D-SQUAME® DISC IMAGE ANALYSIS

FINDINGS: Overall, the results are consistent with Products A, B and C inducing a similar general decrease in scaling, U remaining unchanged from baseline and Product D exhibiting increased scaling suggesting an irritant effect.

Sample Report
Product Effect Study

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Report Date

EQUIPMENT

PC: IBM compatible Pentium III 500Mhz with 256 mb memory running under Windows 2000 Professional.

Video: Cohu solid state B&W camera, 50mm lens/30mm extension, Coreco TCI Ultra frame grabber.

Software: OPTIMAS v6.5, Microsoft EXCEL 2003, StatSoft STATISTICA 7.

Lighting: Fluorescent "Flood Lamps" appropriately positioned for even lighting.

METHOD

The image capture system was set to "flat" response i.e. the contrast and brightness were adjusted to 50% of their variable range. The camera lens aperture was adjusted to give a mean gray level of 130 units when the target was a standard brightness reference surface.

Under the selected magnification, the **D-SQUAME®** disc fills the entire monitor screen and a typical disc with scales on it exhibits both black background in areas not covered by scales and bright areas where there are dense flakes.

The gray level histogram of the captured image was obtained by the software program. 4 reported parameters were derived from the histogram which reports the sample area percentage observed at each of 256 levels of brightness.

1. Average brightness of the sample under standardized lighting conditions: ranges from 0 to 255, increasing with the overall amount and thickness of dry skin scales*.
2. Percent (times 10) of the sample area covered by fine flakes. This is the sum of the histogram values from level 10 to level 128 representing the thinnest flakes.
3. Percent (times 10) of the sample area covered by coarse flakes. This is the sum of the histogram from level 129 to 255 representing the highly reflective thick flakes.
4. The desquamation index (Schatz et al) derived from the formula:

$$DI = (2A + \sum_{n=1 \text{ to } 5} [T_n \bullet (n-1)])/6$$

A = Percent area covered by all scales

T_n = Sum of percent of scale area in histogram range assigned to thickness level n

n = Thickness level ranging from 1 to 5 (5 equal sized ranges of the histogram)

*Recorded but not used in statistical analysis.

RESULTS

Samples were received representing a 5 paired test sites per subject at two visits (BL, 4H). After the measurements were completed, the sites were assigned to Products A, B, C, D, and U using a randomization list. The results from analysis of the 300 **D-SQUAME**® discs supplied are summarized in Table 1 in the Appendix Statistics Section. A complete listing of the results is in the Data Listing Section of the Appendix.

Changes from baseline were calculated by subtracting each subject's BL values from the appropriate 4H values. Table 2 summarizes the mean changes from baseline. Negative values mean a decrease from baseline and reduction in scaling. The mean changes were tested for significance using the one sample T-test against a value of zero.

$$t = \sqrt{n} \bullet (mean - u_0) \Big/ std.dev.$$ where $u_0 = 0$.

The t statistic was compared with values of the t distribution for the known degrees of freedom, n-1. The p value associated with this statistic, P(t), is tabulated with the appropriate means and standard deviations in Table 2. Statistically significant ($p<0.05$) entries are highlighted in bold type with shaded background.

Product comparisons were analyzed by applying the repeated measures ANOVA procedure to the baseline corrected values. The results are summarized in Table 3 which consists of similarities in the product means listed in terms of "homogenous groupings". Product means with marks in the same grouping column are not significantly different ($p<0.05$).

Decreases from baseline for all measured scaling parameters were statistically significant for Products A, B and C. All scaling parameter values for Product D were significantly *increased over baseline*. There was no statistically significant change for Product U.

PRODUCT COMPARISONS

For the Fine Flake parameter, Product A exhibited a significantly greater decrease than C, U and D. Product D was significantly higher in scaling than all the other products.

For the Coarse Flake parameter, Products A, B and C performed at parity, although only B was improved compared to U. D was significantly higher in scaling than all the other products.

For the Desquamation Index parameter, three distinct groups formed with Products A, B and C, at parity; U unchanged in a class by itself and D significantly higher in scaling index than all the other products.

Overall, the results are consistent with Products A, B and C inducing a similar general decrease in scaling, U remaining unchanged from baseline and Product D exhibiting increased scaling suggesting an irritant effect.

GENERAL GUIDELINES FOR RESULTS INTERPRETATION

The typical analysis interpretation in our experience is

- The **FINE** flakes value may not vary much as it is the general "background" of normal desquamating cells. It might be thought of as the desquamation potential, as it frequently increases in skin treated with mild keratolytics. The value may also be decreased by the emollient action of treatment products.
- The **COARSE** flakes value will be most sensitive to treatment effects, increasing with irritancy (hyperkeratosis), and decreasing with emolliency. Small and large flake values will always add up to less than 1000 which is 10 times 100%, the total area of the sample.
- **D.I.**, the desquamation index provides a good overall measure of dryness and compares well with typical clinical grades: Shatz et all give the following approximate correspondence between clinical grading and the desquamation index.

Non-Dry	8
Moderately dry	37
Severely dry	60

Reference

Schatz, Kligman, Manning and Stoudemayer "Quantification of dry (xerotic) skin by image analysis of scales removed by adhesive discs (**D-SQUAME®**)". Contribution from U of P School of medicine and Biosearch, Inc. JSCC *44:53*

APPENDIX

Statistics

Data Listing

Table 1: Breakdown Table of Descriptive Statistics (alldata in DSQSTATS.stw)

			Fine Flakes		Coarse Flakes		Desquamation Index	
VISIT	**PRODUCT**	**N**	**Means**	**Std.Dev.**	**Means**	**Std.Dev.**	**Means**	**Std.Dev.**
BL	A	30	202.1	98.1	15.2	23.3	6.7	4.6
BL	B	30	180.5	95.7	22.2	37.1	6.8	6.4
BL	C	30	170.8	84.1	14.6	16.7	5.7	4.1
BL	D	30	198.5	107.1	24.3	31.7	7.5	6.3
BL	U	30	175.3	89.4	14.9	29.5	5.7	4.9
4H	A	30	35.7	46.4	1.5	7.4	0.7	2.1
4H	B	30	40.1	22.3	0.4	0.5	0.6	0.4
4H	C	30	63.1	54.5	0.4	1.0	1.0	1.5
4H	D	30	389.1	144.2	53.0	56.1	17.3	9.6
4H	U	30	173.4	91.6	10.7	15.2	5.2	3.9

Table 2: CHANGES FROM BASELINE

Breakdown Table of Descriptive Statistics (cfbdata in DSQSTATS.stw)

		Fine Flakes			Coarse Flakes			Desquamation Index		
PRODUCT	**N**	**Means**	**Std.Dev.**	**P(t)**	**Means**	**Std.Dev.**	**P(t)**	**Means**	**Std.Dev.**	**P(t)**
A	30	-166.4	100.8	**0.0000**	-13.7	19.7	**0.0007**	-6.0	4.1	**0.0000**
B	30	-140.4	96.7	**0.0000**	-21.9	37.1	**0.0031**	-6.2	6.5	**0.0000**
C	30	-107.7	87.7	**0.0000**	-14.2	16.4	**0.0001**	-4.7	3.9	**0.0000**
D	30	190.6	167.3	**0.0000**	28.8	58.0	**0.0111**	9.8	10.3	**0.0000**
U	30	-1.9	75.7	0.8909	-4.2	22.4	0.3107	-0.5	4.3	0.4924

Table 3: PRODUCT COMPARISONS

LSD test; variable Fine Flakes (cfbdata in DSQSTATS.stw)

Fine Flakes

PRODUCT	Mean	1	2	3	4
A	-166.4	****			
B	-140.4	****	****		
C	-107.7		****		
U	-1.9			****	
D	190.6				****

LSD test; variable Coarse Flakes (cfbdata in DSQSTATS.stw)

Coarse Flakes

PRODUCT	Mean	1	2	3
B	-21.9	****		
C	-14.2	****	****	
A	-13.7	****	****	
U	-4.2		****	
D	28.8			****

LSD test; variable Desquamation Index (cfbdata in DSQSTATS.stw)

Desquamation Index

PRODUCT	Mean	1	2	3
B	-6.2	****		
A	-6.0	****		
C	-4.7	****		
U	-0.5		****	
D	9.8			****

Data Listing

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
1	BL	1	A	28.3	351.3	1.8	9.0
1	4H	1	A	12.1	35.1	0.0	0.3
1	BL	2	B	16.2	129.1	0.7	2.8
1	4H	2	B	9.8	25.2	0.1	0.3
1	BL	3	C	26.6	288.4	6.4	8.6
1	4H	3	C	13.4	71.3	0.1	0.7
1	BL	4	D	15.9	123.7	0.1	2.2
1	4H	4	D	46.5	484.4	42.6	21.8
1	BL	5	U	18.7	167.2	0.5	3.4
1	4H	5	U	16.9	145.7	0.3	2.9
2	BL	5	A	20.6	149.8	17.9	5.7
2	4H	5	A	10.0	34.4	0.0	0.4
2	BL	1	B	18.6	139.2	8.3	4.4
2	4H	1	B	11.1	53.4	0.3	1.0
2	BL	2	C	39.6	325.5	59.1	15.4
2	4H	2	C	14.0	87.8	0.5	1.6
2	BL	3	D	41.3	289.7	76.8	15.8
2	4H	3	D	20.1	192.7	1.9	4.6
2	BL	4	U	23.2	192.0	16.9	6.6
2	4H	4	U	21.4	180.2	7.4	5.2
3	BL	4	A	12.7	72.9	2.7	1.9
3	4H	4	A	8.7	22.1	0.0	0.2
3	BL	5	B	47.9	279.7	114.5	19.0
3	4H	5	B	11.2	32.5	0.2	0.4
3	BL	1	C	12.8	66.3	3.0	1.9
3	4H	1	C	13.2	78.7	0.2	1.3
3	BL	2	D	38.7	275.4	69.0	14.4
3	4H	2	D	62.3	628.9	85.5	31.3
3	BL	3	U	30.3	182.8	53.7	10.3
3	4H	3	U	27.6	190.0	35.9	8.3
4	BL	3	A	23.2	218.1	9.4	6.7
4	4H	3	A	12.7	70.9	0.0	0.7
4	BL	4	B	23.2	228.1	9.3	6.9
4	4H	4	B	10.0	29.6	0.2	0.4
4	BL	5	C	32.4	275.7	40.5	12.2
4	4H	5	C	15.4	104.8	0.4	1.5
4	BL	1	D	37.3	349.4	46.7	14.7
4	4H	1	D	54.4	339.3	137.6	24.5
4	BL	2	U	30.5	337.0	12.7	10.7
4	4H	2	U	24.8	245.8	7.0	7.3
5	BL	2	A	24.1	190.6	14.9	7.4
5	4H	2	A	9.5	26.5	0.0	0.2
5	BL	3	B	22.4	153.7	22.4	6.5
5	4H	3	B	12.7	59.1	1.3	1.2
5	BL	4	C	23.7	200.8	14.7	7.4
5	4H	4	C	12.1	55.9	0.0	0.6
5	BL	5	D	30.0	264.0	28.2	10.6
5	4H	5	D	44.1	468.4	38.8	20.4
5	BL	1	U	20.6	146.6	8.5	4.7

Data Listing

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
5	4H	1	U	13.6	63.2	1.7	1.6
6	BL	2	A	14.9	73.9	13.5	3.2
6	4H	2	A	11.3	51.9	0.2	0.8
6	BL	3	B	14.3	58.5	13.0	2.5
6	4H	3	B	10.1	34.2	1.0	0.7
6	BL	4	C	13.6	67.3	7.7	2.3
6	4H	4	C	14.3	100.5	0.0	1.6
6	BL	5	D	18.8	108.0	22.9	4.9
6	4H	5	D	44.8	447.0	57.8	19.2
6	BL	1	U	14.1	71.5	9.3	2.7
6	4H	1	U	30.6	228.3	39.5	10.6
7	BL	5	A	32.7	373.1	14.5	13.2
7	4H	5	A	10.4	43.4	0.2	0.8
7	BL	1	B	21.3	199.0	8.0	5.8
7	4H	1	B	14.0	108.3	0.1	1.9
7	BL	2	C	33.1	296.2	35.1	11.7
7	4H	2	C	16.0	115.4	2.7	2.6
7	BL	3	D	55.3	399.0	121.9	24.7
7	4H	3	D	68.3	382.1	183.0	29.8
7	BL	4	U	22.5	203.0	13.1	6.8
7	4H	4	U	42.8	410.7	51.0	18.3
8	BL	4	A	35.6	301.5	47.0	13.6
8	4H	4	A	9.7	33.1	0.1	0.4
8	BL	5	B	63.2	465.8	140.6	29.1
8	4H	5	B	10.3	37.3	0.1	0.5
8	BL	1	C	13.6	82.3	3.5	2.4
8	4H	1	C	11.0	46.8	0.2	0.5
8	BL	2	D	37.5	289.5	59.0	14.6
8	4H	2	D	43.3	375.3	62.5	18.1
8	BL	3	U	54.6	322.0	138.2	23.1
8	4H	3	U	29.8	213.0	43.8	10.4
9	BL	3	A	35.5	323.9	39.9	14.1
9	4H	3	A	10.1	38.7	0.1	0.5
9	BL	4	B	25.0	221.8	17.3	7.9
9	4H	4	B	11.0	49.7	0.7	1.0
9	BL	5	C	33.7	289.4	38.4	12.3
9	4H	5	C	14.5	95.6	0.0	1.6
9	BL	1	D	35.0	345.2	28.1	13.1
9	4H	1	D	24.4	249.4	5.9	6.2
9	BL	2	U	26.9	279.9	7.7	8.7
9	4H	2	U	25.9	259.3	9.1	9.0
10	BL	2	A	31.4	249.6	43.7	11.6
10	4H	2	A	9.2	30.8	0.1	0.4
10	BL	3	B	33.3	263.7	48.9	12.5
10	4H	3	B	10.7	46.1	0.0	0.4
10	BL	4	C	35.8	295.5	48.2	13.5
10	4H	4	C	9.8	27.4	0.0	0.2
10	BL	5	D	38.1	373.6	41.7	15.0
10	4H	5	D	42.5	368.5	64.9	18.1

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
10	BL	1	U	12.9	74.6	2.2	2.0
10	4H	1	U	12.5	70.2	1.7	1.9
11	BL	1	A	24.3	270.0	1.7	6.8
11	4H	1	A	7.1	8.8	0.0	0.1
11	BL	2	B	20.8	209.4	1.6	5.0
11	4H	2	B	10.7	45.2	0.2	0.4
11	BL	3	C	23.8	260.2	2.1	5.6
11	4H	3	C	13.8	74.6	0.0	0.7
11	BL	4	D	26.8	289.0	6.8	8.5
11	4H	4	D	79.4	704.4	158.3	43.1
11	BL	5	U	26.0	324.1	0.4	7.0
11	4H	5	U	28.9	342.2	3.6	9.0
12	BL	5	A	20.5	204.0	0.2	4.0
12	4H	5	A	6.8	6.4	0.0	0.1
12	BL	1	B	12.1	55.3	0.0	0.7
12	4H	1	B	10.1	30.6	0.2	0.3
12	BL	2	C	18.0	143.1	0.1	2.1
12	4H	2	C	11.7	35.6	0.1	0.3
12	BL	3	D	18.5	167.9	0.1	2.7
12	4H	3	D	49.5	602.9	27.5	24.9
12	BL	4	U	15.2	97.3	0.1	1.1
12	4H	4	U	18.0	151.7	0.0	2.0
13	BL	4	A	16.0	127.2	0.2	2.5
13	4H	4	A	7.5	12.8	0.0	0.1
13	BL	5	B	32.0	337.9	20.1	12.1
13	4H	5	B	11.0	32.7	0.4	0.5
13	BL	1	C	16.7	118.6	4.4	3.3
13	4H	1	C	13.3	69.8	0.1	1.0
13	BL	2	D	37.4	325.2	46.1	14.2
13	4H	2	D	29.4	287.4	17.7	10.3
13	BL	3	U	43.0	291.2	88.9	17.3
13	4H	3	U	30.5	238.7	37.7	10.2
14	BL	3	A	18.5	179.3	2.5	4.4
14	4H	3	A	7.7	9.2	0.1	0.1
14	BL	4	B	24.3	254.9	5.1	7.2
14	4H	4	B	12.3	50.2	0.4	0.9
14	BL	5	C	22.2	227.5	5.8	6.4
14	4H	5	C	10.8	36.9	0.1	0.4
14	BL	1	D	15.3	118.4	0.2	1.8
14	4H	1	D	35.7	369.7	25.0	13.4
14	BL	2	U	19.3	194.5	2.3	4.1
14	4H	2	U	20.9	201.1	0.1	4.0
15	BL	2	A	25.5	168.5	36.4	8.0
15	4H	2	A	7.8	17.3	0.1	0.3
15	BL	3	B	18.3	112.6	13.4	4.1
15	4H	3	B	12.9	50.5	2.3	0.8
15	BL	4	C	23.0	161.9	24.5	6.5
15	4H	4	C	8.5	18.1	0.0	0.2
15	BL	5	D	24.8	164.5	35.6	7.7

Data Listing

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
15	4H	5	D	23.4	200.4	6.4	5.6
15	BL	1	U	12.9	67.4	4.3	2.0
15	4H	1	U	15.8	84.4	11.8	3.2
16	BL	1	A	14.0	94.0	2.6	2.5
16	4H	1	A	7.6	15.8	0.5	0.2
16	BL	2	B	29.2	156.9	55.3	9.2
16	4H	2	B	9.7	23.2	0.0	0.2
16	BL	3	C	16.1	91.0	13.4	3.6
16	4H	3	C	10.0	24.6	0.0	0.3
16	BL	4	D	12.4	64.4	5.3	2.0
16	4H	4	D	24.5	217.7	15.2	7.4
16	BL	5	U	23.0	179.2	23.0	7.0
16	4H	5	U	17.1	121.9	11.4	4.4
17	BL	5	A	19.6	166.8	10.0	5.5
17	4H	5	A	11.7	44.8	0.0	0.4
17	BL	1	B	16.8	97.8	11.2	3.4
17	4H	1	B	13.6	65.8	0.9	1.2
17	BL	2	C	17.5	112.2	14.4	4.3
17	4H	2	C	15.4	103.6	0.8	2.1
17	BL	3	D	26.7	225.3	27.3	9.2
17	4H	3	D	39.1	401.6	32.3	16.7
17	BL	4	U	15.1	97.1	7.9	3.2
17	4H	4	U	25.5	194.3	23.3	7.1
18	BL	4	A	43.9	350.5	78.8	17.9
18	4H	4	A	12.7	65.4	0.3	1.2
18	BL	5	B	25.1	207.1	22.7	7.6
18	4H	5	B	13.4	70.7	0.0	0.8
18	BL	1	C	21.4	196.3	7.1	5.6
18	4H	1	C	10.2	25.9	0.0	0.2
18	BL	2	D	21.1	167.9	16.1	5.9
18	4H	2	D	17.6	159.1	3.2	4.4
18	BL	3	U	21.4	164.3	18.4	6.0
18	4H	3	U	14.3	93.1	7.9	2.9
19	BL	3	A	17.2	106.8	7.9	3.3
19	4H	3	A	8.9	20.5	0.0	0.2
19	BL	4	B	15.5	118.6	3.7	3.3
19	4H	4	B	13.8	86.8	0.3	1.5
19	BL	5	C	27.2	214.6	34.5	8.8
19	4H	5	C	12.5	57.5	0.1	0.6
19	BL	1	D	12.1	62.8	0.1	1.0
19	4H	1	D	20.2	187.4	3.5	5.3
19	BL	2	U	11.4	58.0	0.6	1.2
19	4H	2	U	10.1	34.1	0.2	0.5
20	BL	2	A	11.3	37.9	0.5	0.7
20	4H	2	A	8.1	19.6	0.1	0.2
20	BL	3	B	11.0	48.6	1.7	1.2
20	4H	3	B	8.7	16.3	0.1	0.2
20	BL	4	C	8.6	24.5	0.3	0.5
20	4H	4	C	7.8	15.3	0.2	0.2

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
20	BL	5	D	9.5	38.7	0.6	0.9
20	4H	5	D	19.7	149.5	10.5	5.2
20	BL	1	U	10.7	40.4	2.0	1.0
20	4H	1	U	8.5	23.7	0.2	0.4
21	BL	1	A	14.9	81.2	5.3	2.1
21	4H	1	A	10.0	27.9	0.3	0.4
21	BL	2	B	12.5	49.0	8.1	1.8
21	4H	2	B	9.3	26.4	0.6	0.5
21	BL	3	C	14.2	58.8	16.0	2.9
21	4H	3	C	9.4	29.6	0.3	0.4
21	BL	4	D	8.7	24.2	2.7	0.7
21	4H	4	D	27.2	296.7	3.8	7.9
21	BL	5	U	12.5	53.3	5.1	1.5
21	4H	5	U	18.1	96.8	11.7	3.1
22	BL	5	A	22.6	262.8	0.2	5.0
22	4H	5	A	9.1	17.0	0.0	0.2
22	BL	1	B	15.5	114.3	0.0	1.3
22	4H	1	B	9.8	22.7	0.0	0.2
22	BL	2	C	17.1	149.0	0.1	2.2
22	4H	2	C	11.1	35.0	0.0	0.3
22	BL	3	D	21.7	241.9	0.9	5.3
22	4H	3	D	38.9	367.5	50.4	15.6
22	BL	4	U	18.1	171.6	0.2	2.5
22	4H	4	U	21.1	200.4	0.2	3.0
23	BL	4	A	20.8	206.6	2.0	4.8
23	4H	4	A	10.1	30.0	0.0	0.3
23	BL	5	B	23.2	247.4	4.0	6.5
23	4H	5	B	11.8	44.3	0.4	0.4
23	BL	1	C	16.8	133.4	1.1	2.6
23	4H	1	C	8.7	19.1	0.1	0.2
23	BL	2	D	17.1	145.5	0.6	2.8
23	4H	2	D	60.7	446.8	143.2	26.1
23	BL	3	U	29.9	358.0	6.0	10.9
23	4H	3	U	23.9	243.0	1.0	5.2
24	BL	3	A	28.0	365.0	1.3	8.4
24	4H	3	A	9.7	17.3	0.0	0.2
24	BL	4	B	19.5	198.2	0.3	3.5
24	4H	4	B	9.9	20.7	0.1	0.2
24	BL	5	C	14.3	106.2	0.3	1.9
24	4H	5	C	12.2	41.6	0.0	0.2
24	BL	1	D	12.9	78.0	0.2	1.3
24	4H	1	D	48.3	539.9	48.6	22.1
24	BL	2	U	21.0	204.5	0.8	4.1
24	4H	2	U	20.3	160.0	0.1	2.0
25	BL	2	A	42.5	264.1	89.9	16.6
25	4H	2	A	32.1	266.5	40.4	12.0
25	BL	3	B	49.3	299.7	117.2	20.5
25	4H	3	B	10.4	31.1	1.2	0.5
25	BL	4	C	24.4	192.0	24.2	7.7

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
25	4H	4	C	27.1	304.1	4.9	8.2
25	BL	5	D	42.2	293.8	85.0	16.6
25	4H	5	D	45.9	559.9	29.5	20.7
25	BL	1	U	21.2	173.7	11.2	5.7
25	4H	1	U	21.7	190.4	9.8	5.8
26	BL	1	A	13.4	83.7	1.2	1.8
26	4H	1	A	11.1	37.7	0.0	0.3
26	BL	2	B	15.8	115.8	4.9	3.3
26	4H	2	B	9.3	25.7	0.2	0.3
26	BL	3	C	26.5	212.4	27.9	8.5
26	4H	3	C	12.8	73.3	0.3	1.4
26	BL	4	D	14.2	77.5	3.3	1.9
26	4H	4	D	39.5	531.0	11.0	16.6
26	BL	5	U	17.0	116.1	9.7	3.8
26	4H	5	U	11.8	47.8	1.9	1.1
27	BL	5	A	27.0	312.6	3.9	8.8
27	4H	5	A	8.6	11.6	0.2	0.1
27	BL	1	B	17.4	157.2	0.1	2.8
27	4H	1	B	12.1	48.6	0.2	0.6
27	BL	2	C	16.4	127.5	0.3	1.8
27	4H	2	C	8.5	13.5	0.1	0.1
27	BL	3	D	19.7	192.4	0.3	3.7
27	4H	3	D	70.3	466.2	190.8	32.3
27	BL	4	U	16.3	139.9	0.2	2.6
27	4H	4	U	24.8	273.2	2.1	6.2
28	BL	4	A	16.6	135.3	0.2	2.5
28	4H	4	A	7.8	11.4	0.2	0.1
28	BL	5	B	14.7	103.9	0.1	1.6
28	4H	5	B	8.7	9.8	0.0	0.1
28	BL	1	C	13.0	83.3	0.2	1.4
28	4H	1	C	12.0	55.0	0.1	0.5
28	BL	2	D	19.1	175.0	0.2	3.2
28	4H	2	D	36.1	425.7	17.3	14.0
28	BL	3	U	21.5	232.6	1.4	4.4
28	4H	3	U	24.4	263.8	0.3	4.9
29	BL	3	A	18.9	182.0	1.5	4.1
29	4H	3	A	9.3	17.2	0.2	0.2
29	BL	4	B	16.0	122.6	0.2	2.3
29	4H	4	B	8.3	12.5	0.0	0.1
29	BL	5	C	19.9	189.8	3.3	4.8
29	4H	5	C	12.4	40.9	0.1	0.3
29	BL	1	D	17.3	128.3	0.4	2.6
29	4H	1	D	35.1	391.1	20.0	12.4
29	BL	2	U	19.3	176.9	1.8	4.1
29	4H	2	U	18.2	137.1	0.2	2.6
30	BL	2	A	18.1	158.8	3.7	4.4
30	4H	2	A	9.0	26.0	1.1	0.5
30	BL	3	B	26.5	268.9	14.2	9.2
30	4H	3	B	8.1	14.1	0.1	0.2

Data Listing

Subject	VISIT	SITE	PRODUCT	Gray Level	Fine Flakes	Coarse Flakes	D.I.
30	BL	4	C	16.1	133.6	0.7	3.0
30	4H	4	C	10.6	33.9	0.0	0.3
30	BL	5	D	17.7	155.6	2.1	4.1
30	4H	5	D	52.5	430.7	95.8	22.3
30	BL	1	U	16.5	143.0	0.3	2.7
30	4H	1	U	13.4	98.2	0.3	1.8