

TABLE 1.

TURFGRASS COLOR RATINGS FOR 2003 IN ITHACA, NY
FOLLOWING THE APPLICATION OF WETTING AGENTS.

NAME	TURFGRASS COLOR RATINGS ^a									
	1 WEEK ^b	3 WEEKS	5 WEEKS	7 WEEKS	9 WEEKS	11 WEEKS	13 WEEKS	15 WEEKS	17 WEEKS	YEARLY AVE.
AQUEDUCT	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0
BRILLIANCE	7.5	7.0	7.0	7.5	7.8	7.5	7.0	7.5	8.5	7.5
CASCADE PLUS	7.0	6.5	6.0	7.0	7.0	7.0	6.5	7.0	8.0	6.9
CONTROL	7.5	7.0	6.5	7.5	7.5	7.5	7.0	7.5	8.5	7.4
HYDRO-WET	7.0	7.0	6.5	7.0	7.0	7.0	7.0	7.0	8.0	7.1
LESCOFLO	7.5	7.0	6.5	7.5	7.5	7.5	7.3	7.5	8.5	7.4
NAIAD	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0
PRIMER SELECT	7.3	7.3	7.0	7.3	7.8	7.3	7.3	7.3	8.3	7.4
RESPOND 2	7.0	6.8	6.5	7.0	7.3	7.0	6.8	7.0	8.0	7.0
SURFSIDE 37	7.0	6.5	6.0	7.0	7.0	7.0	6.8	7.0	8.0	6.9
TRICURE	7.3	7.0	6.5	7.3	7.3	7.3	7.0	7.3	8.3	7.2
LSD ^c	0.8	0.6	0.6	0.8	0.7	0.8	0.7	0.8	0.8	0.6
CV ^d (%)	5.3	4.8	6.1	5.3	5.5	5.3	4.9	5.3	4.6	4.2

a) Turfgrass color was visually rated using a scale of 1=brown, 5=medium green and 9=dark green.

b) Color ratings were taken every two weeks beginning one week after the initial wetting agent application which was made on June 1, 2003.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 2.

TURFGRASS QUALITY RATINGS FOR 2003 IN ITHACA, NY
FOLLOWING THE APPLICATION OF WETTING AGENTS.

TURFGRASS QUALITY RATINGS ^a										
NAME	1 WEEK ^b	3 WEEKS	5 WEEKS	7 WEEKS	9 WEEKS	11 WEEKS	13 WEEKS	15 WEEKS	17 WEEKS	YEARLY AVE.
AQUEDUCT	8.0	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0
BRILLIANCE	8.0	7.8	7.0	7.0	7.3	7.5	7.0	7.8	7.3	7.4
CASCADE PLUS	7.5	7.0	6.5	6.0	6.5	7.0	6.5	7.0	6.5	6.7
CONTROL	8.0	7.5	7.0	6.5	7.3	7.5	7.0	7.5	7.3	7.3
HYDRO-WET	8.0	7.0	7.0	6.5	7.0	7.0	7.0	7.0	7.0	7.1
LESCOFLO	8.3	7.5	7.3	6.5	7.3	7.5	7.0	7.5	7.3	7.3
NAIAD	8.0	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0
PRIMER SELECT	8.3	7.8	7.3	7.0	7.3	7.3	7.3	7.8	7.3	7.4
RESPOND 2	7.8	7.3	7.0	6.5	7.0	7.0	6.8	7.3	7.0	7.1
SURFSIDE 37	7.5	7.0	6.8	6.0	6.8	7.0	6.5	7.0	6.8	6.8
TRICURE	8.0	7.3	7.0	6.5	7.0	7.3	7.0	7.3	7.0	7.1
LSD ^c	0.7	0.7	0.6	0.6	0.8	0.8	0.6	0.7	0.8	0.5
CV ^d (%)	4.6	5.5	4.5	6.1	5.5	5.3	4.8	5.5	5.5	3.9

- a) Turfgrass quality was visually rated using a scale of 1=poor quality, 5=acceptable quality and 9=excellent quality.
- b) Turfgrass quality ratings were taken every two weeks beginning one week after the initial wetting agent application which was made on June 1, 2003.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 3.

PHYTOTOXICITY RATINGS FOR 2003 IN ITHACA, NY
 FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

PHYTOTOXICITY RATINGS^a

NAME	APP 1-1 ^b	APP 1-3	APP 1-7	APP 2-1	APP 2-3	APP 2-7	APP 3-1	APP 3-3	APP 3-7	APP 4-1	APP 4-3	APP 4-7	APP 5-1	APP 5-3	APP 5-7
AQUEDUCT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
BRILLIANCE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CASCADE PLUS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CONTROL	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HYDRO-WET	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LESCOFLO	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
NAIAD	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
PRIMER SELECT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
RESPOND 2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SURFSIDE 37	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
TRICURE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LSD ^c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV ^d (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) Phytotoxicity was visually rated using a scale of 1=brown or discolored turf, 7=acceptable damage and 9=green turf, no damage.
- b) Phytotoxicity ratings were taken one, three and seven days after each application of any wetting agent. App 1-1 refers to application number one, the ratings were taken one day after application.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 3. (CONTINUED)

PHYTOTOXICITY RATINGS FOR 2003 IN ITHACA, NY
 FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

PHYTOTOXICITY RATINGS ^a															
NAME	APP 6-1 ^b	APP 6-3	APP 6-7	APP 7-1	APP 7-3	APP 7-7	APP 8-1	APP 8-3	APP 8-7	APP 9-1	APP 9-3	APP 9-7	APP 10-1	APP 10-3	APP 10-7
AQUEDUCT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
BRILLIANCE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CASCADE PLUS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CONTROL	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HYDRO-WET	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LESCOFLO	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
NAIAD	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
PRIMER SELECT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
RESPOND 2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SURFSIDE 37	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
TRICURE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LSD ^c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV ^d (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) Phytotoxicity was visually rated using a scale of 1=brown or discolored turf, 7=acceptable damage and 9=green turf, no damage.
- b) Phytotoxicity ratings were taken one, three and seven days after each application of any wetting agent. App 6-1 refers to application number six, the ratings were taken one day after application.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 3. (CONTINUED):

PHYTOTOXICITY RATINGS FOR 2003 IN ITHACA, NY
 FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

PHYTOTOXICITY RATINGS^a

NAME	APP 11-1 ^b	APP 11-3	APP 11-7	APP 12-1	APP 12-3	APP 12-7	APP 13-1	APP 13-3	APP 13-7	APP 14-1	APP 14-3	APP 14-7	APP 15-1	APP 15-3	APP 15-7
AQUEDUCT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
BRILLIANCE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CASCADE PLUS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CONTROL	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HYDRO-WET	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LESCOFLO	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
NAIAD	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
PRIMER SELECT	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
RESPOND 2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SURFSIDE 37	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
TRICURE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LSD ^c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV ^d (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) Phytotoxicity was visually rated using a scale of 1=brown or discolored turf, 7=acceptable damage and 9=green turf, no damage.

b) Phytotoxicity ratings were taken one, three and seven days after each application of any wetting agent. App 11-1 refers to application number 11, the ratings were taken one day after application.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 4. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY
TWO WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	25.3	0.0	0	0	0	0
BRILLIANCE	29.8	0.0	0	0	0	0
CASCADE PLUS	14.0	0.0	0	0	0	0
CONTROL	41.5	4.8	0	0	0	0
HYDRO-WET	18.0	0.0	0	0	0	0
LESCOFLO	19.0	0.0	0	0	0	0
NAIAD	27.5	0.0	0	0	0	0
PRIMER SELECT	14.8	0.0	0	0	0	0
RESPOND 2	13.3	0.0	0	0	0	0
SURFSIDE 37	27.3	0.0	0	0	0	0
TRICURE	15.8	0.0	0	0	0	0
LSD ^c	5.9	1.0	0	0	0	0
CV ^d (%)	19.9	174.6	.	.	.	.

a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.

b) Depth in centimeters below the soil surface.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 5. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY
FOUR WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	23.5	0	0	0	0	0
BRILLIANCE	27.5	0	0	0	0	0
CASCADE PLUS	13.0	0	0	0	0	0
CONTROL	24.5	0	0	0	0	0
HYDRO-WET	16.8	0	0	0	0	0
LESCOFLO	17.5	0	0	0	0	0
NAIAD	25.8	0	0	0	0	0
PRIMER SELECT	13.8	0	0	0	0	0
RESPOND 2	12.3	0	0	0	0	0
SURFSIDE 37	25.3	0	0	0	0	0
TRICURE	14.8	0	0	0	0	0
LSD ^c	6.0	0	0	0	0	0
CV ^d (%)	21.9	.	.	.	.	.

a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.

b) Depth in centimeters below the soil surface.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 6. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY
EIGHT WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	7.3	0	0	0	0	0
BRILLIANCE	8.5	0	0	0	0	0
CASCADE PLUS	4.0	0	0	0	0	0
CONTROL	6.3	0	0	0	0	0
HYDRO-WET	5.0	0	0	0	0	0
LESCOFLO	5.0	0	0	0	0	0
NAIAD	7.8	0	0	0	0	0
PRIMER SELECT	4.0	0	0	0	0	0
RESPOND 2	3.5	0	0	0	0	0
SURFSIDE 37	7.8	0	0	0	0	0
TRICURE	4.5	0	0	0	0	0
LSD ^c	2.6	0	0	0	0	0
CV ^d (%)	29.9	.	.	.	.	.

a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.

b) Depth in centimeters below the soil surface.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 7. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY
 12 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	2.3	0	0	0	0	0
BRILLIANCE	2.5	0	0	0	0	0
CASCADE PLUS	1.3	0	0	0	0	0
CONTROL	3.8	0	0	0	0	0
HYDRO-WET	1.5	0	0	0	0	0
LESCOFLO	1.5	0	0	0	0	0
NAIAD	2.5	0	0	0	0	0
PRIMER SELECT	1.3	0	0	0	0	0
RESPOND 2	1.0	0	0	0	0	0
SURFSIDE 37	2.5	0	0	0	0	0
TRICURE	1.3	0	0	0	0	0
LSD ^c	1.0	0	0	0	0	0
CV ^d (%)	36.4	.	.	.	.	.

- a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.
- b) Depth in centimeters below the soil surface.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 8. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY
 16 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JUNE 1, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	0	0	0	0	0	0
BRILLIANCE	0	0	0	0	0	0
CASCADE PLUS	0	0	0	0	0	0
CONTROL	0	0	0	0	0	0
HYDRO-WET	0	0	0	0	0	0
LESCOFLO	0	0	0	0	0	0
NAIAD	0	0	0	0	0	0
PRIMER SELECT	0	0	0	0	0	0
RESPOND 2	0	0	0	0	0	0
SURFSIDE 37	0	0	0	0	0	0
TRICURE	0	0	0	0	0	0
LSD ^c	0	0	0	0	0	0
CV ^d (%)	.	.	.	.	.	.

a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.

b) Depth in centimeters below the soil surface.

c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).

d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 9. YEARLY AVERAGE WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN ITHACA, NY AFTER THE APPLICATION OF WETTING AGENTS.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a						
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM	4.5 CM	5.5 CM
AQUEDUCT	11.7	0.0	0	0	0	0
BRILLIANCE	13.7	0.0	0	0	0	0
CASCADE PLUS	6.5	0.0	0	0	0	0
CONTROL	15.2	1.0	0	0	0	0
HYDRO-WET	8.3	0.0	0	0	0	0
LESCOFLO	8.6	0.0	0	0	0	0
NAIAD	12.7	0.0	0	0	0	0
PRIMER SELECT	6.8	0.0	0	0	0	0
RESPOND 2	6.0	0.0	0	0	0	0
SURFSIDE 37	12.6	0.0	0	0	0	0
TRICURE	7.3	0.0	0	0	0	0
LSD ^c	2.8	0.2	0	0	0	0
CV ^d (%)	20.8	174.6	.	.	.	.

- a) The maximum time for water droplet penetration was 600 seconds. Any water droplet remaining after 600 seconds was recorded as 600 seconds.
- b) Depth in centimeters below the soil surface.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.

TABLE 10. DEW FORMATION/CONTROL AND FROST FORMATION RATINGS FOR 2003 IN ITHACA, NY FOLLOWING THE APPLICATION OF WETTING AGENTS.

DEW FORMATION/CONTROL AND FROST FORMATION RATINGS ^a						
NAME	DEW 1 ^b	DEW 2	DEW 3	DEW 4	YERALY AVE.	FROST 1 ^b
AQUEDUCT	4.0	5.0	5.0	8.5	5.6	5.8
BRILLIANCE	4.0	5.0	5.0	8.5	5.6	3.5
CASCADE PLUS	3.3	4.3	4.3	7.5	4.8	5.0
CONTROL	9.0	9.0	9.0	9.0	9.0	1.0
HYDRO-WET	1.5	1.5	1.5	3.5	2.0	2.0
LESCOFLO	2.3	2.8	2.8	5.3	3.3	3.0
NAIAD	3.5	4.5	4.5	8.0	5.1	5.3
PRIMER SELECT	4.3	5.3	5.3	8.5	5.8	6.0
RESPOND 2	3.8	4.5	4.5	7.5	5.1	4.5
SURFSIDE 37	4.3	5.3	5.3	8.5	5.8	5.3
TRICURE	6.3	7.3	7.3	9.0	7.4	3.0
LSD ^c	1.1	1.3	1.3	1.7	1.3	0.7
CV ^d (%)	19.9	19.8	19.8	16.1	18.1	12.7

- a) Dew formation/control was visually rated using a scale of 1=heavy dew present and 9=no dew present. Frost was visually rated using a scale of 1=heavy frost present and 9=no frost present.
- b) Dew formation/control and frost ratings were taken on various dates following the application of wetting agents.
- c) LSD is the least significant difference among the treatment means. To determine if one treatment is significantly different from another, subtract the mean of one treatment from the mean of another treatment. A statistically significant difference occurs when this value is larger than the LSD value given at the bottom of the column. Treatment means should be compared only within a column (LSD 0.05).
- d) CV is the coefficient of variation and indicates the percent variation of the treatment means in each column.