bamoil	~2%	~2%	~16%	~80%	Kalikapur	~2%	~2%	~16%	~80%	Joypur south	~2%	~2%	~16%	~80%	Joypur north	~2%	~2%	~16%	~80%	Hatigara	~2%	~2%	~34%	~62%	Raicho	~2%	~2%	~20%	~76%	<p>多くの既存のトイレは、5年以上使われている。</p>																
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Total	~2%	~2%	~16%	~80%																																																						
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<p>4.11. How much was your current toilet construction cost?</p>	<table border="1"> <caption>Current Toilet Construction Cost</caption> <thead> <tr> <th>Location</th> <th>Below 1000</th> <th>1000-3000</th> <th>3000-5000</th> <th>5000-7000</th> <th>7000-9000</th> <th>9000+</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Bamoil</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Kalikapur</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Joypur south</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Joypur north</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Hatigara</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> <tr> <td>Raicho</td> <td>~2%</td> <td>~60%</td> <td>~10%</td> <td>~2%</td> <td>~2%</td> <td>~24%</td> </tr> </tbody> </table>	Location	Below 1000	1000-3000	3000-5000	5000-7000	7000-9000	9000+	Total	~2%	~60%	~10%	~2%	~2%	~24%	Bamoil	~2%	~60%	~10%	~2%	~2%	~24%	Kalikapur	~2%	~60%	~10%	~2%	~2%	~24%	Joypur south	~2%	~60%	~10%	~2%	~2%	~24%	Joypur north	~2%	~60%	~10%	~2%	~2%	~24%	Hatigara	~2%	~60%	~10%	~2%	~2%	~24%	Raicho	~2%	~60%	~10%	~2%	~2%	~24%	<p>既存のトイレ建設費は、2000-3000tk と想定される。高価なものは、上部構造(レンガ造りの壁など)に依存する。</p>
Location	Below 1000	1000-3000	3000-5000	5000-7000	7000-9000	9000+																																																				
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排泄物の利用に対する知識と意思 (肥料・ガス利用)

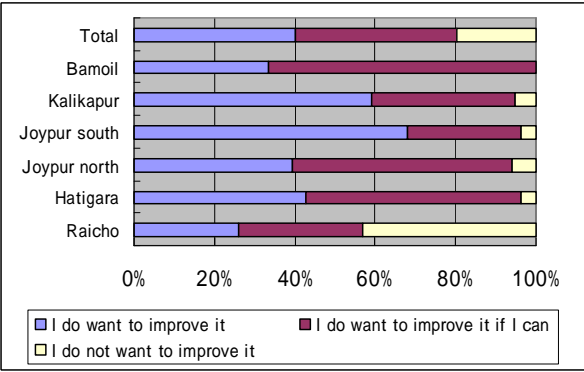
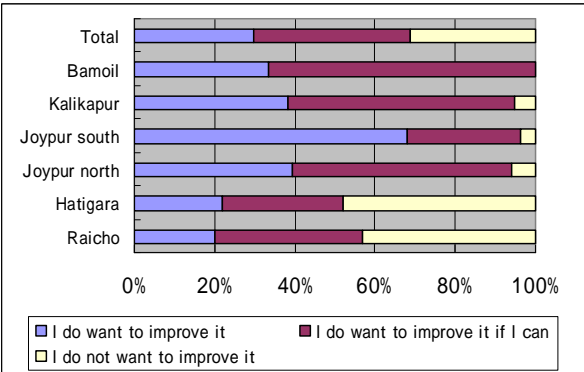
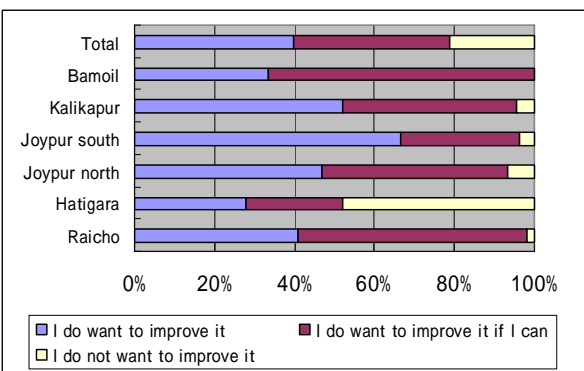
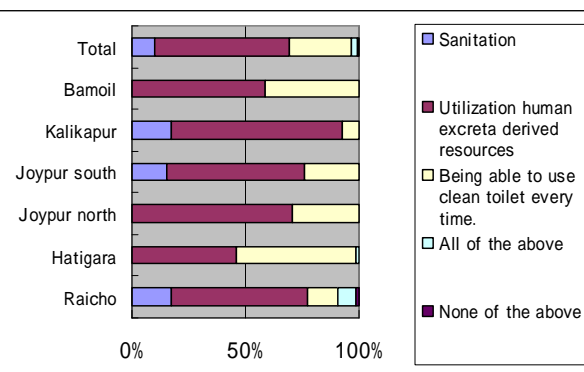
- ・ Bamoil を除く村人のほとんどが、し尿の肥料利用を知っている。
- ・ Bamoil を除く村人の半数が、し尿のガス利用を知っている。但し、肥料利用の約半数以下である。
- ・ Bamoil を除く村人のほとんどが、し尿の肥料利用を欲している。
- ・ し尿のガス利用に対する住民の要望は小さい。(村にかつて導入された実績はあるが、いずれも失敗に終わったようである。)

5. Regarding utilization of human excreta		Remarks																																
<p>Fertilizer</p>	<table border="1"> <caption>Knowledge of Human Excreta Utilization</caption> <thead> <tr> <th>Location</th> <th>Yes, I know very well</th> <th>Yes, but I know only a little about it</th> <th>I don't know</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> <tr> <td>Bamoil</td> <td>~2%</td> <td>~20%</td> <td>~78%</td> </tr> <tr> <td>Kalikapur</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> <tr> <td>Joypur south</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> <tr> <td>Joypur north</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> <tr> <td>Hatigara</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> <tr> <td>Raicho</td> <td>~65%</td> <td>~20%</td> <td>~15%</td> </tr> </tbody> </table>	Location	Yes, I know very well	Yes, but I know only a little about it	I don't know	Total	~65%	~20%	~15%	Bamoil	~2%	~20%	~78%	Kalikapur	~65%	~20%	~15%	Joypur south	~65%	~20%	~15%	Joypur north	~65%	~20%	~15%	Hatigara	~65%	~20%	~15%	Raicho	~65%	~20%	~15%	<p>Bamoil を除く村人のほとんどが、し尿の肥料利用を知っている。</p>
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<p>Fuel gas</p>	 <table border="1"> <caption>Knowledge of Gas Utilization</caption> <thead> <tr> <th>Category</th> <th>Yes, I know very well (%)</th> <th>Yes, but I know only a little about it (%)</th> <th>I don't know (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>28</td> <td>18</td> <td>54</td> </tr> <tr> <td>Bamoil</td> <td>5</td> <td>10</td> <td>85</td> </tr> <tr> <td>Kalikapur</td> <td>65</td> <td>10</td> <td>25</td> </tr> <tr> <td>Joypur south</td> <td>25</td> <td>25</td> <td>50</td> </tr> <tr> <td>Joypur north</td> <td>15</td> <td>15</td> <td>70</td> </tr> <tr> <td>Hatigara</td> <td>25</td> <td>30</td> <td>45</td> </tr> <tr> <td>Raicho</td> <td>40</td> <td>25</td> <td>35</td> </tr> </tbody> </table>	Category	Yes, I know very well (%)	Yes, but I know only a little about it (%)	I don't know (%)	Total	28	18	54	Bamoil	5	10	85	Kalikapur	65	10	25	Joypur south	25	25	50	Joypur north	15	15	70	Hatigara	25	30	45	Raicho	40	25	35	<p>Bamoil を除く村人の半数が、し尿のガス利用を知っている。但し、肥料利用の約半数以下である。</p>
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Total	28	18	54																															
Bamoil	5	10	85																															
Kalikapur	65	10	25																															
Joypur south	25	25	50																															
Joypur north	15	15	70																															
Hatigara	25	30	45																															
Raicho	40	25	35																															
<p>Fertilizer: made from excreta</p>	 <table border="1"> <caption>Willingness to Use Fertilizer</caption> <thead> <tr> <th>Category</th> <th>Yes I want to use it (%)</th> <th>I can use it but I would rather not (%)</th> <th>I don't want to use it (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>65</td> <td>10</td> <td>25</td> </tr> <tr> <td>Bamoil</td> <td>10</td> <td>10</td> <td>80</td> </tr> <tr> <td>Kalikapur</td> <td>80</td> <td>10</td> <td>10</td> </tr> <tr> <td>Joypur south</td> <td>70</td> <td>15</td> <td>15</td> </tr> <tr> <td>Joypur north</td> <td>55</td> <td>15</td> <td>30</td> </tr> <tr> <td>Hatigara</td> <td>60</td> <td>20</td> <td>20</td> </tr> <tr> <td>Raicho</td> <td>90</td> <td>5</td> <td>5</td> </tr> </tbody> </table>	Category	Yes I want to use it (%)	I can use it but I would rather not (%)	I don't want to use it (%)	Total	65	10	25	Bamoil	10	10	80	Kalikapur	80	10	10	Joypur south	70	15	15	Joypur north	55	15	30	Hatigara	60	20	20	Raicho	90	5	5	<p>Bamoil を除く村人のほとんどが、し尿の肥料利用を欲している。</p>
Category	Yes I want to use it (%)	I can use it but I would rather not (%)	I don't want to use it (%)																															
Total	65	10	25																															
Bamoil	10	10	80																															
Kalikapur	80	10	10																															
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Hatigara	60	20	20																															
Raicho	90	5	5																															
<p>Fuel gas: made from excreta</p>	 <table border="1"> <caption>Willingness to Use Gas</caption> <thead> <tr> <th>Category</th> <th>Yes I want to use it (%)</th> <th>I can use it but I would rather not (%)</th> <th>I don't want to use it (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>10</td> <td>10</td> <td>80</td> </tr> <tr> <td>Bamoil</td> <td>0</td> <td>0</td> <td>100</td> </tr> <tr> <td>Kalikapur</td> <td>25</td> <td>15</td> <td>60</td> </tr> <tr> <td>Joypur south</td> <td>5</td> <td>15</td> <td>80</td> </tr> <tr> <td>Joypur north</td> <td>5</td> <td>10</td> <td>85</td> </tr> <tr> <td>Hatigara</td> <td>0</td> <td>20</td> <td>80</td> </tr> <tr> <td>Raicho</td> <td>25</td> <td>5</td> <td>70</td> </tr> </tbody> </table>	Category	Yes I want to use it (%)	I can use it but I would rather not (%)	I don't want to use it (%)	Total	10	10	80	Bamoil	0	0	100	Kalikapur	25	15	60	Joypur south	5	15	80	Joypur north	5	10	85	Hatigara	0	20	80	Raicho	25	5	70	<p>し尿のガス利用に対する住民の要望は小さい。(村にかつて導入された実績はあるが、いずれも失敗に終わったようである。)</p>
Category	Yes I want to use it (%)	I can use it but I would rather not (%)	I don't want to use it (%)																															
Total	10	10	80																															
Bamoil	0	0	100																															
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Raicho	25	5	70																															

衛生改善・資源利用型トイレの改善意思と支払い意思/方法

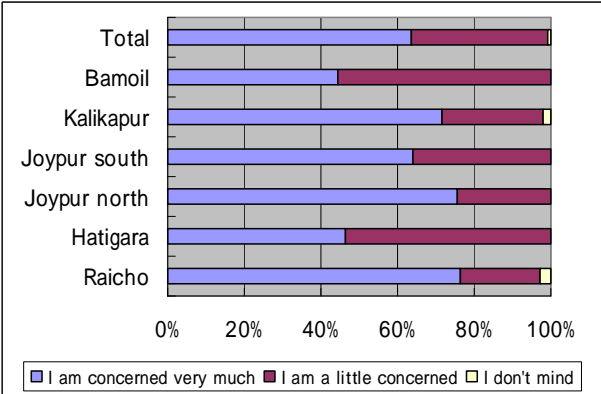
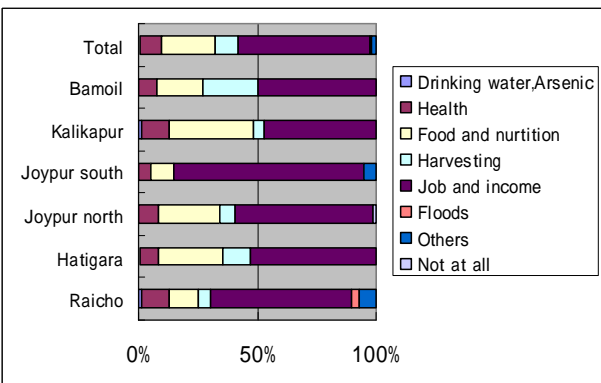
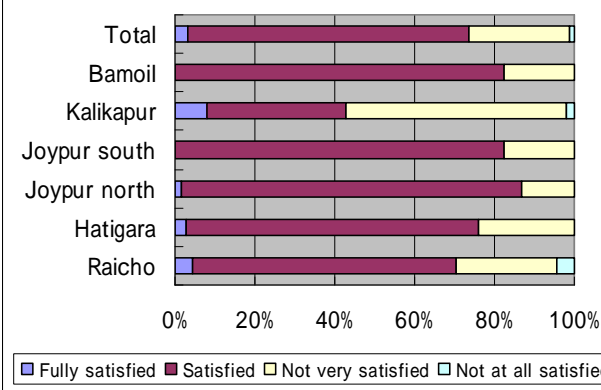
- ・トイレの改善を欲する住民の80%が、より衛生的な改善を欲している。
- ・トイレの改善を欲する住民の60%以上が、し尿の資源利用を欲している。
- ・トイレの改善を欲する住民の60%以上が、洪水時での容易な利用を欲している。
- ・トイレ改善の主な選好は、資源利用である。
- ・ほとんどの住民は、トイレ改善のための費用負担を認めている。

	6.1. Would you like to improve your toilet	Remarks																																																
6.1.1. More sanitary:	 <p>A stacked bar chart showing the percentage of respondents who want to improve their toilet, categorized by location (Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, Raicho). The x-axis represents the percentage from 0% to 100%. The legend indicates three categories: 'I do want to improve it' (blue), 'I do want to improve it if I can' (maroon), and 'I do not want to improve it' (yellow).</p> <table border="1"> <thead> <tr> <th>Location</th> <th>I do want to improve it (%)</th> <th>I do want to improve it if I can (%)</th> <th>I do not want to improve it (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>40</td> <td>40</td> <td>20</td> </tr> <tr> <td>Bamoil</td> <td>30</td> <td>70</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>60</td> <td>35</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>65</td> <td>30</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>Raicho</td> <td>25</td> <td>35</td> <td>40</td> </tr> </tbody> </table>	Location	I do want to improve it (%)	I do want to improve it if I can (%)	I do not want to improve it (%)	Total	40	40	20	Bamoil	30	70	0	Kalikapur	60	35	5	Joypur south	65	30	5	Joypur north	40	55	5	Hatigara	40	55	5	Raicho	25	35	40	<p>トイレの改善を欲する住民の 80%が、より衛生的な改善を欲している。</p>																
Location	I do want to improve it (%)	I do want to improve it if I can (%)	I do not want to improve it (%)																																															
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Hatigara	40	55	5																																															
Raicho	25	35	40																																															
6.1.2. Being able to use human excreta derived resources:	 <p>A stacked bar chart showing the percentage of respondents who want to improve their toilet, categorized by location (Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, Raicho). The x-axis represents the percentage from 0% to 100%. The legend indicates three categories: 'I do want to improve it' (blue), 'I do want to improve it if I can' (maroon), and 'I do not want to improve it' (yellow).</p> <table border="1"> <thead> <tr> <th>Location</th> <th>I do want to improve it (%)</th> <th>I do want to improve it if I can (%)</th> <th>I do not want to improve it (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>30</td> <td>40</td> <td>30</td> </tr> <tr> <td>Bamoil</td> <td>30</td> <td>70</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>65</td> <td>30</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>20</td> <td>35</td> <td>45</td> </tr> <tr> <td>Raicho</td> <td>20</td> <td>35</td> <td>45</td> </tr> </tbody> </table>	Location	I do want to improve it (%)	I do want to improve it if I can (%)	I do not want to improve it (%)	Total	30	40	30	Bamoil	30	70	0	Kalikapur	40	55	5	Joypur south	65	30	5	Joypur north	40	55	5	Hatigara	20	35	45	Raicho	20	35	45	<p>トイレの改善を欲する住民の 60%以上が、し尿の資源利用を欲している。</p>																
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Hatigara	20	35	45																																															
Raicho	20	35	45																																															
6.1.3. Being able to use clean toilet every time even during flood	 <p>A stacked bar chart showing the percentage of respondents who want to improve their toilet, categorized by location (Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, Raicho). The x-axis represents the percentage from 0% to 100%. The legend indicates three categories: 'I do want to improve it' (blue), 'I do want to improve it if I can' (maroon), and 'I do not want to improve it' (yellow).</p> <table border="1"> <thead> <tr> <th>Location</th> <th>I do want to improve it (%)</th> <th>I do want to improve it if I can (%)</th> <th>I do not want to improve it (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>40</td> <td>40</td> <td>20</td> </tr> <tr> <td>Bamoil</td> <td>30</td> <td>70</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>50</td> <td>45</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>65</td> <td>30</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>45</td> <td>50</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>25</td> <td>35</td> <td>40</td> </tr> <tr> <td>Raicho</td> <td>40</td> <td>55</td> <td>5</td> </tr> </tbody> </table>	Location	I do want to improve it (%)	I do want to improve it if I can (%)	I do not want to improve it (%)	Total	40	40	20	Bamoil	30	70	0	Kalikapur	50	45	5	Joypur south	65	30	5	Joypur north	45	50	5	Hatigara	25	35	40	Raicho	40	55	5	<p>トイレの改善を欲する住民の 60%以上が、洪水時での容易な利用を欲している。</p>																
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Joypur north	45	50	5																																															
Hatigara	25	35	40																																															
Raicho	40	55	5																																															
6.2. What is the most preferable performance if you improve your toilet?	 <p>A stacked bar chart showing the most preferable performance for toilet improvement, categorized by location (Total, Bamoil, Kalikapur, Joypur south, Joypur north, Hatigara, Raicho). The x-axis represents the percentage from 0% to 100%. The legend indicates five categories: 'Sanitation' (blue), 'Utilization human excreta derived resources' (maroon), 'Being able to use clean toilet every time.' (yellow), 'All of the above' (light blue), and 'None of the above' (dark maroon).</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Sanitation (%)</th> <th>Utilization human excreta derived resources (%)</th> <th>Being able to use clean toilet every time. (%)</th> <th>All of the above (%)</th> <th>None of the above (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>5</td> <td>60</td> <td>30</td> <td>5</td> <td>0</td> </tr> <tr> <td>Bamoil</td> <td>0</td> <td>55</td> <td>45</td> <td>0</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>10</td> <td>75</td> <td>15</td> <td>0</td> <td>0</td> </tr> <tr> <td>Joypur south</td> <td>10</td> <td>60</td> <td>30</td> <td>0</td> <td>0</td> </tr> <tr> <td>Joypur north</td> <td>0</td> <td>65</td> <td>35</td> <td>0</td> <td>0</td> </tr> <tr> <td>Hatigara</td> <td>0</td> <td>45</td> <td>55</td> <td>0</td> <td>0</td> </tr> <tr> <td>Raicho</td> <td>10</td> <td>60</td> <td>30</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Location	Sanitation (%)	Utilization human excreta derived resources (%)	Being able to use clean toilet every time. (%)	All of the above (%)	None of the above (%)	Total	5	60	30	5	0	Bamoil	0	55	45	0	0	Kalikapur	10	75	15	0	0	Joypur south	10	60	30	0	0	Joypur north	0	65	35	0	0	Hatigara	0	45	55	0	0	Raicho	10	60	30	0	0	<p>トイレ改善の主な選好は、資源利用である。</p>
Location	Sanitation (%)	Utilization human excreta derived resources (%)	Being able to use clean toilet every time. (%)	All of the above (%)	None of the above (%)																																													
Total	5	60	30	5	0																																													
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Raicho	10	60	30	0	0																																													

<p>6.3. Would you be willing to cost if you improve your toilet</p>	<table border="1"> <caption>Willingness to bear the cost for toilet improvement</caption> <thead> <tr> <th>Location</th> <th>Yes, I am willing to bear the cost (%)</th> <th>No, I don't want to bear the cost (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>95</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>95</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>95</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>95</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>90</td> <td>10</td> </tr> <tr> <td>Hatigara</td> <td>95</td> <td>5</td> </tr> <tr> <td>Raicho</td> <td>95</td> <td>5</td> </tr> </tbody> </table>	Location	Yes, I am willing to bear the cost (%)	No, I don't want to bear the cost (%)	Total	95	5	Bamoil	95	5	Kalikapur	95	5	Joypur south	95	5	Joypur north	90	10	Hatigara	95	5	Raicho	95	5	<p>ほとんどの住民は、トイレ改善のための費用負担を認めている。</p>
Location	Yes, I am willing to bear the cost (%)	No, I don't want to bear the cost (%)																								
Total	95	5																								
Bamoil	95	5																								
Kalikapur	95	5																								
Joypur south	95	5																								
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Raicho	95	5																								

- 日常生活の関心 (医療サービス / 生活の関心事 / 世間に対する関心 / 満足度等)
- ・多くの住民にとって薬の入手は容易である。
 - ・ひどい病気になったとき、病院や医者の手当は容易である。
 - ・ほとんどの住民は、飲み水のヒ素汚染を知っている。(この地域の飲み水は、砒素汚染されていない)
 - ・日常的な不安事は、雇用と所得、食料と栄養、健康、収穫などである。
 - ・約80%に近い住民は、日常的な満足感を抱いている。Kalikapur村のみ半数以上が不満を抱いている。

	7. Your daily life	Remarks																																
<p>7.1. Is the medicine easily available to you</p>	<table border="1"> <caption>Ease of getting medicine</caption> <thead> <tr> <th>Location</th> <th>Very easy to get (%)</th> <th>Not very difficult to get (%)</th> <th>Difficult to get (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>85</td> <td>10</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>45</td> <td>50</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>65</td> <td>20</td> <td>15</td> </tr> <tr> <td>Joypur south</td> <td>95</td> <td>5</td> <td>0</td> </tr> <tr> <td>Joypur north</td> <td>95</td> <td>5</td> <td>0</td> </tr> <tr> <td>Hatigara</td> <td>90</td> <td>10</td> <td>0</td> </tr> <tr> <td>Raicho</td> <td>95</td> <td>5</td> <td>0</td> </tr> </tbody> </table>	Location	Very easy to get (%)	Not very difficult to get (%)	Difficult to get (%)	Total	85	10	5	Bamoil	45	50	5	Kalikapur	65	20	15	Joypur south	95	5	0	Joypur north	95	5	0	Hatigara	90	10	0	Raicho	95	5	0	<p>多くの住民にとって薬の入手は容易である。</p>
Location	Very easy to get (%)	Not very difficult to get (%)	Difficult to get (%)																															
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Joypur north	95	5	0																															
Hatigara	90	10	0																															
Raicho	95	5	0																															
<p>7.2. Do you see a doctor or go to hospital when you become seriously ill?</p>	<table border="1"> <caption>Doctor visits when seriously ill</caption> <thead> <tr> <th>Location</th> <th>Yes I go to the doctors (%)</th> <th>Yes but only when I am seriously ill (%)</th> <th>No I can't (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>75</td> <td>20</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>35</td> <td>60</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>70</td> <td>15</td> <td>15</td> </tr> <tr> <td>Joypur south</td> <td>85</td> <td>10</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>95</td> <td>5</td> <td>0</td> </tr> <tr> <td>Hatigara</td> <td>75</td> <td>20</td> <td>5</td> </tr> <tr> <td>Raicho</td> <td>90</td> <td>10</td> <td>0</td> </tr> </tbody> </table>	Location	Yes I go to the doctors (%)	Yes but only when I am seriously ill (%)	No I can't (%)	Total	75	20	5	Bamoil	35	60	5	Kalikapur	70	15	15	Joypur south	85	10	5	Joypur north	95	5	0	Hatigara	75	20	5	Raicho	90	10	0	<p>ひどい病気になったとき、病院や医者の手当は容易である。</p>
Location	Yes I go to the doctors (%)	Yes but only when I am seriously ill (%)	No I can't (%)																															
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<p>7.3. Are you anxious about drinking water(Arsenic)</p>	 <table border="1"> <caption>Data for Figure 7.3: Anxiety about drinking water (Arsenic)</caption> <thead> <tr> <th>Village</th> <th>I am concerned very much (%)</th> <th>I am a little concerned (%)</th> <th>I don't mind (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>65</td> <td>30</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>45</td> <td>55</td> <td>0</td> </tr> <tr> <td>Kalikapur</td> <td>75</td> <td>20</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>65</td> <td>30</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>75</td> <td>20</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>45</td> <td>55</td> <td>0</td> </tr> <tr> <td>Raicho</td> <td>75</td> <td>20</td> <td>5</td> </tr> </tbody> </table>	Village	I am concerned very much (%)	I am a little concerned (%)	I don't mind (%)	Total	65	30	5	Bamoil	45	55	0	Kalikapur	75	20	5	Joypur south	65	30	5	Joypur north	75	20	5	Hatigara	45	55	0	Raicho	75	20	5	<p>ほとんどの住民は、飲み水のヒ素汚染を知っている。(この地域の飲み水は、砒素汚染されていない)</p>																																								
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<p>7.4. What worries you most right now(at least two options)</p>	 <table border="1"> <caption>Data for Figure 7.4: Most common worries</caption> <thead> <tr> <th>Village</th> <th>Drinking water, Arsenic (%)</th> <th>Health (%)</th> <th>Food and nutrition (%)</th> <th>Harvesting (%)</th> <th>Job and income (%)</th> <th>Floods (%)</th> <th>Others (%)</th> <th>Not at all (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Raicho</td> <td>5</td> <td>45</td> <td>15</td> <td>5</td> <td>25</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table>	Village	Drinking water, Arsenic (%)	Health (%)	Food and nutrition (%)	Harvesting (%)	Job and income (%)	Floods (%)	Others (%)	Not at all (%)	Total	5	45	15	5	25	5	5	5	Bamoil	5	45	15	5	25	5	5	5	Kalikapur	5	45	15	5	25	5	5	5	Joypur south	5	45	15	5	25	5	5	5	Joypur north	5	45	15	5	25	5	5	5	Hatigara	5	45	15	5	25	5	5	5	Raicho	5	45	15	5	25	5	5	5	<p>日常的な不安事は、雇用と所得、食料と栄養、健康、収穫などである。</p>
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Raicho	5	45	15	5	25	5	5	5																																																																		
<p>7.6. Are you satisfied with your current life</p>	 <table border="1"> <caption>Data for Figure 7.6: Satisfaction with current life</caption> <thead> <tr> <th>Village</th> <th>Fully satisfied (%)</th> <th>Satisfied (%)</th> <th>Not very satisfied (%)</th> <th>Not at all satisfied (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>5</td> <td>70</td> <td>20</td> <td>5</td> </tr> <tr> <td>Bamoil</td> <td>5</td> <td>75</td> <td>15</td> <td>5</td> </tr> <tr> <td>Kalikapur</td> <td>10</td> <td>30</td> <td>55</td> <td>5</td> </tr> <tr> <td>Joypur south</td> <td>5</td> <td>75</td> <td>15</td> <td>5</td> </tr> <tr> <td>Joypur north</td> <td>5</td> <td>75</td> <td>15</td> <td>5</td> </tr> <tr> <td>Hatigara</td> <td>5</td> <td>70</td> <td>20</td> <td>5</td> </tr> <tr> <td>Raicho</td> <td>5</td> <td>65</td> <td>25</td> <td>5</td> </tr> </tbody> </table>	Village	Fully satisfied (%)	Satisfied (%)	Not very satisfied (%)	Not at all satisfied (%)	Total	5	70	20	5	Bamoil	5	75	15	5	Kalikapur	10	30	55	5	Joypur south	5	75	15	5	Joypur north	5	75	15	5	Hatigara	5	70	20	5	Raicho	5	65	25	5	<p>約80%に近い住民は、日常的な満足感を抱いている。Kalikapur村のみ半数以上が不満を抱いている。</p>																																
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5-3-2. トイレに関する3属性 (User, New-User, Others) 間の比較分析

属性 (性別/年齢/修学/職業/土地所有/世帯構成等)

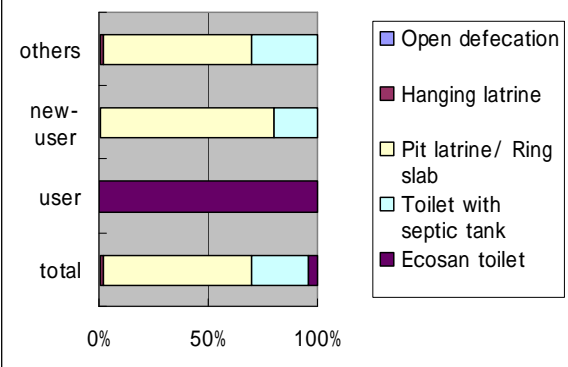
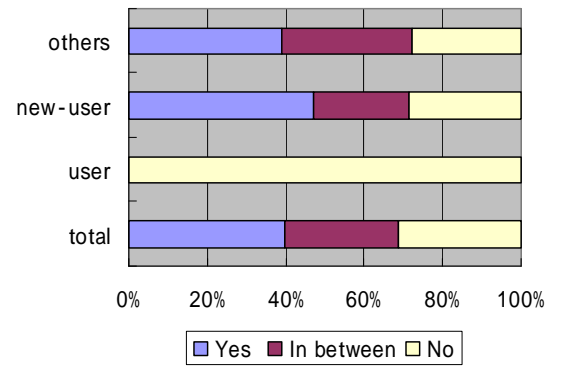
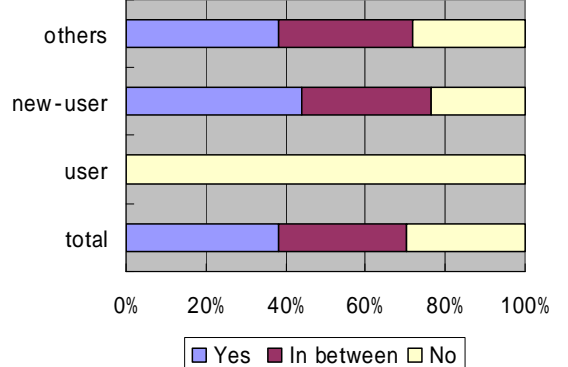
- ・エコサン・トイレ使用者は全てが識字可である。
- ・3属性間に職業構成の差異は無い。
- ・エコサン・トイレ使用者は全てが土地持ちである。
- ・エコサン・トイレ使用者のマイクロクレジット加入率は小さい。

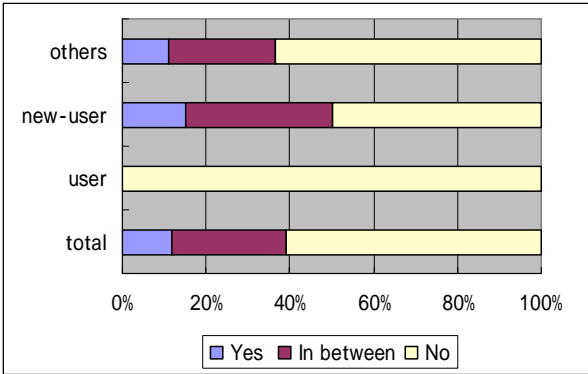
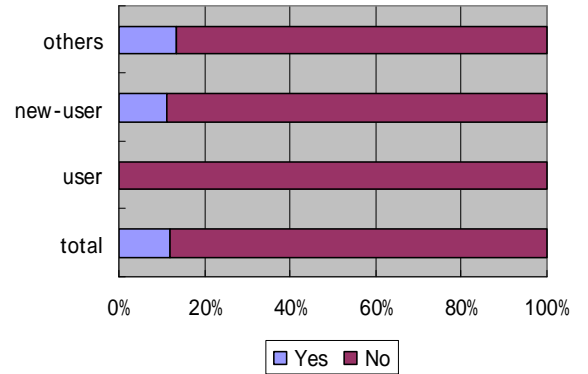
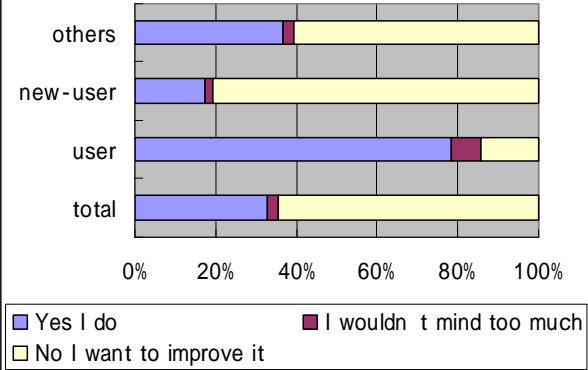
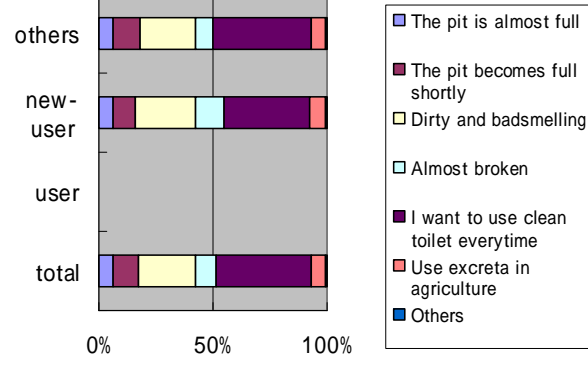
Item	1. Current attribute	Remarks																																								
1.1. Sex of the respondent	<table border="1"> <caption>Sex Distribution Data</caption> <thead> <tr> <th>Category</th> <th>Male (%)</th> <th>Female (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>75</td> <td>25</td> </tr> <tr> <td>new-user</td> <td>80</td> <td>20</td> </tr> <tr> <td>user</td> <td>95</td> <td>5</td> </tr> <tr> <td>total</td> <td>78</td> <td>22</td> </tr> </tbody> </table>	Category	Male (%)	Female (%)	others	75	25	new-user	80	20	user	95	5	total	78	22																										
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1.3. Educational level of the respondent	<table border="1"> <caption>Educational Level Data</caption> <thead> <tr> <th>Category</th> <th>Literate (%)</th> <th>Illiterate (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>85</td> <td>15</td> </tr> <tr> <td>new-user</td> <td>80</td> <td>20</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> </tr> <tr> <td>total</td> <td>85</td> <td>15</td> </tr> </tbody> </table>	Category	Literate (%)	Illiterate (%)	others	85	15	new-user	80	20	user	100	0	total	85	15	エコサン・トイレ使用者は全てが識字可である。																									
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1.4. Main occupation of householder	<table border="1"> <caption>Main Occupation Data</caption> <thead> <tr> <th>Category</th> <th>Farmer (%)</th> <th>Service holder (%)</th> <th>Small business with capital less than 5000 (%)</th> <th>Business with capital more than tk 5000 (%)</th> <th>Day labor (%)</th> <th>Rickshaw/Van puller (%)</th> <th>Others (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>55</td> <td>10</td> <td>10</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>new-user</td> <td>55</td> <td>10</td> <td>10</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>user</td> <td>65</td> <td>10</td> <td>10</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>total</td> <td>55</td> <td>10</td> <td>10</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table>	Category	Farmer (%)	Service holder (%)	Small business with capital less than 5000 (%)	Business with capital more than tk 5000 (%)	Day labor (%)	Rickshaw/Van puller (%)	Others (%)	others	55	10	10	10	5	5	5	new-user	55	10	10	10	5	5	5	user	65	10	10	10	5	5	5	total	55	10	10	10	5	5	5	3属性間に職業構成の差異は無い。
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total	55	10	10	10	5	5	5																																			

<p>1.5. Do you have farm land?</p>	<table border="1"> <caption>Data for 1.5: Do you have farm land?</caption> <thead> <tr> <th>Category</th> <th>Yes (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~85</td> <td>~15</td> </tr> <tr> <td>new-user</td> <td>~90</td> <td>~10</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> </tr> <tr> <td>total</td> <td>~88</td> <td>~12</td> </tr> </tbody> </table>	Category	Yes (%)	No (%)	others	~85	~15	new-user	~90	~10	user	100	0	total	~88	~12	<p>エコサン・トイレ使用者は全てが土地持ちである。</p>																									
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Category	Less than 20000 (%)	20000-40000 (%)	40000-60000 (%)	60000-80000 (%)	80000-100000 (%)	100000-120000 (%)	120000 or above (%)																																			
others	~10	~10	~10	~10	~10	~10	~40																																			
new-user	~10	~10	~10	~10	~10	~10	~40																																			
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<p>2.0. Do you(or any of your family member) join Microcredit?</p>	<table border="1"> <caption>Data for 2.0: Do you(or any of your family member) join Microcredit?</caption> <thead> <tr> <th>Category</th> <th>Yes (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~55</td> <td>~45</td> </tr> <tr> <td>new-user</td> <td>~55</td> <td>~45</td> </tr> <tr> <td>user</td> <td>~30</td> <td>~70</td> </tr> <tr> <td>total</td> <td>~55</td> <td>~45</td> </tr> </tbody> </table>	Category	Yes (%)	No (%)	others	~55	~45	new-user	~55	~45	user	~30	~70	total	~55	~45	<p>エコサン・トイレ使用者のマイクロクレジット加入率は小さい。</p>																									
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現在のトイレ使用状況（型式/使用状況/改善意思/改善理由等）

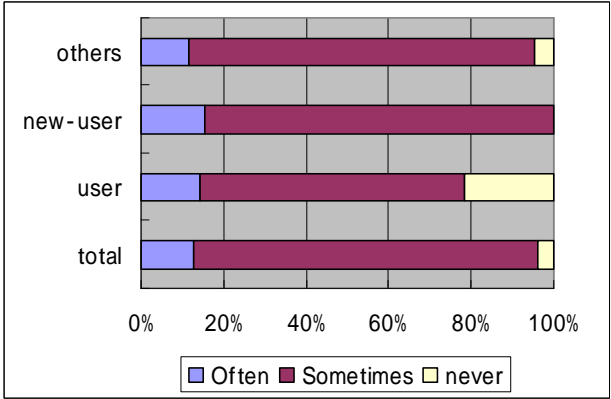
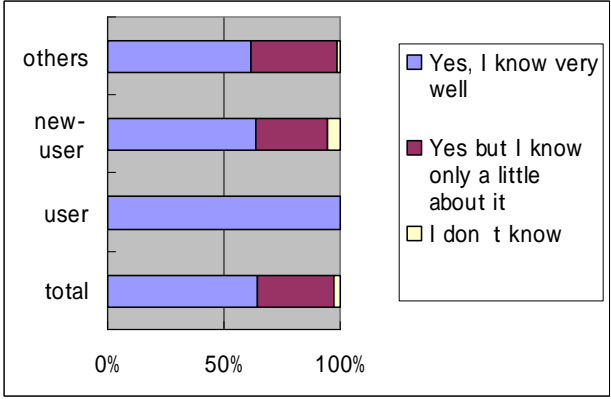
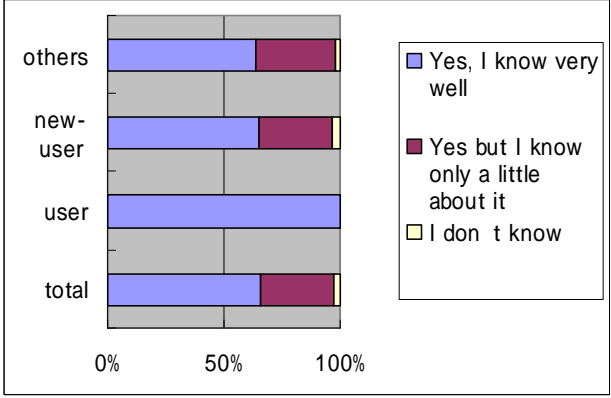
- ・エコサン・トイレ使用者の全てが、トイレが清潔であることを認識している。
- ・エコサン・トイレ使用者の全てが、トイレが臭いの無いことを認識している。
- ・エコサン・トイレ使用者の全てが、トイレが子供に安全であることを認識している。
- ・エコサン・トイレ使用者の多くは、今のトイレの使用を希望している、一方、ことにエコサン・トイレ希望者は現在のトイレの改善を要望している。
- ・トイレ改善要望は、きれいなトイレを使いたいということである。

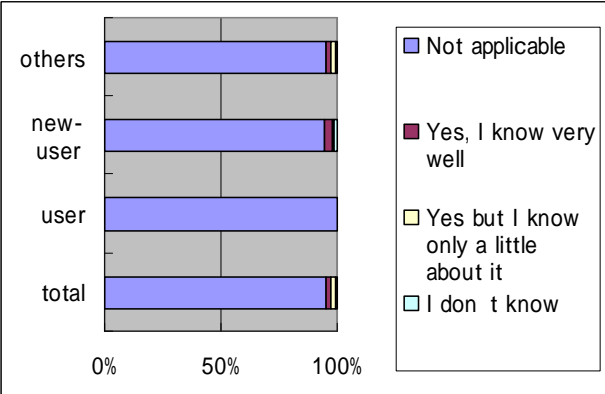
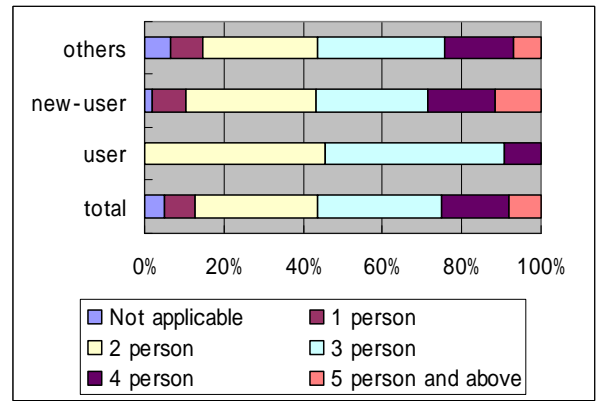
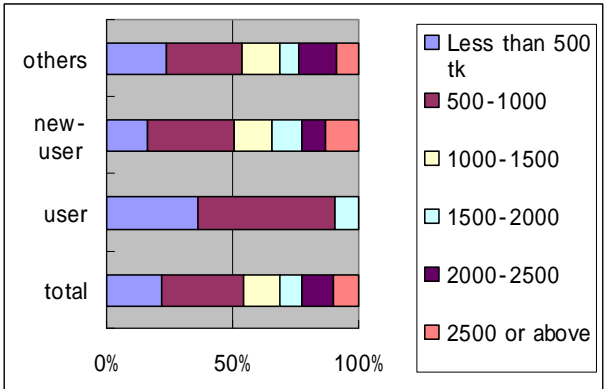
	2. Current attitude towards your toilet	Remarks																														
<p>2.1. Choose the toilet that you mainly use everyday</p>	 <table border="1"> <caption>Estimated data for Figure 2.1</caption> <thead> <tr> <th>Group</th> <th>Open defecation</th> <th>Hanging latrine</th> <th>Pit latrine/ Ring slab</th> <th>Toilet with septic tank</th> <th>Ecosan toilet</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>0%</td> <td>0%</td> <td>~75%</td> <td>~25%</td> <td>0%</td> </tr> <tr> <td>new-user</td> <td>0%</td> <td>0%</td> <td>~85%</td> <td>~15%</td> <td>0%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>100%</td> </tr> <tr> <td>total</td> <td>0%</td> <td>0%</td> <td>~75%</td> <td>~25%</td> <td>0%</td> </tr> </tbody> </table>	Group	Open defecation	Hanging latrine	Pit latrine/ Ring slab	Toilet with septic tank	Ecosan toilet	others	0%	0%	~75%	~25%	0%	new-user	0%	0%	~85%	~15%	0%	user	0%	0%	0%	0%	100%	total	0%	0%	~75%	~25%	0%	
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<p>2.2.1. Dirty:</p>	 <table border="1"> <caption>Estimated data for Figure 2.2.1</caption> <thead> <tr> <th>Group</th> <th>Yes</th> <th>In between</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~40%</td> <td>~30%</td> <td>~30%</td> </tr> <tr> <td>new-user</td> <td>~45%</td> <td>~25%</td> <td>~30%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>0%</td> <td>100%</td> </tr> <tr> <td>total</td> <td>~40%</td> <td>~30%</td> <td>~30%</td> </tr> </tbody> </table>	Group	Yes	In between	No	others	~40%	~30%	~30%	new-user	~45%	~25%	~30%	user	0%	0%	100%	total	~40%	~30%	~30%	<p>エコサン・トイレ使用者の全てが、トイレが清潔であることを認識している。</p>										
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user	0%	0%	100%																													
total	~40%	~30%	~30%																													
<p>2.2.2.Bad smell</p>	 <table border="1"> <caption>Estimated data for Figure 2.2.2</caption> <thead> <tr> <th>Group</th> <th>Yes</th> <th>In between</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~40%</td> <td>~30%</td> <td>~30%</td> </tr> <tr> <td>new-user</td> <td>~45%</td> <td>~30%</td> <td>~25%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>0%</td> <td>100%</td> </tr> <tr> <td>total</td> <td>~40%</td> <td>~30%</td> <td>~30%</td> </tr> </tbody> </table>	Group	Yes	In between	No	others	~40%	~30%	~30%	new-user	~45%	~30%	~25%	user	0%	0%	100%	total	~40%	~30%	~30%	<p>エコサン・トイレ使用者の全てが、トイレが臭いの無いことを認識している。</p>										
Group	Yes	In between	No																													
others	~40%	~30%	~30%																													
new-user	~45%	~30%	~25%																													
user	0%	0%	100%																													
total	~40%	~30%	~30%																													

<p>2.2.3. Dangerous for children</p>	 <table border="1"> <caption>Data for 2.2.3: Dangerous for children</caption> <thead> <tr> <th>Category</th> <th>Yes</th> <th>In between</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>10%</td> <td>25%</td> <td>65%</td> </tr> <tr> <td>new-user</td> <td>15%</td> <td>35%</td> <td>50%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>0%</td> <td>100%</td> </tr> <tr> <td>total</td> <td>10%</td> <td>30%</td> <td>60%</td> </tr> </tbody> </table>	Category	Yes	In between	No	others	10%	25%	65%	new-user	15%	35%	50%	user	0%	0%	100%	total	10%	30%	60%	<p>エコサン・トイレ使用者の全てが、トイレが子供に安全であることを認識している。</p>																				
Category	Yes	In between	No																																							
others	10%	25%	65%																																							
new-user	15%	35%	50%																																							
user	0%	0%	100%																																							
total	10%	30%	60%																																							
<p>2.2.4. Sometimes crowded by people/long line formed in front of latrine</p>	 <table border="1"> <caption>Data for 2.2.4: Sometimes crowded by people/long line formed in front of latrine</caption> <thead> <tr> <th>Category</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>10%</td> <td>90%</td> </tr> <tr> <td>new-user</td> <td>10%</td> <td>90%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>100%</td> </tr> <tr> <td>total</td> <td>10%</td> <td>90%</td> </tr> </tbody> </table>	Category	Yes	No	others	10%	90%	new-user	10%	90%	user	0%	100%	total	10%	90%																										
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others	10%	90%																																								
new-user	10%	90%																																								
user	0%	100%																																								
total	10%	90%																																								
<p>2.3. Do you want to keep using your current toilet</p>	 <table border="1"> <caption>Data for 2.3: Do you want to keep using your current toilet</caption> <thead> <tr> <th>Category</th> <th>Yes I do</th> <th>I wouldn't mind too much</th> <th>No I want to improve it</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>35%</td> <td>5%</td> <td>60%</td> </tr> <tr> <td>new-user</td> <td>15%</td> <td>5%</td> <td>80%</td> </tr> <tr> <td>user</td> <td>80%</td> <td>5%</td> <td>15%</td> </tr> <tr> <td>total</td> <td>30%</td> <td>5%</td> <td>65%</td> </tr> </tbody> </table>	Category	Yes I do	I wouldn't mind too much	No I want to improve it	others	35%	5%	60%	new-user	15%	5%	80%	user	80%	5%	15%	total	30%	5%	65%	<p>エコサン・トイレ使用者の多くは、今のトイレの使用を希望している、一方、ことにエコサン・トイレ希望者は現在のトイレの改善を要望している。</p>																				
Category	Yes I do	I wouldn't mind too much	No I want to improve it																																							
others	35%	5%	60%																																							
new-user	15%	5%	80%																																							
user	80%	5%	15%																																							
total	30%	5%	65%																																							
<p>2.4. What are the main reasons you want to improve</p>	 <table border="1"> <caption>Data for 2.4: What are the main reasons you want to improve</caption> <thead> <tr> <th>Category</th> <th>The pit is almost full</th> <th>The pit becomes full shortly</th> <th>Dirty and badsmelling</th> <th>Almost broken</th> <th>I want to use clean toilet everytime</th> <th>Use excreta in agriculture</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>5%</td> <td>5%</td> <td>10%</td> <td>5%</td> <td>35%</td> <td>5%</td> <td>35%</td> </tr> <tr> <td>new-user</td> <td>5%</td> <td>5%</td> <td>10%</td> <td>5%</td> <td>35%</td> <td>5%</td> <td>35%</td> </tr> <tr> <td>user</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>100%</td> <td>0%</td> <td>0%</td> </tr> <tr> <td>total</td> <td>5%</td> <td>5%</td> <td>10%</td> <td>5%</td> <td>35%</td> <td>5%</td> <td>35%</td> </tr> </tbody> </table>	Category	The pit is almost full	The pit becomes full shortly	Dirty and badsmelling	Almost broken	I want to use clean toilet everytime	Use excreta in agriculture	Others	others	5%	5%	10%	5%	35%	5%	35%	new-user	5%	5%	10%	5%	35%	5%	35%	user	0%	0%	0%	0%	100%	0%	0%	total	5%	5%	10%	5%	35%	5%	35%	<p>トイレ改善要望はきれいなトイレを使いたいということである。</p>
Category	The pit is almost full	The pit becomes full shortly	Dirty and badsmelling	Almost broken	I want to use clean toilet everytime	Use excreta in agriculture	Others																																			
others	5%	5%	10%	5%	35%	5%	35%																																			
new-user	5%	5%	10%	5%	35%	5%	35%																																			
user	0%	0%	0%	0%	100%	0%	0%																																			
total	5%	5%	10%	5%	35%	5%	35%																																			

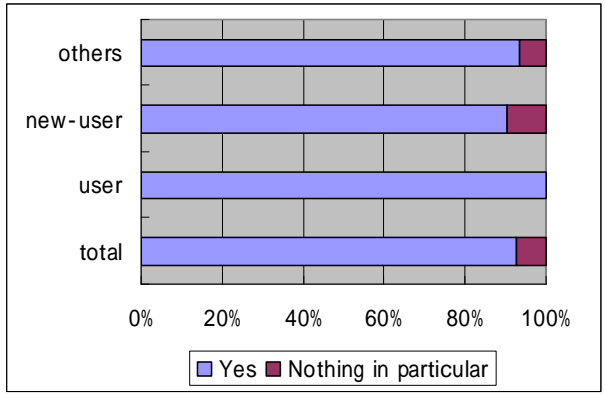
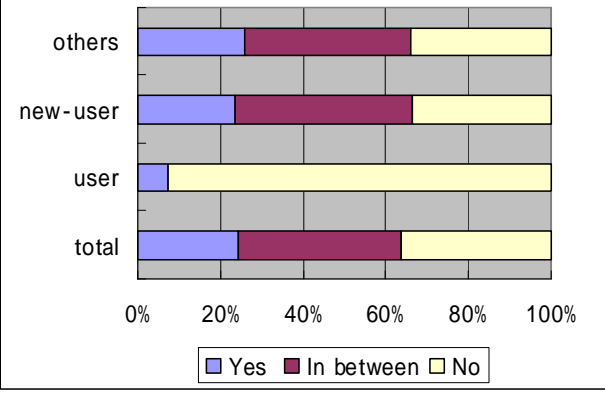
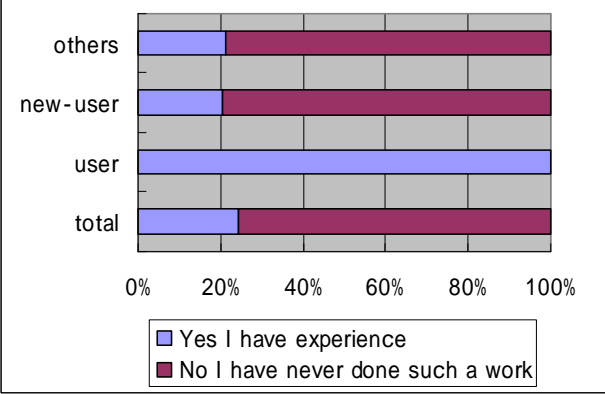
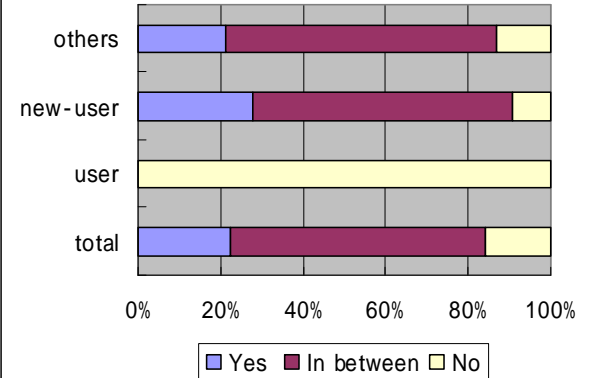
生活環境における健康/衛生観念（罹病頻度/汚染経路の認識等）

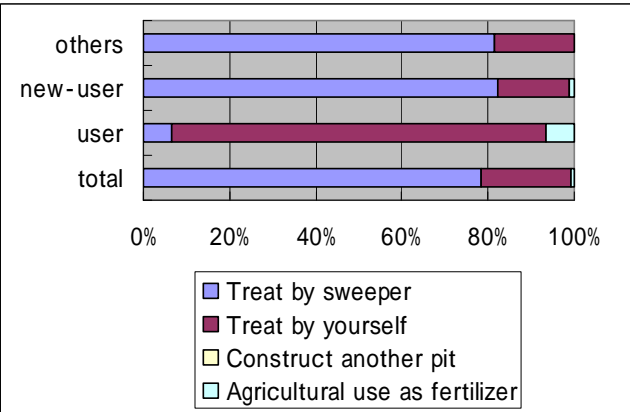
- ・エコサン・トイレ使用者において、罹病頻度が少ないことを示している。
- ・ほとんどの住民は、病気が非衛生的な糞尿の取り扱いと関連していることを知っている。特にエコサン・トイレ使用者の全てが良く理解している。
- ・ほとんどの住民は、池の水の汚染が非衛生的な糞尿の取り扱いと関連していることを知っている。特にエコサン・トイレ使用者の全てが良く理解している。
- ・ほとんどの住民は、川の水の汚染が非衛生的な糞尿の取り扱いと関連していることを知っている。
- ・病気の頻度で見ると、エコサン・トイレ使用者とそれ以外の差異は明らかではない。
- ・医療費の支出で見ると、エコサン・トイレ使用者とそれ以外の差異は多少ありそうである。

	3. Current awareness of health and hygiene	Remarks																				
<p>3.1. How often, in the first few yrs, have you or your family suffered from high fever or diarrhea</p>	 <table border="1"> <caption>Data for 3.1: Frequency of high fever or diarrhea</caption> <thead> <tr> <th>Category</th> <th>Often (%)</th> <th>Sometimes (%)</th> <th>never (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~15</td> <td>~80</td> <td>~5</td> </tr> <tr> <td>new-user</td> <td>~15</td> <td>~80</td> <td>~5</td> </tr> <tr> <td>user</td> <td>~15</td> <td>~65</td> <td>~20</td> </tr> <tr> <td>total</td> <td>~15</td> <td>~75</td> <td>~10</td> </tr> </tbody> </table>	Category	Often (%)	Sometimes (%)	never (%)	others	~15	~80	~5	new-user	~15	~80	~5	user	~15	~65	~20	total	~15	~75	~10	<p>エコサン・トイレ使用者において、罹病頻度が少ないことを示している。</p>
Category	Often (%)	Sometimes (%)	never (%)																			
others	~15	~80	~5																			
new-user	~15	~80	~5																			
user	~15	~65	~20																			
total	~15	~75	~10																			
<p>3.2. Do you know that disease might be related to an unsanitary human excreta management?</p>	 <table border="1"> <caption>Data for 3.2: Awareness of disease related to unsanitary human excreta management</caption> <thead> <tr> <th>Category</th> <th>Yes, I know very well (%)</th> <th>Yes but I know only a little about it (%)</th> <th>I don't know (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>new-user</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>user</td> <td>~100</td> <td>0</td> <td>0</td> </tr> <tr> <td>total</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> </tbody> </table>	Category	Yes, I know very well (%)	Yes but I know only a little about it (%)	I don't know (%)	others	~60	~35	~5	new-user	~60	~35	~5	user	~100	0	0	total	~60	~35	~5	<p>ほとんどの住民は、病気が非衛生的な糞尿の取り扱いと関連していることを知っている。特にエコサン・トイレ使用者の全てが良く理解している。</p>
Category	Yes, I know very well (%)	Yes but I know only a little about it (%)	I don't know (%)																			
others	~60	~35	~5																			
new-user	~60	~35	~5																			
user	~100	0	0																			
total	~60	~35	~5																			
<p>3.3. Do you know that pathogenic pollution of pond is related to an unsanitary human excreta management?</p>	 <table border="1"> <caption>Data for 3.3: Awareness of pathogenic pollution of pond related to unsanitary human excreta management</caption> <thead> <tr> <th>Category</th> <th>Yes, I know very well (%)</th> <th>Yes but I know only a little about it (%)</th> <th>I don't know (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>new-user</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> <tr> <td>user</td> <td>~100</td> <td>0</td> <td>0</td> </tr> <tr> <td>total</td> <td>~60</td> <td>~35</td> <td>~5</td> </tr> </tbody> </table>	Category	Yes, I know very well (%)	Yes but I know only a little about it (%)	I don't know (%)	others	~60	~35	~5	new-user	~60	~35	~5	user	~100	0	0	total	~60	~35	~5	<p>ほとんどの住民は、池の水の汚染が非衛生的な糞尿の取り扱いと関連していることを知っている。特にエコサン・トイレ使用者の全てが良く理解している。</p>
Category	Yes, I know very well (%)	Yes but I know only a little about it (%)	I don't know (%)																			
others	~60	~35	~5																			
new-user	~60	~35	~5																			
user	~100	0	0																			
total	~60	~35	~5																			

<p>3.4. Do you know that pathogenic pollution of river is related to an unsanitary human excreta management?</p>		<p>ほとんどの住民は、川の水の汚染が非衛生的な糞尿の取り扱いと関連していることを知っている。</p>
<p>3.6. Have you and your family suffered from fever or diarrhea in yr 2006-07</p>		<p>病気の頻度で見ると、エコサン・トイレ使用者とそれ以外の差異は明らかではない。</p>
<p>Medical expenses</p>		<p>医療費の支出で見ると、エコサン・トイレ使用者とそれ以外の差異は多少ありそうである。</p>

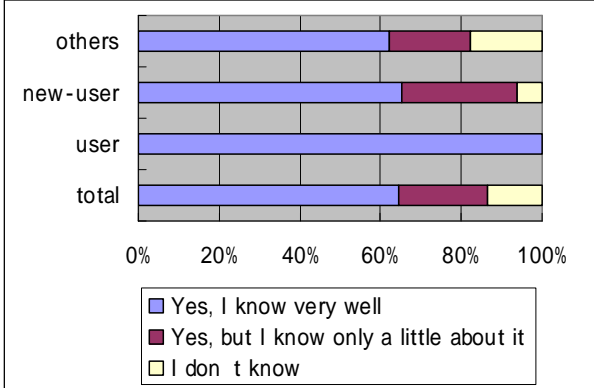
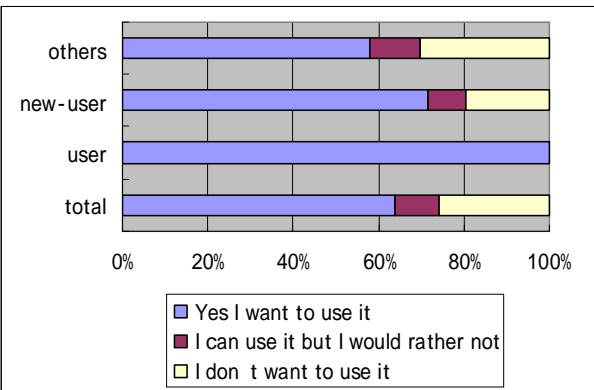
トイレ・排泄物に対する意識・行動（管理/排泄物との接触/運搬等）
 トイレ形式にかかわらず、多くの住民はトイレを清潔に維持している。
 エコサン・トイレ使用者において、トイレの掃除に忌避感はない。
 エコサン・トイレ使用者において、トイレの排泄物に対する忌避感はない。
 エコサン・トイレ使用者において、トイレの排泄物に触れることに対する忌避感はない。
 エコサン・トイレ使用者において、排泄物の最終処分は、掃除人に任せず、自ら処分している。

	4. Performance on toilet and human excreta	Remarks																				
4.1. Are you doing anything to keep your toilet clean?	 <table border="1"> <caption>Data for 4.1: Are you doing anything to keep your toilet clean?</caption> <thead> <tr> <th>Category</th> <th>Yes (%)</th> <th>Nothing in particular (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>90</td> <td>10</td> </tr> <tr> <td>new-user</td> <td>88</td> <td>12</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> </tr> <tr> <td>total</td> <td>90</td> <td>10</td> </tr> </tbody> </table>	Category	Yes (%)	Nothing in particular (%)	others	90	10	new-user	88	12	user	100	0	total	90	10	<p>トイレ形式にかかわらず、多くの住民はトイレを清潔に維持している。</p>					
Category	Yes (%)	Nothing in particular (%)																				
others	90	10																				
new-user	88	12																				
user	100	0																				
total	90	10																				
4.2. Is cleaning the toilet a dreadful job?	 <table border="1"> <caption>Data for 4.2: Is cleaning the toilet a dreadful job?</caption> <thead> <tr> <th>Category</th> <th>Yes (%)</th> <th>In between (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>25</td> <td>40</td> <td>35</td> </tr> <tr> <td>new-user</td> <td>22</td> <td>43</td> <td>35</td> </tr> <tr> <td>user</td> <td>5</td> <td>0</td> <td>95</td> </tr> <tr> <td>total</td> <td>25</td> <td>40</td> <td>35</td> </tr> </tbody> </table>	Category	Yes (%)	In between (%)	No (%)	others	25	40	35	new-user	22	43	35	user	5	0	95	total	25	40	35	<p>エコサン・トイレ使用者において、トイレの掃除に忌避感は少ない。</p>
Category	Yes (%)	In between (%)	No (%)																			
others	25	40	35																			
new-user	22	43	35																			
user	5	0	95																			
total	25	40	35																			
4.4. Have you ever dipped up the pit	 <table border="1"> <caption>Data for 4.4: Have you ever dipped up the pit</caption> <thead> <tr> <th>Category</th> <th>Yes I have experience (%)</th> <th>No I have never done such a work (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>20</td> <td>80</td> </tr> <tr> <td>new-user</td> <td>20</td> <td>80</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> </tr> <tr> <td>total</td> <td>25</td> <td>75</td> </tr> </tbody> </table>	Category	Yes I have experience (%)	No I have never done such a work (%)	others	20	80	new-user	20	80	user	100	0	total	25	75	<p>エコサン・トイレ使用者において、トイレの排泄物に対する忌避感は無。</p>					
Category	Yes I have experience (%)	No I have never done such a work (%)																				
others	20	80																				
new-user	20	80																				
user	100	0																				
total	25	75																				
4.5. Dipping up a pit is a dreadful job?	 <table border="1"> <caption>Data for 4.5: Dipping up a pit is a dreadful job?</caption> <thead> <tr> <th>Category</th> <th>Yes (%)</th> <th>In between (%)</th> <th>No (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>20</td> <td>65</td> <td>15</td> </tr> <tr> <td>new-user</td> <td>28</td> <td>62</td> <td>10</td> </tr> <tr> <td>user</td> <td>0</td> <td>0</td> <td>100</td> </tr> <tr> <td>total</td> <td>22</td> <td>60</td> <td>18</td> </tr> </tbody> </table>	Category	Yes (%)	In between (%)	No (%)	others	20	65	15	new-user	28	62	10	user	0	0	100	total	22	60	18	<p>エコサン・トイレ使用者において、トイレの排泄物に触れることに対する忌避感は無。</p>
Category	Yes (%)	In between (%)	No (%)																			
others	20	65	15																			
new-user	28	62	10																			
user	0	0	100																			
total	22	60	18																			

<p>4.8. If your pit is full, than what do you treat your human excreta?</p>	 <table border="1"> <caption>Data for 4.8: Treatment of human excreta</caption> <thead> <tr> <th>Category</th> <th>Treat by sweeper</th> <th>Treat by yourself</th> <th>Construct another pit</th> <th>Agricultural use as fertilizer</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>80%</td> <td>20%</td> <td>0%</td> <td>0%</td> </tr> <tr> <td>new-user</td> <td>80%</td> <td>20%</td> <td>0%</td> <td>0%</td> </tr> <tr> <td>user</td> <td>10%</td> <td>80%</td> <td>0%</td> <td>10%</td> </tr> <tr> <td>total</td> <td>80%</td> <td>20%</td> <td>0%</td> <td>0%</td> </tr> </tbody> </table>	Category	Treat by sweeper	Treat by yourself	Construct another pit	Agricultural use as fertilizer	others	80%	20%	0%	0%	new-user	80%	20%	0%	0%	user	10%	80%	0%	10%	total	80%	20%	0%	0%	<p>エコサン・トイレ使用者において、排泄物の最終処分は、掃除人に任せず、自ら処分している。</p>
Category	Treat by sweeper	Treat by yourself	Construct another pit	Agricultural use as fertilizer																							
others	80%	20%	0%	0%																							
new-user	80%	20%	0%	0%																							
user	10%	80%	0%	10%																							
total	80%	20%	0%	0%																							

排泄物の利用に対する知識と意思（肥料・ガス利用）

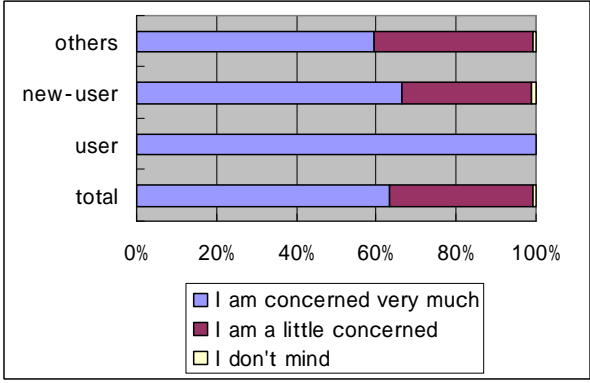
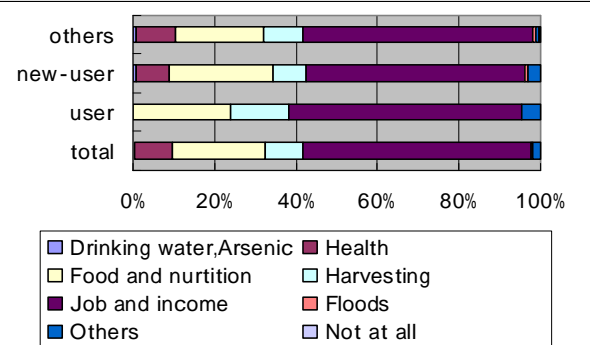
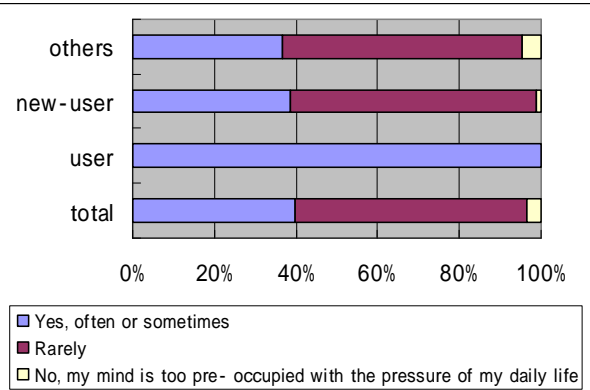
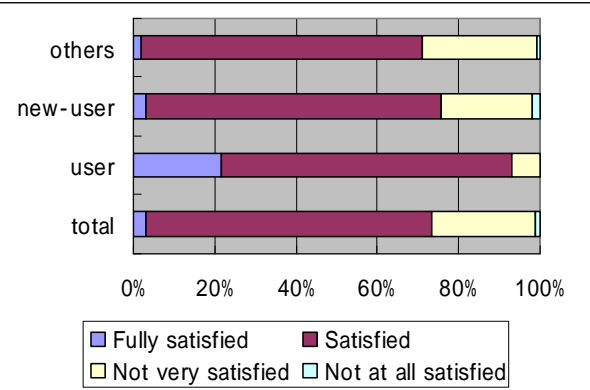
- ・エコサン・トイレ使用者において、し尿の資源利用は、理解され、要望されている。

	5. Regarding utilization of human excreta	Remarks																				
<p>Fertilizer</p>	 <table border="1"> <caption>Data for 5.1: Knowledge of human excreta utilization</caption> <thead> <tr> <th>Category</th> <th>Yes, I know very well</th> <th>Yes, but I know only a little about it</th> <th>I don't know</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>60%</td> <td>20%</td> <td>20%</td> </tr> <tr> <td>new-user</td> <td>60%</td> <td>30%</td> <td>10%</td> </tr> <tr> <td>user</td> <td>100%</td> <td>0%</td> <td>0%</td> </tr> <tr> <td>total</td> <td>60%</td> <td>20%</td> <td>20%</td> </tr> </tbody> </table>	Category	Yes, I know very well	Yes, but I know only a little about it	I don't know	others	60%	20%	20%	new-user	60%	30%	10%	user	100%	0%	0%	total	60%	20%	20%	<p>エコサン・トイレ使用者において、し尿の資源利用は、理解されている。</p>
Category	Yes, I know very well	Yes, but I know only a little about it	I don't know																			
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new-user	60%	30%	10%																			
user	100%	0%	0%																			
total	60%	20%	20%																			
<p>Fertilizer: made from excreta</p>	 <table border="1"> <caption>Data for 5.2: Willingness to use human excreta as fertilizer</caption> <thead> <tr> <th>Category</th> <th>Yes I want to use it</th> <th>I can use it but I would rather not</th> <th>I don't want to use it</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>55%</td> <td>15%</td> <td>30%</td> </tr> <tr> <td>new-user</td> <td>70%</td> <td>10%</td> <td>20%</td> </tr> <tr> <td>user</td> <td>100%</td> <td>0%</td> <td>0%</td> </tr> <tr> <td>total</td> <td>60%</td> <td>15%</td> <td>25%</td> </tr> </tbody> </table>	Category	Yes I want to use it	I can use it but I would rather not	I don't want to use it	others	55%	15%	30%	new-user	70%	10%	20%	user	100%	0%	0%	total	60%	15%	25%	<p>エコサン・トイレ使用者において、し尿の資源利用は、要望されている。</p>
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new-user	70%	10%	20%																			
user	100%	0%	0%																			
total	60%	15%	25%																			

日常生活の関心（医療サービス / 生活の関心事 / 世間に対する関心 / 満足度等）

- ・エコサン・トイレ使用者の全てが、飲み水のヒ素汚染に関心を持っている。
- ・多くの住民の日常的な不安や関心事は、仕事と所得である。またエコサン・トイレ使用者は、健康に対する懸念は少ない。
- ・エコサン・トイレ使用者は、社会的な出来事などに対する関心を持っている。

・エコサン・トイレ使用者には、生活に対する満足感が、他の住民よりも高いことが示されている。

	7. Your daily life	Remarks																																													
<p>7.3. Are you anxious about drinking water(Arsenic)</p>	 <table border="1"> <caption>Data for 7.3: Concern about drinking water (Arsenic)</caption> <thead> <tr> <th>Group</th> <th>I am concerned very much (%)</th> <th>I am a little concerned (%)</th> <th>I don't mind (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>60</td> <td>40</td> <td>0</td> </tr> <tr> <td>new-user</td> <td>65</td> <td>35</td> <td>0</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>total</td> <td>65</td> <td>35</td> <td>0</td> </tr> </tbody> </table>	Group	I am concerned very much (%)	I am a little concerned (%)	I don't mind (%)	others	60	40	0	new-user	65	35	0	user	100	0	0	total	65	35	0	<p>エコサン・トイレ使用者の全てが、飲み水のヒ素汚染に関心を持っている。</p>																									
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user	100	0	0																																												
total	65	35	0																																												
<p>7.4. What worries you most right now(at least two options)</p>	 <table border="1"> <caption>Data for 7.4: Top worries</caption> <thead> <tr> <th>Group</th> <th>Drinking water, Arsenic (%)</th> <th>Food and nutrition (%)</th> <th>Job and income (%)</th> <th>Health (%)</th> <th>Harvesting (%)</th> <th>Floods (%)</th> <th>Others (%)</th> <th>Not at all (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>0</td> <td>10</td> <td>10</td> <td>70</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>new-user</td> <td>0</td> <td>20</td> <td>10</td> <td>60</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>user</td> <td>0</td> <td>20</td> <td>10</td> <td>60</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>total</td> <td>0</td> <td>20</td> <td>10</td> <td>60</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Group	Drinking water, Arsenic (%)	Food and nutrition (%)	Job and income (%)	Health (%)	Harvesting (%)	Floods (%)	Others (%)	Not at all (%)	others	0	10	10	70	0	0	0	0	new-user	0	20	10	60	0	0	0	0	user	0	20	10	60	0	0	0	0	total	0	20	10	60	0	0	0	0	<p>多くの住民の日常的な不安や関心事は、仕事と所得である。またエコサン・トイレ使用者は、健康に対する懸念は少ない。</p>
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new-user	0	20	10	60	0	0	0	0																																							
user	0	20	10	60	0	0	0	0																																							
total	0	20	10	60	0	0	0	0																																							
<p>7.5. Do you ever have spare time to think about issue other than your own affairs?(environment, education, welfare etc)</p>	 <table border="1"> <caption>Data for 7.5: Spare time for other issues</caption> <thead> <tr> <th>Group</th> <th>Yes, often or sometimes (%)</th> <th>Rarely (%)</th> <th>No, my mind is too pre-occupied with the pressure of my daily life (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>new-user</td> <td>40</td> <td>55</td> <td>5</td> </tr> <tr> <td>user</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>total</td> <td>40</td> <td>55</td> <td>5</td> </tr> </tbody> </table>	Group	Yes, often or sometimes (%)	Rarely (%)	No, my mind is too pre-occupied with the pressure of my daily life (%)	others	40	55	5	new-user	40	55	5	user	100	0	0	total	40	55	5	<p>エコサン・トイレ使用者は、社会的な出来事などに対する関心を持っている。</p>																									
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<p>7.6. Are you satisfied with your current life</p>	 <table border="1"> <caption>Data for 7.6: Life satisfaction</caption> <thead> <tr> <th>Group</th> <th>Fully satisfied (%)</th> <th>Satisfied (%)</th> <th>Not very satisfied (%)</th> <th>Not at all satisfied (%)</th> </tr> </thead> <tbody> <tr> <td>others</td> <td>0</td> <td>70</td> <td>30</td> <td>0</td> </tr> <tr> <td>new-user</td> <td>0</td> <td>75</td> <td>25</td> <td>0</td> </tr> <tr> <td>user</td> <td>20</td> <td>70</td> <td>10</td> <td>0</td> </tr> <tr> <td>total</td> <td>0</td> <td>70</td> <td>30</td> <td>0</td> </tr> </tbody> </table>	Group	Fully satisfied (%)	Satisfied (%)	Not very satisfied (%)	Not at all satisfied (%)	others	0	70	30	0	new-user	0	75	25	0	user	20	70	10	0	total	0	70	30	0	<p>エコサン・トイレ使用者には、生活に対する満足感が、他の住民よりも高いことが示されている。</p>																				
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total	0	70	30	0																																											

5-4. 関連要因構造分析

ここでは、トイレに関わる諸要因の関連分析を踏まえ、特に、現在使用しているトイレの改善要望を規定する要因の抽出などについて、分析を行い、エコサン・トイレの位置づけを試みる。

5-4-1 関連要因構造

表-1に、トイレを取り巻く関連要因を一覧する。また、各要因のカテゴリーは、先の集計結果に示したとおりである。

表-2は、これら要因間のクロス集計を施した後、2 - 検定結果であり、この表を図化したものが図-1である。図は、トイレの形式を中心として、多くの要因が関連していることが示されている。トイレ形式は、トイレの状態（汚い、悪臭がする）と極めて密接な関連を有し、トイレの改善意思に強く働きかけている。また、トイレ形式が医療患者や支出に影響を与えているとの仮説は、ここでは成り立っていない。この理由として、設問が、水系伝染病など、トイレの非衛生状態が招来する病気などに特定した内容となっていなかったためと推察できる。したがって、事後アンケート調査においては、この点を加味した設問内容とすべきである。

また、し尿の資源利用や忌避意識との間に、トイレ形式が関連していることは重要な示唆である。

表-1 関連要因一覧

Item
1.3. Educational level
1.5. Do you have farm land?
Toilet type
2.2.1. Dirty:
2.2.2.Bad smell
2.3. Do you want to keep using your current toilet
3.2. Do you know that disease might be related to an unsanitary human excreta management?
3.3. Do you know that pathogenic pollution of pond is related to an unsanitary human excreta management?
No. of patients Medical expences
4.3. What is the frequency of cleaning toilet?
4.5. Dipping up a pit is a dreadful job?
4.6. Do you think it is disgusting and dirty to convey excreta?
Fertilizer usage
fuel gas
Fertilizer: made from excreta
Fuel gas: made from excreta
7.3. Are you anxious about drinking water(Arsenic)
7.5. Do you ever have spare time to think about issue

表-2 要因間の 2 - 検定結果

独立性の検定 [P 値: 右上] [判定マーク: 左下] [判定: P<=0.001->***; P<=0.01->**; P<=0.05->*; else マークなし]

	Educ	Farm	Toile	Dirty	Bad	Keep	Know	Know	No.	dMedi	Freq	Dipp	Disg	Know	know	Dem	Dem	Anxi	Spar
Educational level	---	0.0421	0.0636	0.3181	0.2604	0.1656	0.1860	0.0590	0.0007	0.1474	0.0013	0.1128	0.2871	0.0332	0.9299	0.6360	0.5064	0.0038	0.0817
Farm land owner	[*]	---	0.0004	0.0481	0.0230	0.2721	0.7629	0.9116	0.0305	0.0229	0.2266	0.4654	0.9705	0.3451	0.6046	0.9056	0.2906	0.0021	0.0028
Toilet type	0	[**]	---	0.0000	0.0000	0.0000	0.0025	0.0082	0.5433	0.1755	0.0006	0.5054	0.1482	0.1337	0.6078	0.0000	0.2129	0.0283	0.0000
Dirty:	0	[*]	[**]	---	0.0000	0.0000	0.0003	0.0001	0.8705	0.0432	0.0002	0.6597	0.0182	0.0085	0.0742	0.0066	0.7676	0.0009	0.0000
.Bad smell	0	[*]	[**]	[**]	---	0.0000	0.0040	0.0044	0.4201	0.2166	0.0001	0.3789	0.0282	0.0271	0.0392	0.0035	0.3566	0.0042	0.0008
Keep using your current toilet	0	0	[**]	[**]	[**]	---	0.2873	0.3512	0.4258	0.0097	0.0024	0.8342	0.1584	0.0001	0.0725	0.0000	0.5249	0.9959	0.1569
Knowledge of disease related with sanitation	0	0	[*]	[**]	[*]	0	---	0.0000	0.2283	0.6059	0.0032	0.0095	0.0460	0.0000	0.0000	0.0002	0.0061	0.0000	0.0018
Knowledge of pathogenic pollution related of sanitation	0	0	[*]	[**]	[*]	0	[**]	---	0.2527	0.3834	0.0003	0.0057	0.0134	0.0000	0.0000	0.0003	0.0026	0.0000	0.0149
No. of patients	[**]	[*]	0	0	0	0	0	0	---	0.0000	0.7344	0.0014	0.5245	0.0834	0.0004	0.4905	0.0005	0.0013	0.0012
Medical expences	0	[*]	0	[*]	0	[**]	0	0	[**]	---	0.3517	0.0118	0.0376	0.0002	0.4734	0.0715	0.5265	0.8959	0.5287
Frequency of cleaning toilet	[*]	0	[**]	[**]	[**]	[*]	[**]	[**]	0	0	---	0.0025	0.5101	0.0225	0.0451	0.7257	0.0836	0.1936	0.8359
Dipping up a pit is a dreadful job?	0	0	0	0	0	0	[*]	[*]	[*]	[*]	[*]	---	0.0000	0.0001	0.0000	0.0001	0.0000	0.1810	0.1590
Disgusting and dirty to convey excreta	0	0	0	[*]	[*]	0	[*]	[*]	0	[*]	0	[**]	---	0.0000	0.0002	0.0003	0.0000	0.1756	0.0709
Knowledge of fertilizer usage	[*]	0	0	[*]	[*]	[**]	[**]	[**]	0	[**]	[*]	[**]	[**]	---	0.0000	0.0000	0.0004	0.0000	0.1022
knowledge of gas usage	0	0	0	0	[*]	0	[**]	[**]	[**]	0	[*]	[**]	[**]	[**]	---	0.0000	0.0000	0.0000	0.0000
Demand of fertilizer usage	0	0	[**]	[**]	[**]	[**]	[**]	[**]	0	0	0	[**]	[**]	[**]	[**]	---	0.0000	0.0015	0.0997
Demand of fuel gas usage	0	0	0	0	0	0	[*]	[*]	[**]	0	0	[**]	[**]	[**]	[**]	[**]	---	0.0041	0.0004
Anxious about drinking water(Arsenic)	[*]	[*]	[*]	[**]	[*]	0	[**]	[**]	[*]	0	0	0	0	[**]	[**]	[*]	[*]	---	0.0008
Spare time to think about issue	0	[*]	[**]	[**]	[**]	0	[*]	[*]	[*]	0	0	0	0	[**]	0	[**]	[**]	---	---

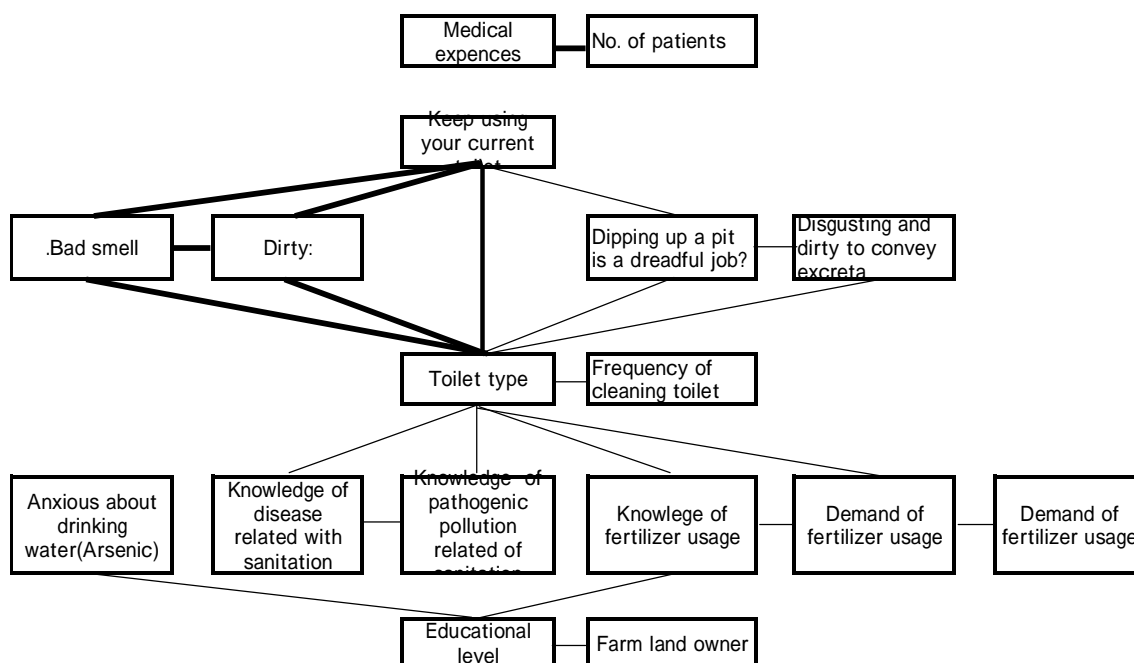


図-1 要因間の関連構造

5-4-2 数量化理論 類による要因間の関連分析

ここでは、数量化理論 類の適用を試み、要因構造、およびトイレ形式に注目した類型化を行う。このため、先の分析から、類似要因で関連するものは省き、表-2 に示す要因を抽出し、これに分析をかけた結果を示す。

表-2 分析要因

1 . トイレ形式	Pit latrine/ Ring slab
	Toilet with septic tank
	Ecosan toilet
2 . トイレの汚さ	dirty
	dirty In between
	non dirty
3 . トイレの悪臭	bad smell
	smell In between
	no smell
4 . トイレの改善意思	keep toilet
	keep in between
	improve toilet
5 . 病気の発生と衛生意識	know disease
	know disease little
6 . 清掃頻度	Everyday
	Once 2days
	over 3 day
7 . 排泄物に対する 忌避意識	disgusting
	a little disgusting
	not disgusting
8 . し尿の資源利用意識	demand excreta
	a little excreta
	no demand excreta

1) 固有値、寄与率

第一軸、第二軸の寄与率、相関係数は表-3 のとおりである。

表-3 固有値、寄与率、軸との相関係数

軸 No.	固有値	寄与率	累積%	相関係数
1	0.4125	22.0%	22.0%	0.6423
2	0.2670	14.2%	36.2%	0.5167
3	0.1792	9.6%	45.8%	0.4233

2) 要因のカテゴリースコア

図-2 にカテゴリースコアの分布を示す。図は、各要因がトイレの形式 (Pit latrine/ Ring slab Toilet with septic tank、Ecosan toilet) の周辺に密接に分布していることを示している。

例えば、Pit latrine/ Ring slab の周辺には、汚い、臭い、改善したい、など否定的な要因が分布している。一方、Ecosan toilet の周辺には、これとは逆に、きれい、臭わない、使い続けるなどの要因が分布しており、トイレ形式と住民の意識が連動していることを示している。

こうした分布から、住民の選考するトイレの分類が可能となる。

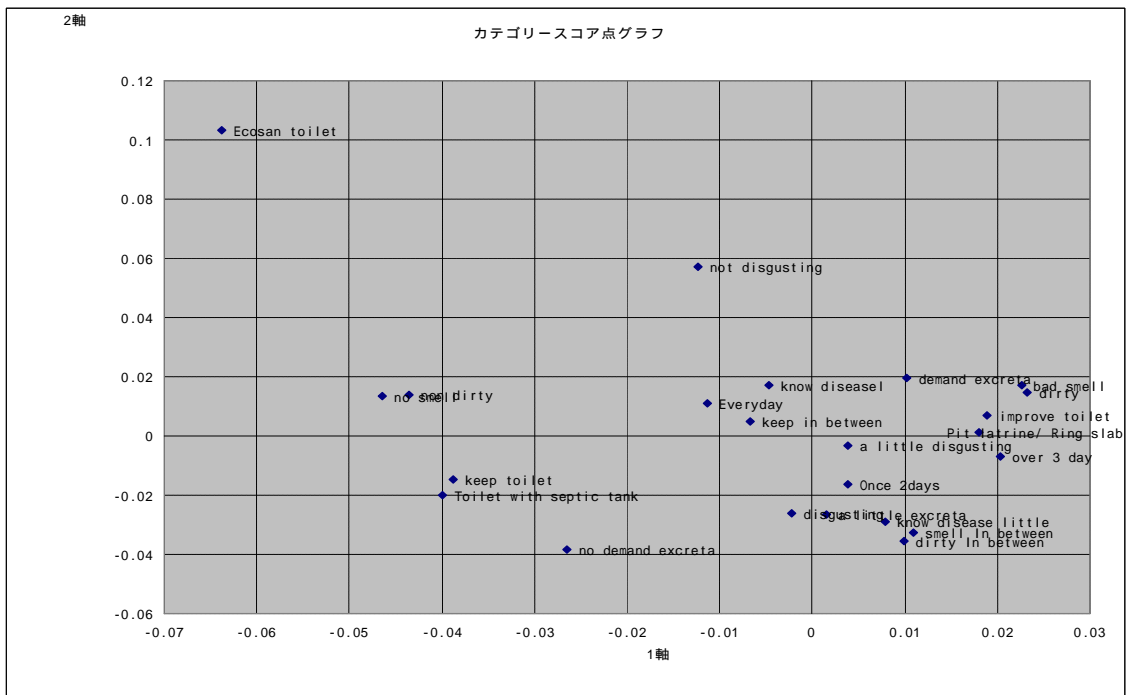


図-2 要因のカテゴリースコア図

3) 個別トイレのカテゴリースコア

図-3 に個別トイレのカテゴリースコア分布を示す。図には示していないが、Pit latrine/ Ring slab Toilet with septic tank、Ecosan toilet の分布を示している。

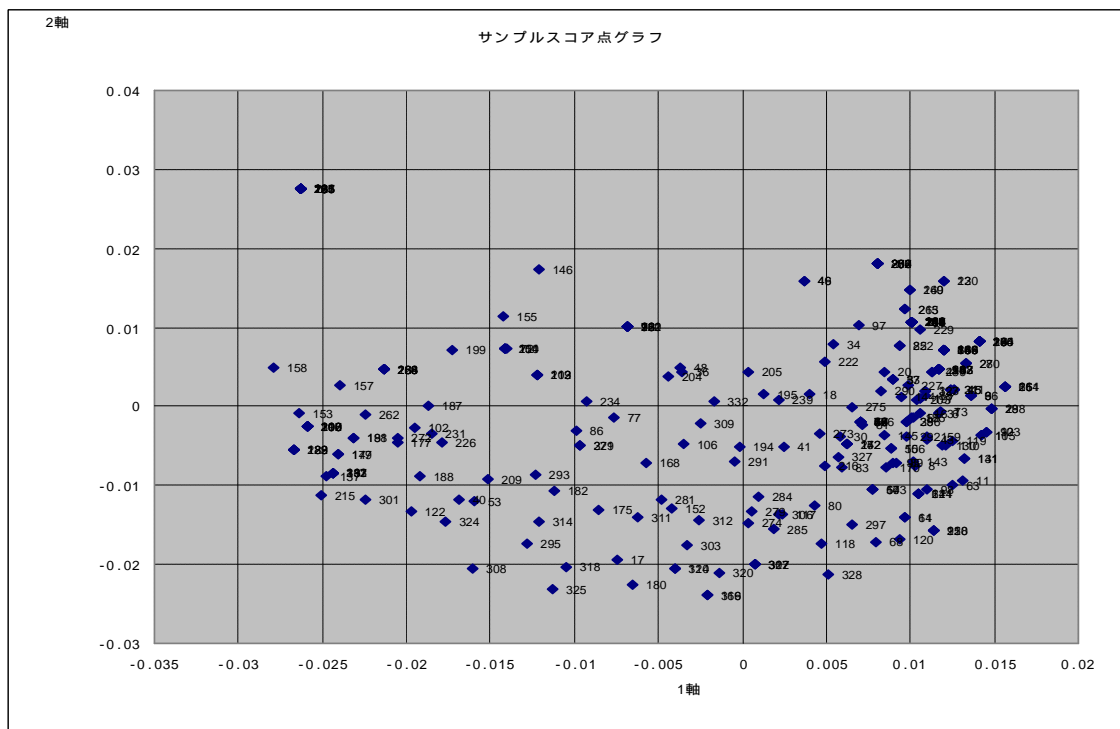


図-3 個別トイレのカテゴリースコア図

5-4-3 トイレ改善意思の判別分析

以上の分析結果から、トイレ形式とトイレに対する意識構造をおおむね把握できた。ここでは、数量化理論 類の適用を試み、トイレ改善意思を有している住民と、使い続けたい住民との判別分析を行い、改善意思の有無を規定する主な要因の抽出を行う。

表-4、図-4 に分析結果のうち、カテゴリースコアを示す。このうち、改善意思を判別する要因として、トイレの形式、トイレの状態(汚さ、臭い)、衛生意識、識字率が有為な要因であることが示され、特にトイレ形式が主な判別要因であることを示している。とりわけエコサン・トイレは、他の代替トイレのうち、圧倒的な支持を得ているものと考えてよいだろう。また、相関比は0.52 と高く、統計的に有為である。図-5 に判別効率を示す。

表-4 カテゴリースコアと有為な要因の抽出

項目名	カテゴリ-名	n	カテゴリ-スコ	横%	対応
1.3. Educat	Literate	238	0.0031	33.2%	
	Illiterate	41	-0.0179	19.5%	
Toilet type	Open/Han	4	-0.3163	0.0%	
	Pit latrine	194	-0.1005	12.4%	
	Septic tan	70	0.2283	74.3%	
	Ecosan	11	0.4345	100.0%	
2.2.1. Dirty	Dirty:	198	-0.0339	16.7%	
	Not dirty	81	0.0829	66.7%	
2.2.2.Bad s	Bad smell	203	-0.0139	17.2%	
	Not smell	76	0.0371	68.4%	
3.2. Do you	yes	173	-0.0284	30.6%	
	No	106	0.0464	32.1%	
Fertilizer u	yes	186	-0.0356	26.9%	×
	In between	57	-0.0299	24.6%	
	no	36	0.2312	63.9%	

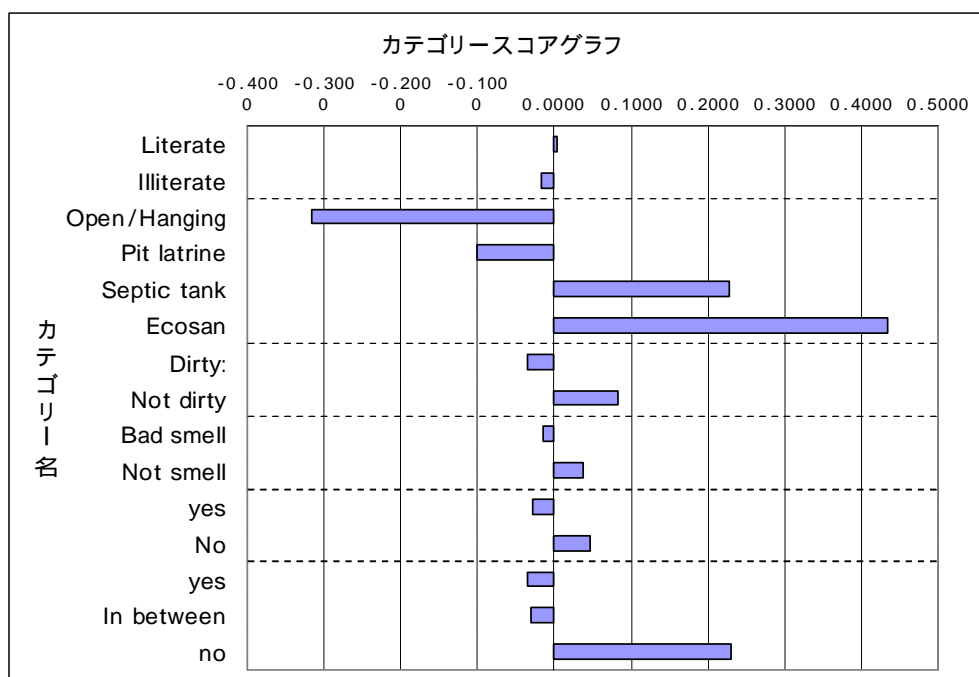


図-4 カテゴリースコア分布図

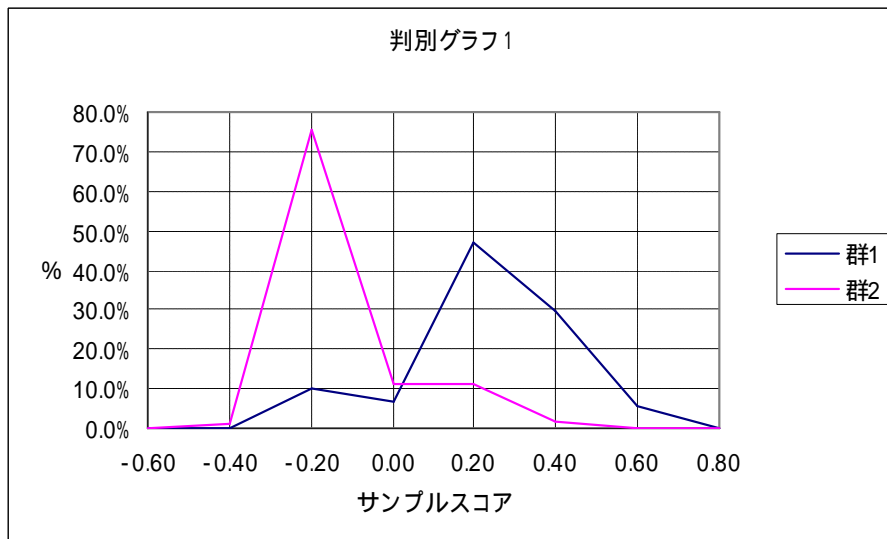


図-5 判別効率

5-5 . おわりに

本節では、エコサン・トイレの導入に際しての事前アンケート調査をもとに、

6ヶ村間の比較分析

既使用者、新たな導入予定者、それ以外の住民間の比較分析

全体に共通の意識構造の分析

に注目し、分析を行った。この結果、まず、既往エコサン・トイレ使用者とそれ以外の住民とに、大きな意識の乖離が見られた。このことは、既往エコサン・トイレ使用者が、使用体験を通じて、トイレによる衛生改善、資源利用、しいてはその使いやすさなどに、一定の評価を下し、しいては、環境問題に対する関心や理解も、深くなっていることを裏付けるものであった。

また、要因間のクロス集計をもとにした共通要因の分析では、特にトイレ形式が、その使用意識などと密接な関連を持ち、ひいては、住民の改善意思と密接にかかわっていることが明らかとなった。

今後、事後調査において、New-User さらにはその他住民にどのような意識の変化となって表出するかの分析が待たれるところである。

Annex: Questionnaire (JICA partnership program)

1 . Personal data

1.1 Sex: (i) Male, (ii) Female

1.2 Age: () years old

1.3 Educational level(=literate or not): (i) Yes, (ii) No

(to be checked by the interviewer by showing a brochure)

1.4 Main occupation of householder (more than two can be chosen)

(1) Farmer

(2) Service holder

(3) Small Business with less than Tk 5000 capital

(4) Business with more than Tk 5000 capital

- (5) Day labor
- (6) Rickshaw puller/ van driver
- (7) Others

1.5 Do you have farm land?: (1) Yes, (2) No

1.6 Family structure (which means the people with whom the interviewee lives)

	Adult (above 15 years)	Child (less than 15 years)
Male		
Female		

1.7 Type of the House (1)own house, (2)rental house, (3)rent free house, (4)conditional house

1.8 Do you (or your some of family members) join Microcredit? (1) Yes, (2) No

2 . Current attitude toward your toilet

2.1 Choose the toilet that you mainly use every day.

- (1) Open defecation
- (2) Hanging latrine
- (3) Pit latrine
- (4) Toilet with septic tank
- (5) Eco-san toilet

2.2 Do the following descriptions fit your toilet?

2.2.1 dirty:(1) Yes, (2) in between, (3) No

2.2.2 bad-smelling (1) Yes, (2) in between, (3) No

2.2.3 dangerous for children (if they use it alone): (1) Yes, (2) in between, (3) No

2.2.4 sometimes crowded by people/ long lines formed in front of toilet: (1) Yes, (2) No

2.2.5 sometimes unavailable during the flood season: (1) Yes, (2) No

2.3 Do you want to keep using your current toilet?

(1) Yes, I do. (2) I wouldn't mind too much. (3) No. I want to improve it.

2.4 (*Ask those* who replied (1)(2)) What are the main reasons you want to improve? (more than two can be chosen)

- (1) The pit is almost full
- (2) The pit becomes full in shortly
- (3) Dirty and bad-smelling
- (4) Almost broken
- (5) I want to use clean toilet every time.

3 . Current awareness of health and hygiene in your living environment

3.1 How often, in the past few years, have you or your family suffered from high fever or diarrhea?

(1) often, (2) sometimes, (3) never

3.2 Do you know that diseases might be related to an unsanitary human excreta management?

(1) Yes, I know very well. (2) Yes, but I know only a little about it. (3) I do not know

3.3 Do you know that pathogenic pollution of pond is related to an unsanitary human excreta management?

(1) Yes, I know very well. (2) Yes, but I know only a little about it. (3) I do not know

3.4 Do you know that pathogenic pollution of river is related to an unsanitary human excreta management?*

(1) Yes, I know very well. (2) Yes, but I know only a little about it. (3) I do not know

3.5 Are you concerned about using polluted water?

(1) I am concerned about pollution. (2) I am a little concerned. (3) I don't mind any pollution.

*If rivers do not exist nearby, delete question 3.4.

3.6 Have you and your family suffered from fever or diarrhea?

In a year 2006-2007, the number of patients (), medical expenses() Tk

4 . Performance on toilet and human excreta

4.1 Are you doing anything to keep your toilet clean? (1) Yes, (2) nothing in particular

4.2 Is cleaning the toilet a dreadful job? (1) Yes, (2) in between, (3) No

4.3 How the frequency of cleaning toilet?

(1) everyday (2) once a 2days (3) once a 3days (4) once a week (5) It rarely does

4.4 Have you ever dipped up the pit? (whichever by yourself or ask a person who engaged in pit cleaning)

(1) Yes, I have experienced, (2) No, I have never done such a work

4.5 Dipping up the pit is a dreadful job? (1) Yes, (2) in between (3) No

4.6 Do you think it is disgusting and dirty to convey excreta?

(1) it is disgusting and dirty, (2) it is a little disgusting and dirty, (3) it is not disgusting and dirty

4.7 Have you ever used any other toilet that was much cleaner than yours?

(1) Yes, (2) I have only heard of such a toilet (or a little bit clearer), (3) No

4.8 If your pit (toilet) is full, then what do you treat your human excreta?

(1) treat by a sweeper (2) treat by yourself (3) construct one another pit (4) agricultural use as fertilizer

4.9 How long have you to use pit until full?

(1) within 1 year (2) 1-2 years (3) over 3 years

4.10 How many years have you use your current toilet?

(1) within 1 year (2) 1-2years (3) 2-5years (4) over 5 years

4.11 How much was your toilet cost? Current Toilet construction cost() Tk

5 . Regarding utilization of human excreta derived resources

5.1 Do you know that excreta can be used as fertilizer or fuel gas?

Fertilizer:(1) Yes, I know very well. (2) Yes, but I know only a little of it. (3) I do not know.

Fuel gas: (1) Yes, I know very well. (2) Yes, but I know only a little of it. (3) I do not know.

5.2 Do you want to use fertilizer or fuel gas made from excreta?

fertilizer made from excreta:

(1) Yes, I want to use it. (2) I can use it but I would rather not. (3) I do not want to use it.

fuel gas made from excreta:

(1) Yes, I want to use it. (2) I can use it but I would rather not. (3) I do not want to use it.

6 . Regarding your intention to improve toilet and willingness to pay

6.1 Would you like to improve your toilet if it has some of following performances and functions?

6.1.1 More sanitary

(1) I do want to improve it. (2) I want to improve it, if I can. (3) I do not want to improve it.

6.1.2 Being able to use human excreta derived resources

(1) I do want to improve it. (2) I want to improve it, if I can. (3) I do not want to improve it.

6.1.3 Being able to use clean toilet every time even during flood

(1) I do want to improve it. (2) I want to improve it, if I can. (3) I do not want to improve it.

6.2 What is the most preferable performance if you improve your toilet?

(1) sanitation, (2) utilization human excreta derived resources, (3) being able to use clean toilet every time

6.3 Would you be willing to bear the cost if you improve your toilet?

(1) Yes, I am willing to bear the cost. (2) No, I don't want to bear the cost.

(Ask those who replied yes) Which would you prefer when you bear the cost?

(1) I want to bear the cost in terms of money

(2) I want to bear the cost in terms of labor

(3) I can bear the cost in terms of both money and labor

7 . Your daily life

7.1 Is the medicine easily available to you?

(1) very easy to get, (2) not very difficult to get, (3) difficult to get

→if the answer is (iii), ask why? (more than two can be chosen)

(1) Because they cannot afford it, (2) Because pharmacy is too far

7.2 Do you see a doctor or go to the hospital when you become seriously ill?

(1) Yes, I go to the doctor's. (2) Yes, but only when I am seriously ill. (3) No, I can't.

→if the answer is (iii), ask why? (more than two can be chosen)

(1)Because they cannot afford it, (2) Because doctor/hospital is too far

7.3 Are you anxious about drinking water(arsenic)?

(1) I am concerned very much. (2) I am a little concerned. (3) I don't mind.

7.4 What worries you most right now? Choose two from the below.

(1)drinking water(arsenic) (2)health (3)food and nutrition (4)harvesting.(5)job and income,
(6) floods, (7) others (what?)

7.5 Do you ever have spare time to think about issues other than your own affairs? For example, social issues, such as the environment, education, and welfare, etc. (1) Yes, often or sometimes, (2) rarely,

(3) No, my mind is too pre-occupied with the pressures of my daily life

7.6 Are you satisfied with your current life?

(1) fully satisfied, (2) satisfied, (3) not very satisfied, (4) not at all satisfied