Priscilla Hollingsworth/glazes used at Augusta State University
last revised November 13, 2008

RAKU GLAZES

**Higby Water Blue**

70 frit 31 1 0  
5 gerstley borate  
5 flint  
5 EPK  
----------------------------------------------

85  
Add copper carbonate 3-6%. A blue-turquoise glaze that reduces to copper penny. For lime green color increase copper to 8%.

**Seth Blue Luster**

2000 gerstley borate  
500 nepheline syenite  
31 tin oxide  
250 copper carbonate  
125 cobalt carbonate  
----------------------------------------

2906

**Rick's Turquoise**

982 gerstley borate  
495 nepheline syenite  
505 spodumene  
515 lithium  
477 zircopax  
65 copper carbonate  
----------------------------------------------

3039  
Add 2% bentonite to this batch. A delicate turquoise color with eggshell texture. Delicate copper reduction effects.

**Crimson Glaze**

80 gerstley borate  
20 nepheline syenite  
5 kaolin  
10 zircopax  
----------------------------------------------

115  
Add 15% crimson stain. Use this glaze for accents. It has no reduction effects - it's pink no matter
what. Firing it too high can cause the pink to burn to white in spots.

**Mottled Brown**
80 gerstley borate
20 nepheline syenite
  5 kaolin

```
105
Add copper carbonate 5%.
Add red iron oxide 10%
Also known as "Green/Red Glaze." Depending on reduction treatment, this glaze shows a variety of color effects.
```

**Sunday Copper Matte**
90 copper carbonate
10 frit 3110

```
100
Add 3% bentonite.
A dry surface with the full range of iridescent colors.
```

**Robert Bazemore's Sunday Copper Matte Variations:**

1) Bubba's Secret Sauce: One layer of Sunday Copper Matte over one layer of Mottled Brown. Result: reds & oranges with cracking of glaze.

2) Bubba's Secret Sauce, Cajun Style: One layer of Mottled Brown over one layer of Sunday Copper Matte. Result: Strong yellows with reds and oranges.

3) The Flying Toe-Hold: First, a layer of Rick's Turquoise, then a layer of Mottled Brown, then last a layer of Sunday Copper Matte. Thin layers are best! Result: reds, oranges, greens, some silver.

For all of Robert's variations, use heavy postfiring reduction.

**Clear Glaze**
80 gerstley borate
20 G-200 feldspar

```
100
```

**Turquoise Crackle Raku**
80 gerstley borate
20 titanium dioxide

```
100
```
Add 4% copper carbonate

**CRM-3 (Crusty & Iridescent)**

**PARTS BY WEIGHT**
- 8 gerstley borate
- 2 bone ash
- 1/4 cobalt carbonate
- 1/2 copper carbonate

10 ¾ parts

Iridescent, matt, luster effects. A crusty blue glaze with iridescent patina. Good layered over shiny glazes or used alone.

**Sam's Bubble Gum Glaze**

- 80 gerstley borate
- 15 G-200 feldspar
- 5 whiting
- 5 zircopax

105

Add 12% mulberry stain.

This glaze is best if fired in its lower ranges, just after the bubbles clear in the raku kiln - then it's a satin matt shading from soft gray-blue to flashes of purple-pink. If fired higher, it turns into a mottled burgundy gloss - fine, but not as exciting.

**Alligator Crawl**

- 2500 gerstley borate
- 1250 bone ash
- 625 nepheline syenite
- 625 copper carbonate
- 535 tin oxide

5535

A very dry glaze.

**Turquoise Alkaline Matt**

- 55 nepheline syenite
- 26 barium carbonate
- 2 lithium carbonate
- 7 flint
- 6 china clay
- 4 copper carbonate

100

A very dry matt surface, turquoise when completely oxidized. Reduces very easily (spots of yellow, burgundy, and black).
**Copper Zuppo**
45.0 gerstley borate  
11.0 nepheline syenite  
16.5 EPK  
27.5 borax

100
Add copper carbonate 10%. Remove from the kiln quickly and reduce thoroughly - yields amazing satin matt luster effects.

**Glass Bead Raku**
50 gerstley borate  
40 borax  
10 flint  
50 magnesium carbonate  
10 zircopax

160

**White Crackle Raku**
80 gerstley borate  
20 G-200  
5 EPK  
10 Zircopax

115

**Metallic Red Raku**
50 borax  
50 gerstley borate  
5 copper carbonate  
10 red iron oxide

115

**Tomato Red Raku**
50 borax  
50 gerstley borate  
20 copper carbonate  
5 iron oxide

125

**Kansas City Red Raku**
50 borax
<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>gerstley borate</td>
<td>50</td>
<td>copper carbonate</td>
<td>10</td>
</tr>
<tr>
<td>rutile</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lizard Skin Raku</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>borax</td>
<td>10</td>
<td>lithium</td>
<td>15</td>
</tr>
<tr>
<td>gerstley borate</td>
<td>70</td>
<td>nepheline syenite</td>
<td>20</td>
</tr>
<tr>
<td>magnesium carbonate</td>
<td>40</td>
<td>copper carbonate</td>
<td>5</td>
</tr>
<tr>
<td>chrome</td>
<td>.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Darwin Raku</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>gerstley borate</td>
<td>2500</td>
<td>3134</td>
<td></td>
</tr>
<tr>
<td>tin oxide</td>
<td>255</td>
<td>copper carbonate</td>
<td>322.5</td>
</tr>
<tr>
<td>Flaming Moondrops Raku</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lithium</td>
<td>20</td>
<td>magnesium carbonate</td>
<td>40</td>
</tr>
<tr>
<td>gerstley borate</td>
<td>70</td>
<td>copper carbonate</td>
<td>6</td>
</tr>
<tr>
<td>chrome</td>
<td>.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hawaiian Copper Blue Raku</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>bone ash</td>
<td>20</td>
<td>gerstley borate</td>
<td>80</td>
</tr>
<tr>
<td>Add</td>
<td>1.3%</td>
<td>tin oxide</td>
<td>5.0%</td>
</tr>
<tr>
<td>cobalt oxide</td>
<td>.30</td>
<td>copper carbonate</td>
<td>2.5%</td>
</tr>
</tbody>
</table>

This glaze is on the matte side.
**Craters of the Moon Raku**
50  lithium carbonate
20  kaolin
20  magnesium carbonate
60  flint
10  bentonite
30  borax
12  copper carbonate

202
Lots of iridescence, sort of shiny.

**Earthmother Raku**
30  lithium carbonate
30  gerstley borate
20  silica
10  ball clay
10  talc

100
Add: 1% cobalt carbonate
     3% copper carbonate
     1% manganese dioxide
Shiny glaze, brown base with red flashes.

**Red Hot Raku**
50  nepheline syenite
30  frit 3819
   4  tin oxide
   1  black copper oxide

84
Near-matte surface, dull red in color.

**Ocean Oil Texture Raku**
30  lithium carbonate
40  gerstley borate
10  kaolin
20  borax
   6  copper carbonate
40  whiting

146

**Weiser Rust - raku**
5.5  gerstley borate
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nepheline syenite</td>
<td>1.25</td>
</tr>
<tr>
<td>Copper carbonate</td>
<td>1.875</td>
</tr>
<tr>
<td>Nickel oxide</td>
<td>0.5</td>
</tr>
<tr>
<td>Tin oxide</td>
<td>0.5</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Total</td>
<td>9.625</td>
</tr>
</tbody>
</table>

These are parts by VOLUME. The author of the recipe suggests using a cup as the unit of measure. Note that 1.875 is 1 cup plus 7/8 of another cup.

**Black Raku**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borax</td>
<td>3.22</td>
</tr>
<tr>
<td>Gerstley borate</td>
<td>43.01</td>
</tr>
<tr>
<td>Soda ash</td>
<td>21.51</td>
</tr>
<tr>
<td>Nepheline syenite</td>
<td>10.75</td>
</tr>
<tr>
<td>Barnard clay</td>
<td>21.51</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Add:
- 4.30% cobalt carbonate
- 2.15% copper carbonate

**'Shroom Brown raku**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frit 3110</td>
<td>85</td>
</tr>
<tr>
<td>Ball clay</td>
<td>7.5</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>7.5</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Add:
- 1.5% copper oxide
- 6% iron oxide

**Mary Jane Blue raku**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frit 3110</td>
<td>85</td>
</tr>
<tr>
<td>Ball clay</td>
<td>7.5</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>7.5</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Add:
- 5% cobalt oxide
- 5% tin oxide

**Egyptian Blue raku**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soda ash</td>
<td>30.5</td>
</tr>
<tr>
<td>Lithium carbonate</td>
<td>8.5</td>
</tr>
<tr>
<td>EPK</td>
<td>22.5</td>
</tr>
<tr>
<td>Flint</td>
<td>38.5</td>
</tr>
<tr>
<td>Black copper oxide</td>
<td>2.5</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
</tr>
</tbody>
</table>
1  bentonite
-------
103.5

**Venetian Blue Raku** (BF)
80  gerstley borate
20  F4 feldspar
-------
100
Add 2.5% cobalt carbonate
2.0% nickel carbonate

**Honey Yellow raku**
55  gerstley borate
30  EPK
  5  flint
  5  zircopax
  1  manganese dioxide
  2  vanadium pentoxide
----------------------------------------------
98