

TABLE 1.

TURFGRASS COLOR RATINGS FOR 2003 IN MONTEBELLO, CA  
FOLLOWING THE APPLICATION OF WETTING AGENTS.

NAME	TURFGRASS COLOR RATINGS <sup>a</sup>								YEARLY
	1 WEEK <sup>b</sup>	3 WEEKS	5 WEEKS	7 WEEKS	9 WEEKS	11 WEEKS	13 WEEKS	15 WEEKS	AVE.
AQUEDUCT	7.5	6.5	7.5	6.8	7.0	6.8	6.8	7.0	7.0
BRILLIANCE	7.3	6.8	8.5	7.0	7.0	7.0	6.8	7.0	7.2
CASCADE PLUS	5.8	6.3	7.3	7.0	7.3	6.3	6.0	6.3	6.5
CONTROL	7.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
HYDRO-WET	8.0	6.0	7.8	7.3	7.5	7.5	7.3	7.3	7.3
LESCOFLO	7.0	6.3	7.8	7.0	7.3	7.3	7.0	7.0	7.1
NAIAD	7.8	6.0	7.8	7.3	7.3	7.3	7.3	7.3	7.2
PRIMER SELECT	4.8	6.8	8.3	7.5	7.3	7.3	7.3	7.3	7.0
RESPOND 2	7.0	6.0	7.3	7.0	7.0	7.0	7.0	7.0	6.9
SURFSIDE 37	5.8	6.0	7.8	7.0	7.0	7.0	7.0	7.0	6.8
TRICURE	7.0	6.0	7.5	7.5	8.3	8.3	7.8	7.8	7.5
LSD <sup>c</sup>	2.0	1.3	1.2	1.1	1.7	1.8	1.3	1.1	0.8
CV <sup>d</sup> (%)	17.6	9.1	10.0	8.6	11.9	13.1	10.2	8.7	6.8

- 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 July 29, 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 MONTEBELLO, CA  
FOLLOWING THE APPLICATION OF WETTING AGENTS.

TURFGRASS QUALITY RATINGS <sup>a</sup>									
NAME	1 WEEK <sup>b</sup>	3 WEEKS	5 WEEKS	7 WEEKS	9 WEEKS	11 WEEKS	13 WEEKS	15 WEEKS	YEARLY AVE.
AQUEDUCT	7.5	6.5	7.5	7.0	7.0	7.0	7.0	7.0	7.1
BRILLIANCE	7.3	6.8	8.5	7.3	7.0	6.5	6.5	6.3	7.0
CASCADE PLUS	5.8	6.3	7.5	7.3	6.8	6.8	7.0	7.0	6.8
CONTROL	7.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
HYDRO-WET	8.0	6.0	7.3	7.0	7.0	7.0	7.0	7.0	7.0
LESCOFLO	7.0	6.3	8.0	7.5	7.3	7.3	7.3	7.3	7.2
NAIAD	7.8	6.0	7.3	7.0	7.8	7.8	7.8	7.8	7.4
PRIMER SELECT	4.8	6.8	7.8	7.0	7.3	7.3	7.3	7.3	6.9
RESPOND 2	7.0	6.0	7.3	7.0	7.0	7.0	7.0	7.0	6.9
SURFSIDE 37	5.8	6.0	7.8	7.0	7.3	7.3	7.3	7.3	6.9
TRICURE	7.0	6.0	7.8	8.0	7.8	7.8	7.8	7.8	7.5
LSD <sup>c</sup>	2.0	1.3	1.2	0.4	1.0	1.0	1.0	0.8	0.6
CV <sup>d</sup> (%)	17.6	9.1	9.7	4.1	8.2	8.7	8.4	7.7	5.4

- 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 July 29, 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 MONTEBELLO, CA  
 FOLLOWING THE APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

PHYTOTOXICITY RATINGS<sup>a</sup>

NAME	APP 1-1 <sup>b</sup>	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 <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV <sup>d</sup> (%)	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 MONTEBELLO, CA  
 FOLLOWING THE APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

PHYTOTOXICITY RATINGS <sup>a</sup>															
NAME	APP 6-1 <sup>b</sup>	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 <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV <sup>d</sup> (%)	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 MONTEBELLO, CA  
 FOLLOWING THE APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

PHYTOTOXICITY RATINGS<sup>a</sup>

NAME	APP 11-1 <sup>b</sup>	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 <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CV <sup>d</sup> (%)	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 MONTEBELLO, CA  
TWO WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.  
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS<sup>a</sup>

NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	48.3	300.5	253.5	134.7
BRILLIANCE	58.5	131.0	203.0	86.7
CASCADE PLUS	9.5	194.3	34.0	38.8
CONTROL	51.5	307.5	353.0	121.0
HYDRO-WET	9.3	142.5	519.3	113.5
LESCOFLO	6.0	181.0	314.8	125.7
NAIAD	135.0	332.5	345.3	173.3
PRIMER SELECT	13.5	23.0	55.0	40.3
RESPOND 2	166.0	396.8	410.8	214.8
SURFSIDE 37	37.0	235.0	225.5	120.3
TRICURE	36.8	164.0	202.5	83.8
LSD <sup>c</sup>	74.0	434.0	278.0	134.6
CV <sup>d</sup> (%)	95.5	90.3	63.8	59.0

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 MONTEBELLO, CA  
 FOUR WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS<sup>a</sup>

NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	93.3	279.0	224.8	64.5
BRILLIANCE	173.0	60.0	69.0	64.8
CASCADE PLUS	36.8	27.3	75.0	48.8
CONTROL	192.8	482.5	308.5	110.5
HYDRO-WET	52.8	399.5	91.3	77.0
LESCOFLO	36.0	74.8	74.5	91.0
NAIAD	181.8	229.0	126.5	92.8
PRIMER SELECT	36.3	67.8	72.3	54.0
RESPOND 2	208.3	407.0	200.8	70.5
SURFSIDE 37	82.8	182.3	158.3	60.3
TRICURE	96.5	207.3	224.8	110.5
LSD <sup>c</sup>	174.9	182.4	211.0	114.0
CV <sup>d</sup> (%)	87.9	58.2	77.5	61.6

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 6. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2003 IN MONTEBELLO, CA  
EIGHT WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.  
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS <sup>a</sup>			
NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM
AQUEDUCT	67.3	110.3	31.0
BRILLIANCE	85.5	85.8	31.0
CASCADE PLUS	62.5	96.0	26.8
CONTROL	103.0	115.3	60.8
HYDRO-WET	72.5	230.8	30.5
LESCOFLO	110.5	259.5	55.3
NAIAD	154.3	248.3	44.3
PRIMER SELECT	97.0	207.3	30.0
RESPOND 2	130.8	196.5	47.8
SURFSIDE 37	172.8	274.5	58.8
TRICURE	54.0	150.3	58.8
LSD <sup>c</sup>	59.9	314.4	58.2
CV <sup>d</sup> (%)	38.7	76.8	60.2

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 MONTEBELLO, CA  
 12 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS <sup>a</sup>			
NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM
AQUEDUCT	42.0	188.8	85.5
BRILLIANCE	105.0	238.0	72.8
CASCADE PLUS	162.0	317.3	16.3
CONTROL	153.3	269.8	37.8
HYDRO-WET	64.8	306.3	48.5
LESCOFLO	142.3	158.8	40.5
NAIAD	197.0	215.3	40.5
PRIMER SELECT	92.0	187.5	49.5
RESPOND 2	117.0	188.0	36.5
SURFSIDE 37	168.0	194.5	54.3
TRICURE	53.3	260.0	49.3
LSD <sup>c</sup>	105.9	276.3	80.9
CV <sup>d</sup> (%)	53.2	50.1	74.0

- 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 MONTEBELLO, CA  
 16 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.  
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 29, 2003.

WATER DROPLET PENETRATION MEASURED IN SECONDS <sup>a</sup>			
NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM
AQUEDUCT	62.8	95.8	26.0
BRILLIANCE	64.5	100.0	19.3
CASCADE PLUS	149.3	114.5	18.5
CONTROL	179.0	209.5	52.0
HYDRO-WET	61.8	105.3	20.0
LESCOFLO	142.0	131.5	24.5
NAIAD	91.3	167.3	15.8
PRIMER SELECT	63.3	120.0	18.3
RESPOND 2	139.5	121.3	38.3
SURFSIDE 37	85.3	133.0	21.5
TRICURE	76.5	106.0	33.3
LSD <sup>c</sup>	72.7	82.9	51.0
CV <sup>d</sup> (%)	45.5	35.9	84.5

- 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 MONTEBELLO, CA  
AFTER THE APPLICATION OF WETTING AGENTS

WATER DROPLET PENETRATION MEASURED IN SECONDS<sup>a</sup>

NAME	0.5 CM <sup>b</sup>	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	62.7	194.9	124.2	90.9
BRILLIANCE	97.3	123.0	79.0	78.8
CASCADE PLUS	84.0	149.9	34.1	43.8
CONTROL	135.9	276.9	162.4	120.6
HYDRO-WET	52.2	236.9	141.9	95.3
LESCOFLO	87.4	161.1	101.9	98.0
NAIAD	151.9	238.5	114.5	133.0
PRIMER SELECT	60.4	121.1	45.0	45.0
RESPOND 2	152.3	261.9	146.8	142.6
SURFSIDE 37	109.2	203.9	103.7	90.3
TRICURE	63.4	177.5	113.7	97.1
LSD <sup>c</sup>	47.3	114.2	65.9	82.0
CV <sup>d</sup> (%)	33.8	34.3	39.9	47.0

- 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 RATINGS FOR 2003 IN MONTEBELLO, CA  
FOLLOWING THE APPLICATION OF WETTING AGENTS

DEW FORMATION/CONTROL RATINGS <sup>a</sup>					
NAME	DEW 1 <sup>b</sup>	DEW 2	DEW 3	DEW 4	YEARLY AVE.
AQUEDUCT	9	9	9	7	8.5
BRILLIANCE	9	9	9	7	8.5
CASCADE PLUS	9	9	9	7	8.5
CONTROL	1	9	9	7	6.5
HYDRO-WET	9	9	9	7	8.5
LESCOFLO	9	9	9	7	8.5
NAIAD	9	9	9	7	8.5
PRIMER SELECT	9	9	9	7	8.5
RESPOND 2	9	9	9	7	8.5
SURFSIDE 37	9	9	9	7	8.5
TRICURE	9	9	9	7	8.5
LSD <sup>c</sup>	0	0	0	0	0.0
CV <sup>d</sup> (%)	0	0	0	0	0.0

- a) Dew formation/control was visually rated using a scale of 1=heavy dew present and 9=no dew present.
- b) Dew formation/control 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.