

TRIANGLE POTTERS' GUILD

GLAZE RECIPES

November, 1988

Table of Contents

BLACK GLAZES	3
BLUE GLAZES	6
BROWN GLAZES	10
CELADON GLAZES	12
CLEAR/TRANSPARENT GLAZES	15
COPPER GLAZES	19
CREAM/OFFWHITE GLAZES	24
GREEN GLAZES	28
MISCELLANEOUS COLORS	32
ORANGE GLAZES	38
RED GLAZES	41
RED GLAZES (COPPER)	45
WHITE GLAZES	50
YELLOW GLAZES	55
SLIPS	58
CLAY BODIES	62
NOTES AND TIPS	65
ALPHABETICAL LIST OF GLAZES	68
INDEX 1 GLAZES BY COLOR	71
INDEX 2 GLAZES BY TEMPERATURE/FIRING METHOD	74

BLACK GLAZESCushing Black

Nephelyne Syenite	10.0
Albany Slip	65.0
Barium	10.0
Talc	16.0
Chrome	4.0
Manganese Oxide	2.0
Cobalt Oxide	2.0

Cone 910 Reduction

Mary Roehm

Ed Duffield

Smooth waxy black.

K10

Cone 10 Reduction

White Oak

Pottery

Custer Feldspar	5850 grams
Whiting	2290
Kaolin	700
Silica	3950
Red Iron Oxide	1279

K10 fires to a gloss black with brown breaks where it is thin.
 When used on the inside of a closed or lidded container
 pinholing occurs, otherwise it is a very reliable glaze.

Rhodes Black

Cone 10 Reduction

John Givvines

Albany Slip	750
Nephelyne Syenite	150
Barium Carbonate	100
Cobalt Carbonate	5
Manganese Dioxide	1

Satin Doll (Matte Black)

Cone 910 Reduction

Conrad Weiser

Albany Slip	65
Nephelyne Syenite	15
Barium Carbonate	10
Talc	10
	100

Add:

Iron Oxide	2	5
Chrome Oxide	1	
Manganese Oxide	2	
Cobalt Carbonate	2	

BLUE GLAZES**Beautiful Blue**

Cone 6 Oxidation
Dawn Hoyle

Custer Feldspar	3150
Gerstley Borate	1800
Flint	1425
Zinc Oxide	675
Kaolin	375
Cobalt Carbonate	38
Red Iron Oxide	148.5

An old favorite I used years ago very glossy, very fluid.

Birds Beak Blue

Cone 10 Reduction
NCSU Craft

Center

3.4 kg 6.8 kg

EPK	400	800
Flint	1000	2000
Whiting	600	1200
Custer Feldspar	800	1600
Talc	400	800
Total	3200	6400
Rutile	160	320
Cobalt Carbonate	40	80

Blue Break Up

Cone 56 Oxidation
Sandy Brunner

Cornwall Stone	60%
Gerstley Borate	40%
Cobalt	0.5%
Rutile	2.5%

Applied thick gives a nice mottled blue. Applied over dark brown glazes, it runs beautiful.

Blue Olive

Cone 10 Reduction
or Oxidation
Sertoma Arts

Ctr.

Custer Feldspar	45
Cornwall Stone	22
Kaolin	13
Whiting	20
Cobalt Carbonate	0.5
Red Iron Oxide	2
Rutile	2

Dawn Hoyle

Turner Blue

Cone 10 Reduction
NCSU Craft

Center

	1.2 kg	2.5 kg	5.0 kg
--	--------	--------	--------

EPK	230	460	920
Nephelyne Syenite	306	612	1224
Cornwall Stone	242	484	968
Whiting	110	220	440
Dolomite	132	264	528
Talc	76	152	304
Flint	152	304	608
Total	1248	2496	4992
Cobalt Carbonate	18	36	72
Chrome Oxide	6	12	24

Vera Blue

Cone 10 Reduction
NCSU Craft

Center

	2 kg	4.1 kg	6.2 kg
--	------	--------	--------

Kingman Feldspar	120	2400	3600
Dolomite	100	200	300
Gerstley Borate	400	800	1200
EPK (Calcined)	150	300	450
EPK (Raw)	150	300	450
Total	2000	4000	6000

Rutile

808

160

240

BROWN GLAZESAlbany Dark Brown

Center

Barnard Clay	700
Albany Slip Clay	1395
Cornwall Stone	80
Ball Clay	30
Flint	82.5
Whiting	27.5
Zinc Oxide	15
Gerstley Borate	170

Cone 10 Reduction
NCSU Craft

Dawn Hoyle

10
CELADON GLAZES

Alfred L. Celadon

Potash Feldspar	19
Soda Feldspar	15
Whiting	17
Barium	3
Ball Clay	15
Flint	31
Red Iron Oxide	3.0%
Bentonite	2.0%
Epsom Salt	0.5%

Nice waxy green celadon.

Celadon

Center	1 kg	3.1 kg	5.2 kg
Custer Feldspar	278	834	1390
EPK	203	609	1015
Flint	346	1038	1730
Whiting	200	600	1000
Total	1027	3081	5135
Red Iron Oxide	5	15	25

Light green celadon.

Choy Blue Celadon

Potash Feldspar	61.2
Whiting	7.5
Kaolin	4.9
Flint	24.8
Barium	20.0
Red Iron Oxide	2.5

Greyblue waxy.

Cone 10 Reduction

Mary Roehm
 Ed Duffield

Cone 10 Reduction
 NCSU Craft

Foundry Celadon

Flint	84
Potash Feldspar	132
EPK	30
Whiting	59
Red Iron Oxide	8
Bentonite	9

Cone 10 Reduction

Mary Roehm
Ed DuffieldT14 Celadon

Potash Feldspar	37.5
Flint	26.0
Kaolin	15.6
Talc	6.5
Whiting	14.3
Tin (or Zircopax)	5.0
Red Iron Oxide	2.0

Cone 10 Reduction

Mary Roehm
Ed Duffield

CLEAR/TRANSPARENT GLAZESClear Glaze

Colemanite (Gerstley Borate)	8075%
Nephelyne Syenite	2025%

Raku
Chris Stanley

Makes a nice clear glaze that will hold onto some of the smoke.
I use this as a base to add 510% oxides to paint colors on raku.

Georgia Clear

Potash Feldspar	30
Ball Clay	20
Whiting	20
Flint	30

Cone 10 Reduction
Mary Roehm

Ed Duffield

For blue add:

Copper Carbonate	0.00125	(1/8 of 1%)
Chrome	0.00125	(1/8 of 1%)

Leach's Transparent Base

Pottery	
Custer Feldspar	4000
Whiting	2000
Kaolin	1000
Silica	3000

Cone 910 Reduction
White Oak

Light celadon:

Red Iron Oxide	2.0%
----------------	------

Olive Celadon:

Black Iron Oxide	2.0%
------------------	------

Transparent Gloss Blue:

Black Iron Oxide	2.0%
Cobalt Oxide	0.5%

Opaque Gloss White:

Zircopax	10.0%	or	Tin Oxide	10.0%
(We substitute half of the Tin Oxide with Zirconium Oxide to help reduce costs.)				

Leach's is an extremely reliable and versatile glaze. It works best when applied thick and doesn't run. It works well with brushed or sprayed oxide decorations.

Raku Base Glaze

Raku
Conrad Weiser

Frit # 25	42.5
Frit # 3134	27.4
Lithium Carbonate	9.8
EPK	6.3
Silica	14.0
CMC or gum	1 tsp/Kg.
Bentonite	2%

Is clear, gives crackles, good over or under glaze colors.

Raku Transparent

Raku
Conrad Weiser

Gerstley Borate	76
Nephelyne Syenite	24
CMC tsp.	1
Bentonite	2

Dry mix, then add CMC and water. Mill for 15 minutes after slaking.

#13 Transparent

Cone 10 Reduction
NCSU Craft

Center

	1 kg	3 kg	6 kg
Custer Feldspar	285	855	1710
Ball Clay	195	385	1170
Whiting	195	385	1170
Flint	325	975	1950
Total	1000	3000	6000

14
COPPER GLAZES

Aurora Copper Luster

Borax	60
EPK	40
Add:	
Red Copper Oxide	8.5%
Manganese Dioxide	9.0%

Raku
Edge Barnes

Mix borax and EPK into a paste. Add colorants. Fire in heavy reduction.

Copper Colemanite

Calcined Feldspar	46.8%
Flint	20.0%
China Clay	2.5%
Whiting	8.3%
Colemanite (Gerstley Borate)	13.7%
Zinc Oxide	4.0%
Dolomite	6.0%

Cone 45 Oxidation
Sandy Brunner

101.3%

Black Copper Oxide	5.0%
--------------------	------

Cone 4 Matte turquoise
Cone 5 Semigloss turquoise
Cone 6 Electric blue glossy

By varying the amount of Black Copper Oxide the color can vary from turquoise green to black that breaks to purple and pink.

Copper Luster

Frit #54	75
Kaolin	15
Zircopax	10
Add:	
Copper Carbonate	3%
Borax	1%

Raku
Tony Marsh

<u>Copper Matte</u>	15	Raku
Copper carbonate	90%	Jennie Bireline
Ferro 3110	10%	

<u>Lithium Glaze</u>		Raku
		Tony Marsh
Lithium Carbonate	27.7	
Kaolin	14.0	
Silica	55.4	
Bentonite	2.9	
Add:		
Copper Carbonate	3.8%	

<u>Lizard Skin</u>	Raku
Colemanite	Chris Stanley
Borax	Tony Marsh
Add:	
Rutile	10%
Copper Carbonate	10%

Very runny.

	Glossy	SemiMottled	Matte
Lithium Carbonate	14.0	9.8	7.8
Kingman Feldspar	27.2	27.2	27.2
Whiting	14.8	14.8	14.8
EPK	12.8	12.8	12.8
Flint	31.2	35.4	37.4
	100.0	100.0	100.0
Add:			
Copper Carbonate	2%	2%	2%

Be careful and test well on your clay body. It shivers sometimes on some clay bodies.

Val's Copper Luster Raku

	16	Edge Barnes
Colemanite	80	Val McGaughey
Soda Feldspar	20	
Add:		
Copper Oxide	50%	

Heavy reduction produces metallic copper. Turns jade green in oxidation.

Weiser Rust

Raku
Edge Barnes

* Volume Measure *

Colemanite	5.5
Nephelyne Syenite	1.25
Copper Carbonate	1.875
Black Nickel Oxide	0.5
Tin Oxide	0.5

* Volume Measure *

Willie Hillix

Cone 10 Reduction
Mary Roehm
Ed Duffield

Nephelyne Syenite	2500
Flint	1400
Whiting	1200
Kaolin (Tile 6)	700
Bentonite	150
Copper Carbonate	50
Black Copper Oxide	250

Green red blue black.

CREAM/OFFWHITE GLAZESButtercream

Feldspar G200	164
Gerstley Borate	48
Dolomite	28
Talc	30
Kaolin	20
Flint	80
Manganese Dioxide	14

Cone 10 Reduction
John Givvines

Buttermilk

Gerstley Borate	210
Dolomite	136
Whiting	180
Feldspar	586
Kaolin	136
Talc	270
Flint	482

Cone 10 Reduction
John Givvines

Crane (Matte)

Oxidation

Ctr.	
Dolomite	18
Talc	6
F4 Feldspar	42
Ball Clay	8
Flint	26
Ilmanite	5

Cone 910 Reduction
or

Sertoma Arts

Also called 'Speckled Crane'. Offwhite color with tiny dark specks like the bird's egg.

Hymen's Basic Matte

F4 Feldspar	90
Dolomite	110
Kaolin	90

Cone 10 Reduction
or Oxidation
Dawn Hoyle

Whiting	3018
Flint	25

Can be used on either porcelain (a creamy color) or stoneware (yellow with brown spots). I use this in reduction firing, but others have used it in oxidation.

Moonglow

Cone 10 Reduction
NCSU Craft

Center

	2 kg	3.7 kg	5.6 kg
Kingman Feldspar	760	1520	2280
EPK	380	760	1140
Dolomite	340	680	1020
Whiting	70	140	210
Flint	160	320	480
Total	1710	3420	5130
Superpax	130	260	390
Bentonite	10	20	30

Oatmeal

Cone 910 Reduction
or

Oxidation

Sertoma Arts

Ctr.

Custer Feldspar	35	Dawn Hoyle
Dolomite	20	
Kaolin	22.5	
Whiting	3	
Talc	19	

SLG 25 Tan

Cone 10 Reduction
John Givvines

Albany Slip	30
Nephelyne Syenite	30
Whiting	14
Rutile	10
Flint	9
Bentonite	1

<u>SLG 30 Matte</u>	19	Cone 10 Reduction John Givvines
Albany Slip	64	
Feldspar	34	
Rutile	2	
Bentonite	2	

SLG 30 Satin

Substitute Nephelyne Syenite for the Feldspar.

<u>Tan</u>		Cone 10 Reduction John Givvines
Dolomite	146.4	
Feldspar G200	156.8	
Kaolin	136	
Nephelyne Syenite	150	
Red Iron Oxide	11.2	
Rutile	4.2	
Superpax	115	

Best if overlapped lighter in color if thick.

20
GREEN GLAZES

Behrens Spinach Green

Gerstley Borate	50
EPK	15
Silica	35
Add:	
Chromium Oxide	2%

Cone 56 Oxidation
Conrad Weiser

Glossy with 2 or 3 dips. Without the Chromium Oxide, this base glaze will give other colors:

Cobalt Carbonate	.25 to 3%	Blue
Iron Oxide	3 to 9%	Brown
Copper Carbonate	1 to 3%	Green

Grass Green

Feldspar G200	848
Kaolin	400
Whiting	354.8
Red Iron Oxide	81.6
Talc	64

Cone 10 Reduction
John Givvines

Marianne Green

Feldspar	455
Whiting	65
Kaolin	52
Bone Ash	91
Flint	195
Bentonite	25
Talc	52
Red Iron Oxide	19

Cone 10 Reduction
John Givvines

Apply thickly.

Peacock

Soda Feldspar	367.5
Talc	122.5
Flint	161
Gerstley Borate	108
Dolomite	56
Kaolin	40

Cone 10 Reduction
John Givvines

Green (Peacock)

Chrome Oxide	6
Red Iron Oxide	4
Cobalt Oxide	1

Blue (Peacock)

Cobalt Oxide	4.2
Chrome Oxide	4.2
Red Iron Oxide	4.2

MISCELLANEOUS COLORSAlice

Dolomite	60
Kaolin	50
Cornwall Stone	40
Spodumene	40
Flint	10

Cone 10 Reduction
John Givvines

Alp

Feldspar	57
Kaolin	57
Zinc	10
Dolomite	30
Ball Clay	30
Whiting	20
Titanium	4
Red Iron Oxide	4
Ilmanite	4

Cone 10 Reduction
John Givvines

Chuck Hindes Shino

Soda Feldspar	60
Spodumene	52
EPK	12
Soda Ash	12
Nephelyne Syenite	200
Ball Clay	68

Cone 10 Reduction
Mary Roehm
Ed Duffield

D 9

Dolomite	155
Whiting	20
Feldspar	125
Kaolin	160
Flint	35
Red Iron Oxide	5

Cone 10 Reduction
John Givvines

Druckman

Cone 10 Reduction
John Givvines

Feldspar	12623
Kaolin	2270
Talc	908
Flint	908
Whiting	454
Dolomite	454

Guston Shino

Spodumene	15.2
F4 Feldspar	10.8
Soda Ash	4.0
EPK	10.0
Ball Clay	15.0
Nephelyne Syenite	45.0

Grey white orange.

Honey (Heavy Iron)

Custer Feldspar	31.6
Flint	20.4
EPK	15.0
Whiting	13.3
Iron Oxide	7.1

Rather unpleasant if not fired in salt kiln.

Honey

Feldspar	1248
Whiting	216
Zinc Oxide	196
Barium Carbonate	504
Ball Clay	240
Rutile	48
Red Iron Oxide	72
Bentonite	12

Cone 10 Reduction

Mary Roehm
Ed Duffield

Pumpkin

Center

Cone 10 Reduction
NCSU Craft

2.3 kg 4.6 kg 6.9 kg

Custer Feldspar	105 24	2108	3162
Talc	80	160	240
EPK	500	1000	1500
Whiting	426	852	1278
Bone Ash	60	120	180
Total	2120	4240	6360
Red Iron Oxide	80	160	240
Rutile	80	160	240
Bentonite	40	80	120

		Cone 10 Reduction or Oxidation
F4 Feldspar	45.4	Dawn Hoyle
Talc	3.4	
Kaolin	21.5	
Bone Ash	2.6	
Whiting	18.4	
Red Iron Oxide	3.4	
Rutile	3.4	
Bentonite	1.7	

I find this glaze a little dull by itself, but it works very well under and over other glazes to highlight an area or give some variation to color.

		Cone 10 Reduction John Givvines
Feldspar	70	
Flint	14	
Whiting	14	
Bentonite	3	
Rutile	3	
Red Iron Oxide	2	

		Cone 10 Reduction
Custer Feldspar	560	Mary Roehm
Spodumene	480	Ed Duffield

EPK	17625
Soda Ash	128

Shino #5

Soda Feldspar	18
Spodumene	16
Kaolin	2
Nephelyne Syenite	45
Soda Ash	4
Ball Clay	15

Cone 10 Reduction

Mary Roehm
Ed Duffield

Stanley Base Glaze 1185

Cone 79 Oxidation
Chris Stanley

Cornwall Stone	500		
Wollanstonite	360	or	Whiting 225
			Flint 135
Kingman Feldspar	260		
Colemanite (Gerstley Borate)	200		
Nephelyne Syenite	200		
Spodumene	160		
Talc	160		
Dolomite	80		
China Clay (EPK)	60		
Bentonite	20		
Flint	245		

Stanley Base Glaze 1185 (cont.)

Colorants:

White:

Tin Oxide	10%
-----------	-----

White pink blush:

Tin Oxide	10%
Titanium Oxide	2%

Green:

Chrome or Nickel Oxide	2%
------------------------	----

Blue:

Cobalt Oxide	0.25%
--------------	-------

Brown/green:

Red Iron Oxide	5%
Black Manganese Dioxide	3%

Yellow:	26
Red Iron Oxide	6%
Black:	
Cobalt Oxide	0.5%
Manganese Dioxide	4.0%

Cobalt Carbonate 0.5%
 Copper Carbonate 2.0%

A thick opaque glaze with good colors. This glaze is from a high school ceramics class developed for the electric kiln.

Stoney Matt

Cone 10 Reduction

John Givvines

Cornwall Stone	48
Nephelyne Syenite	33
Whiting	7
Dolomite	26
Talc	27
Kaolin	48

Yanagihara

Cone 10 Reduction
John Givvines

Feldspar	385
Flint	269
Whiting	163
Talc	125
Kaolin	30
Bentonite	30

27
ORANGE GLAZES

Orange 1

Feldspar G200	1569
Kaolin	640
Dolomite	608
Whiting	128
Superpax	512
Bentonite	64
Red Iron Oxide	64
Tin Oxide	64
Rutile	16

Cone 10 Reduction
John Givvines

Orange 2

Feldspar	50
Kaolin	50
Dolomite	50
Whiting	10
Bone Ash	8
Superpax	8
Rutile	2
Red Iron Oxide	1

Cone 10 Reduction
John Givvines

Orange 3

Feldspar	162
Dolomite	54
Whiting	9
Kaolin	75
Red Iron Oxide	4
Superpax	5

Cone 10 Reduction
John Givvines

Reitz Orange

Feldspar	240
Whiting	80
Nephelyne Syenite	60
Kaolin	60
Barium Carbonate	30
Rutile	30
Red Iron Oxide	10

Cone 10 Reduction
John Givvines

Shaner OrangeCone 910 Reduction
Dawn Hoyle

F4 Feldspar	50
Kaolin	24
Whiting	21
Bone Ash	3
Talc	4
Red Iron Oxide	4
Rutile	4

Most dependable orange glaze I've used.

29
RED GLAZES

Flame

Feldspar	60
Spodumene	40
Dolomite	45
Kaolin	50
Whiting	8
Superpax	10

Cone 10 Reduction
John Givvines

Iron Red

Custer Feldspar	27.9
Dolomite	14.4
Tennessee Ball Clay	13.3
Flint	13.9
Bone Ash	16.4
Red Iron Oxide	14.0

Cone 10 Reduction
Dawn Hoyle

This glaze should be applied thinly. It's good on stoneware and porcelain. Can be fired anywhere in kiln, but does best in cold spots with less reduction.

Joan's Plum

Soda Feldspar	214.6
Flint	190.8
Kaolin	54.8
Black Iron Oxide	11
Red Iron Oxide	54.4
Whiting	84

Cone 10 Reduction
John Givvines

Color is close to Temmoku, but with purple hue sometimes.
Sometimes develops crystals.

Ohata Red

Center

	<u>2 kg</u>	<u>4 kg</u>	<u>6 kg</u>
Kona F4 Feldspar	880	1760	2640
EPK	114	228	342

Cone 10 Reduction
NCSU Craft

Whiting	1300	260	390
Talc	114	228	342
Flint	390	780	1770
Bone Ash	180	360	540
Total	1808	3616	6024
Red Iron Oxide	194	388	582
Bentonite	40	80	120

Persimmon Cone 10 Reduction
John Givvines

Bentonite	125
Bone Ash	455
Feldspar K200	2274.2
Flint	975
Kaolin	260
Red Iron Oxide	585
Talc	260
Whiting	325

Plum Cone 10 Reduction
John Givvines

Cornwall Stone	250
Albany Slip	550
Red Iron Oxide	110
Whiting	100

Temokuse (Iron Saturate) Cone 10 Reduction
NCSU Craft

Center	<u>1.1 kg</u>	<u>3.4 kg</u>	<u>5.7 kg</u>
Custer Feldspar	400	1200	2000
Flint	300	900	1500
Whiting	200	600	1000
EPK	100	300	500
Total	1000	3000	5000
Red Iron Oxide	140	420	700

RED GLAZES (COPPER)Chun Red

Feldspar	374
Kaolin	155
Whiting	127
Dolomite	62
Titanium	13
Barium Carbonate	99
Tin Oxide	10
Copper Carbonate	10
Red Iron Oxide	5

Cone 10 Reduction
John Givvines

Copper Red #1

Feldspar	6390
Kaolin	222
Flint	3994
Whiting	399
Gerstley Borate	1331
Dolomite	1331
Zinc Oxide	266
Barium Carbonate	665
Tin Oxide	399
Copper Carbonate	75

Cone 10 Reduction
John Givvines

Flambe

Feldspar	1440
Kaolin	500
Flint	900
Whiting	90
Gerstley Borate	300
Dolomite	300
Zinc Oxide	40
Barium Carbonate	150
Tin Oxide	90
Copper Carbonate	15

Cone 10 Reduction
John Givvines

Variation:

Red Iron Oxide	50
Zinc Oxide	50

Funny Runny Bunny

Salt, Cone 10
Conrad Weiser

Buckingham Spar	330
Kaolin	17
Flint	312
Whiting	31
Gerstley Borate	104
Dolomite	104
Zinc Oxide	20
Barium Carbonate	52
Tin Oxide	31
Copper Carbonate	10

May be red with pink spots, occasionally cloudy or clear.
Risky, but sometimes worth the trouble. For salt firings only.

G 203

Cone 10 Reduction
John Givvines

Flint	3090
Soda Feldspar	2721
Whiting	1288
Frit 3195	1181
Superpax	794
Kaolin	554
Dolomite	197
Zinc Oxide	86
Copper Oxide	79

King Red 1

Cone 10 Reduction
John Givvines

Feldspar	439
Flint	181
Whiting	204
Kaolin	37
Ball Clay	113
Tin Oxide	11
Copper Carbonate	6

King Red 3

Feldspar	530
Flint	170
Whiting	150
Kaolin	60
Talc	40
Zinc Oxide	50
Tin Oxide	10
Copper Carbonate	3

Cone 10 Reduction
John Givvines

Oxblood

Nephelyne Syenite	1663
Feldspar	358
Flint	77
Gerstley Borate	887
Whiting	515
Copper Carbonate	11
Tin Oxide	39

Cone 10 Reduction
John Givvines

Oxblood 2

Soda Feldspar	3010
Gerstley Borate	412
Whiting	450
Copper Carbonate	11
Tin Oxide	39

Cone 10 Reduction
John Givvines

Red #1

Nephelyne Syenite	2069
Gerstley Borate	463
Whiting	402
Flint	822
Copper Carbonate	14
Tin Oxide	37

Cone 10 Reduction
John Givvines

Red #2

Cone 10 Reduction

Feldspar	311
Flint	294
Gerstley Borate	141
Zinc Oxide	83
Barium Carbonate	67
Talc	64
Copper Carbonate	20
Tin	15

35
WHITE GLAZES

"A" Glaze

Potash Feldspar	41.3
Whiting	14.9
Zinc Oxide	12.0
EPK	4.9
Silica	26.9
Titanium Dioxide	5.0

Cone 56 Oxidation
Conrad Weiser

This is a white basic glaze which will show texture nicely. Two or three dips gives a glossy surface. Is especially attractive over an albany slip underglaze decoration.

With colorant additions

you get:

Nickel Oxide	0.5 5%	Varying degrees of greenish cream.
Cobalt Carbonate blue.	0.25 3%	Light to dark
Copper Carbonate green.	0.5 3%	Light to med
Iron Oxide	3 9%	Buff to brown.
Cobalt Carbonate Copper Carbonate	0.5% 2.0%	Robin's egg blue.
Cobalt Carbonate Copper Carbonate	0.25% 2.0 %	Bright blue.

Best Possible White

Kaolin	100
Ball Clay	100
Nephelyne Syenite	500
Flint	100
Gerstley Borate	100
Talc	100
Zinc Oxide	15

Cone 10 Reduction
John Givvines

Edge's White (maybe clear)

Raku
Edge Barnes

Gerstley Borate	50
Nephelyne Syenite	20
Georgia Kaolin	10
Kona F4 Feldspar	20

Ferguson White

Cone 10 Reduction
NCSU Craft

Center

	1.1 kg	3.4 kg	5.7 kg
--	--------	--------	--------

Custer Feldspar	500	1500	2500
EPK (Calcined)	120	360	600
EPK (Raw)	120	360	600
Dolomite	160	480	800
Whiting	100	300	500
Total	1000	3000	5000
Tin Oxide	50	150	250
Bone Ash	80	240	400

Matte & White

Cone 6 Oxidation
Conrad Weiser

Potash Feldspar (Custer)	51.6
Flint	5.6
Whiting	18.8
Zinc Oxide	8.6
EPK	<u>15.4</u>
	100.0

Temple White

Cone 10 Reduction
Dawn Hoyle

G200 Feldspar	35
Dolomite	19.7
Whiting	2.6
Kaolin	22.6
Flint	20
Bentonite	2

This is my basic white glaze which fires to a grayed white in

heavy reduction. it is very stabl~~E~~^E and does not move. I've recently started using G200 spar instead of Custer spar, the original ingredient, because G200 is so much cheaper here in N.C.

* According to Ceramics Monthly (Feb. '84), Rick Berman uses this glaze for Cone 9 oxidation firing by changing the Kaolin to Kentucky Ball Clay in the same amount. He also opacifies this glaze with the addition of 10% Zircopax.

Variation:

Blue

1 Gal. Temple White
2 Tbsp. Red Iron Oxide
2 Tbsp. Cobalt Carbonate

White Liner

Cone 10 Reduction
Dawn Hoyle

F4 Feldspar	41
Gerstley Borate	12
Dolomite	7
Talc	15
Ball Clay	5
Flint	20
Zircopax	20

This is a satin, shiny glaze that is especially good for the inside of casseroles, teapots, etc.

YELLOW GLAZESBringle Yellow

Oxidation

Ctr.

Custer Feldspar	40
EPK	25
Whiting	4
Dolomite	22
Rutile	5

Cone 910 Reduction
or

Sertoma Arts

Mead (Yellow)

Feldspar G200	425
Barium Carbonate	230
Superpax	180
Dolomite	166
Ball Clay	120
Flint	45
Gerstley Borate	11
Red Iron Oxide	27

Cone 10 Reduction
John GivvinesMustard

Feldspar	98
Whiting	36
Kaolin	30
Rutile	18
Zinc Oxide	10
Red Iron Oxide	8

Cone 10 Reduction
John Givvines

39
SLIPS

Bringle Slip

Cone 10 Reduction
NCSU Craft

Center	
Kaolin	20
Ball Clay	20
Nephelyne Syenite	25
Flint (Silica)	30
Borax	5

Brown:

Red Iron Oxide	40
Rutile	10

Blue:

Chrome	4
Cobalt Oxide	3

White:

Tin Oxide	7
Borax	5

Golden:

Rutile	10
Gerstley Borate	10

Black:

Cobalt Oxide	5
Red Iron Oxide	22
Manganese Dioxide	16

Green:

Chrome	40
Cobalt Carbonate	30

Yellow:

Rutile	40
--------	----

Use on leather hard or bisque. Make thinner for bisque. Dawn uses the green and yellow, thinned down like watercolors, on top of glazes.

Golden Slip

Cone 10 Reduction
Dawn Hoyle

Rutile	10	40
Gerstley Borate	10	
EPK	2	

Minnis' Slips

Cone 10
Sherry Nicholson

Brown:

Albany Slip	70
Red Iron Oxide	30

Rutile:

(Pink in oxidation, yellow in reduction)

Rutile	30
Albany Slip	70

Blue:

Cobalt Carbonate	5
Albany Slip	95

Black:

Albany Slip	90
Manganese Dioxide	10
Chrome	10
Copper Oxide	10

| or Black Glaze stain

Sherry uses on leather hard greenware.

Dawn uses the brown on top of glaze (thinned down).

41
CLAY BODIES

Penland Porcelain

Tile 6 Kaolin	200 lb.
Ball Clay	35 lb.
NC4 Feldspar	120 lb.
Silica	100 lb.
Pyrotrol (porcelain grog)	40 lb.
Bentonite	8 lb.

Cone 10

Mary Roehm
Ed Duffield

Penland Stoneware

A P Green fire clay	400 lb.
Ball Clay	225 lb.
NC4 Feldspar	30 lb.
Burnsred (ocmulgee)	75 lb.
Grog	25 lb.

Cone 10

Mary Roehm
Ed Duffield

NOTES AND TIPSMarking Ink

Dawn Hoyle

Cobalt Oxide	1.5 tsp.
Red Iron Oxide	1.0 tsp.
Chrome Oxide	0.5 tsp.

Mix in enough water to make the consistency of ink. I use this to sign my pots it's black. Also good for marking test pots.

Kiln Wash

Dawn Hoyle

Kaolin	20%
Flint	80%

To apply wet shelf, then brush on several coats in opposite directions. Not necessary to dry between coats.

Easy Way to Mix Glazes

Dawn Hoyle

Measure and mix dry ingredients in a covered container. Pour it into another container with water in it. (I usually step outside to do this part, if possible, and wear a mask.) Leave for about an hour and allow dry ingredients to become moist. Then stir (I use a Jiffy mixer), strain several times and adjust water for correct consistency.

ALPHABETICAL LIST OF GLAZES

"A" Glaze	50
Albany Dark Brown	10
Alfred L. Celadon	12
Alice	32
Alp	32
Aurora Copper Luster	19
Beautiful Blue	6
Behren's Spinach Green	28
Best Possible White	50
Birds Beak Blue	6
Blue Break Up	6
Blue Olive	7
Bringle Slip	58
Bringle Yellow	55
Buttercream	24
Buttermilk	24
Celadon	12
Choy Blue Celadon	12
Chuck Hindes Shino	32
Chun Red	45
Clear Glaze	15
Copper Colemanite	19
Copper Luster	19
Copper Matte	19
Copper Red #1	45
Crane	24
Cushing Black	3
D 9	32
Druckman	32
Edge's White	50
Ferguson White	51
Flambe	45
Flame	41
Foundry Celadon	13

Funny Runny Bunny	44	46
G 203		46
Georgia Clear		15
Golden Slip		58
Grass Green		28
Guston Shino		33
Honey		33
Honey (Heavy Iron)		33
Hymen's Basic Matte		24
Iron Red		41
Joan's Plum		41
K10		3
King Red 1		46
King Red 3		46
Leach's Transparent Base		15
Lithium Glaze		20
Lizard Skin		20
LMG		20
Marianne Green		28
Matte & White		51
Mead		55
Minnis' Slips		59
Moonglow		25
Mustard		55
Oatmeal		25
Ohata Red		41
Orange 1		38
Orange 2		38
Orange 3		38
Oxblood		47
Oxblood 2		47

Peacock	29
Persimmon	42
Plum	42
Pumpkin	33
Pumpkin	34
Raku Base Glaze	16
Raku Transparent	16
Red #1	47
Red #2	47
Reitz Orange	38
Rhodes Black	3
Satin Doll	3
Shaner Orange	39
Shino #3	34
Shino #5	34
Simmon	34
SLG 25 Tan	25
SLG 30 Matte	25
SLG 30 Satin	25
Stanley Base Glaze	34
Stoney Matt	35
T14 Celadon	13
Tan	25
Temokuse	42
Temple White	51
#13 Transparent	16
Turner Blue	7
Val's Copper Luster	20
Vera Blue	7
Weiser Rust	21
White Liner	52
Willie Hillix	21

47
INDEX 1 GLAZES BY COLOR

Black	
Copper Colemanite	19
Cushing Black	3
K10 3	
Rhodes Black	3
Satin Doll	3
Stanley Base Glaze	35
Willie Hillix	21
 Blue	
"A" Glaze	50
Beautiful Blue	6
Behrens Spinach Green	28
Birds Beak Blue	6
Blue Break Up	6
Blue Olive	7
Choy Blue Celadon	12
Copper Colemanite	19
Georgia Clear	15
Leach's Transparent Base	15
Peacock	29
Stanley Base Glaze	35
Temple White	51
Turner Blue	7
Vera Blue	7
Willie Hillix	21
 Brown	
"A" Glaze	50
Albany Dark Brown	10
Behrens Spinach Green	28
Stanley Base Glaze	35
 Celadon	
Alfred L.Celadon	12
Celadon (NCSU)	12
Choy Blue Celadon	12
Foundry Celadon	13
Leach's Transparent Base	15
T14 Celadon	13

Clear/Transparent		
#13 Transparent		16
Clear Glaze		15
Georgia Clear		15
Leach's Transparent Base		15
Raku Base Glaze		16
Raku Transparent		16
 Copper		
"A" Glaze		50
Aurora Copper Luster		19
Copper Colemanite		19
Copper Luster		19
Copper Matte		19
Lithium Glaze		20
Lizard Skin		20
LMG 20		
Val's Copper Luster		20
Weiser Rust		21
Willie Hillix		21
 Cream/Offwhite		
"A" Glaze		50
Buttercream		24
Buttermilk		24
Crane		24
Hymen's Basic Matte		24
Moonglow		25
Oatmeal		25
SLG 25 Tan		25
SLG 30 Matte		25
SLG 30 Satin		25
Tan 25		
 Green		
"A" Glaze		50
Alfred L.Celadon		12
Behrens Spinach Green		28
Celadon		12
Copper Colemanite		19
Grass Green		28
Marianne Green		28
Peacock		29
Stanley Base Glaze		35
Val's Copper Luster		20

Orange		
Guston Shino	33	
Orange 1	38	
Orange 2	38	
Orange 3	38	
Reitz Orange	38	
Shaner Orange	39	

Pink		
Funny Runny Bunny	46	
Stanley Base Glaze	35	

Red		
Flame	41	
Iron Red	41	
Joan's Plum	41	
Ohata Red	41	
Persimmon	42	
Plum	42	
Temokuse	42	
Willie Hillix	21	

Red (Copper)		
Chun Red	45	
Copper Red	45	
Flambe	45	
Funny Runny Bunny	46	
G 203	46	
King Red 1	46	
King Red 3	46	
Oxblood	47	
Oxblood 2	47	
Red #1	47	
Red #2	47	

Turquoise		
Copper Colemanite	19	

White	50	
"A" Glaze		50
Best Possible White		50
Edge's White		50
Ferguson White		51
Guston Shino		33
Leach's Transparent Base		15
Matte & White		51
Stanley Base Glaze		35
Temple White		51
White Liner		52
Yellow		
Bringle Yellow		55
Hymen's Basic Matte		24
Mead		55
Mustard		55
Stanley Base Glaze		35

INDEX 2 GLAZES BY TEMPERATURE/FIRING METHOD

Cone 45 Oxidation	
Copper Colemanite	19
Cone 56 Oxidation	
"A" Glaze	50
Behrens Spinach Green	28
Blue Break Up	6
Cone 6 Oxidation	
Beautiful Blue	6
LMG 20	
Matte & White	51
Cone 79 Oxidation	
Stanley Base Glaze	34
Cone 910 Oxidation	
Bringle Yellow	55
Crane	24
Oatmeal	25
Cone 10 Oxidation	
Blue Olive	7
Hymen's Basic Matte	24
Pumpkin	34
Cone 910 Reduction	
Bringle Yellow	55
Crane	24
Cushing Black	3
Leach's Transparent Base	15
Oatmeal	25
Satin Doll	3
Shaner Orange	39
Cone 10 Reduction	
#13 Transparent	16

Albany Dark Brown	52	10
Alfred L. Celadon		12
Alice		32
Alp	32	
Best Possible White		50
Birds Beak Blue		6
Blue Olive		7
Bringle Slip		58
Buttercream		24
 Cone 10 Reduction (cont.)		
Buttermilk		24
Celadon		12
Choy Blue Celadon		12
Chuck Hinds Shino		32
Chun Red		45
Copper Red #1		45
D 9	32	
Druckman		32
Ferguson White		51
Flambe		45
Flame		41
Foundry Celadon		13
G 203		46
Georgia Clear		15
Golden Slip		58
Grass Green		28
Guston Shino		33
Honey		33
Hymen's Basic Matte		24
Iron Red		41
Joan's Plum		41
K10	3	
King Red 1		46
King Red 3		46
Marianne Green		28
Mead		55
Moonglow		25
Mustard		55
Ohata Red		41
Orange 1		38
Orange 2		38
Orange 3		38
Oxblood		47
Oxblood 2		47
Peacock		29
Persimmon		42
Plum		42

Pumpkin	53	33,	34
Red #1		47	
Red #2		47	
Reitz Orange		38	
Rhodes Black		3	
Shino #3		34	
Shino #5		34	
Simmon		34	
SLG 25 Tan		25	
SLG 30 Matte		25	
SLG 30 Satin		25	
Stoney Matte		35	
T14 Celadon		13	
Tan 25			
Temokuse		42	
Temple White		51	
Turner Blue		7	
Vera Blue		7	
Cone 10 Reduction (cont.)			
White Liner		52	
Willie Hillix		21	
Yanagihara		35	
Raku			
Aurora Copper Luster		19	
Clear Glaze		15	
Copper Luster		19	
Copper Matte		19	
Edge's White		50	
Lithium Glaze		20	
Lizard Skin		20	
Raku Base Glaze		16	
Raku Transparent		16	
Val's Copper Luster		20	
Weiser Rust		21	
Salt			
Funny Runny Bunny		46	
Honey		33	