

TABLE 1.

TURFGRASS COLOR RATINGS FOR 2004 IN MONTEBELLO, CA
FOLLOWING THE APPLICATION OF WETTING AGENTS.

TURFGRASS COLOR RATINGS ^a									
NAME	1 WEEK ^b	3 WEEKS	5 WEEKS	7 WEEKS	9 WEEKS	11 WEEKS	13 WEEKS	15 WEEKS	YEARLY AVE.
AQUEDUCT	6.3	8.0	5.8	7.0	7.0	7.8	8.0	7	7.1
BRILLIANCE	5.8	7.5	6.0	7.0	6.8	7.8	8.0	7	7.0
CASCADE PLUS	4.3	7.0	6.5	7.3	7.3	8.0	8.0	7	6.9
CONTROL	7.0	8.0	6.0	7.3	5.8	7.0	8.0	7	7.0
HYDRO-WET	6.3	8.0	5.8	6.8	6.8	7.3	8.0	7	7.0
LESCOFLO	5.3	7.5	6.5	7.5	7.0	7.8	8.0	7	7.1
NAIAD	6.5	8.0	6.0	6.8	5.5	6.0	7.8	7	6.7
PRIMER SELECT	6.0	8.0	6.3	6.8	6.3	7.5	8.0	7	7.0
RESPOND 2	6.8	8.0	6.3	7.0	6.5	7.8	7.8	7	7.1
SURFSIDE 37	6.0	8.0	6.3	7.3	7.3	7.8	8.0	7	7.2
TRICURE	5.3	8.0	6.8	6.8	6.5	7.8	8.0	7	7.0
LSD ^c	0.9	0.3	1.7	1.3	1.1	1.1	0.5	0	0.6
CV ^d (%)	10.3	3.0	11.5	7.8	10.1	8.9	2.7	0	3.6

- 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 22, 2004.
- 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 2004 IN MONTEBELLO, CA
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	YEARLY AVE.
AQUEDUCT	7.5	9	7.3	7.8	7.5	7.8	7.0	8	7.7
BRILLIANCE	8.0	9	7.0	7.8	7.5	8.0	6.5	8	7.7
CASCADE PLUS	7.8	9	6.8	7.3	7.8	8.0	6.5	8	7.6
CONTROL	8.0	9	6.3	7.5	6.8	6.8	7.0	8	7.4
HYDRO-WET	8.0	9	6.3	7.5	7.8	8.0	7.8	8	7.8
LESCOFLO	7.8	9	6.3	7.3	7.8	8.0	7.0	8	7.6
NAIAD	7.8	9	6.8	7.8	7.0	6.5	7.0	8	7.5
PRIMER SELECT	6.8	9	6.5	7.5	7.3	7.5	7.3	8	7.5
RESPOND 2	8.0	9	6.5	8.0	7.5	7.8	6.8	8	7.7
SURFSIDE 37	7.5	9	6.8	7.3	6.8	7.8	7.3	8	7.5
TRICURE	7.8	9	6.8	7.3	7.3	8.0	7.3	8	7.7
LSD ^c	1.1	0	2.4	1.1	1.5	0.7	1.1	0	0.5
CV ^d (%)	7.3	0	13.5	6.7	9.4	6.0	7.9	0	3.0

- 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 22, 2004.
- 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 2004 IN MONTEBELLO, CA
 FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

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 4-3	APP 5-3	APP 5-7
AQUEDUCT	7.0	7.5	8.0	8.5	8.3	9.0	9.0	9.0	8.3	7.8	9.0	9
BRILLIANCE	6.3	7.5	7.5	9.0	8.0	9.0	8.8	8.8	9.0	8.3	9.0	9
CASCADE PLUS	5.3	6.0	6.5	9.0	7.0	6.5	7.0	8.0	8.8	8.3	9.0	9
CONTROL	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9
HYDRO-WET	6.3	7.5	7.8	9.0	9.0	9.0	8.8	8.8	8.3	8.3	8.0	9
LESCOFLO	6.8	6.8	7.3	8.5	8.8	8.5	8.3	8.5	8.5	8.0	9.0	9
NAIAD	7.5	7.8	8.0	9.0	9.0	8.8	9.0	9.0	8.5	8.0	8.3	9
PRIMER SELECT	6.5	7.5	8.0	9.0	8.5	9.0	9.0	9.0	8.0	8.3	9.0	9
RESPOND 2	7.0	7.8	8.0	9.0	9.0	9.0	8.8	8.8	8.8	8.3	9.0	9
SURFSIDE 37	6.3	7.0	7.3	9.0	9.0	9.0	9.0	9.0	8.0	8.0	8.0	9
TRICURE	6.8	6.8	7.3	8.5	9.0	9.0	9.0	9.0	8.3	8.0	9.0	9
LSD ^c	0.9	0.8	0.6	1.2	0.6	0.6	0.5	0.4	0.6	1.2	0.2	0
CV ^d (%)	9.4	7.8	5.9	5.8	5.1	5.4	4.2	3.4	4.7	6.9	1.7	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 2004 IN MONTEBELLO, CA
 FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

NAME	PHYTOTOXICITY RATINGS ^a									
	APP 6-1 ^b	APP 6-7	APP 7-1	APP 8-1	APP 8-3	APP 8-7	APP 9-1	APP 9-3	APP 9-7	APP 10-3
AQUEDUCT	7.5	8.0	8.0	7	7.3	8.3	8.8	9	9	9
BRILLIANCE	8.0	8.0	8.0	8	8.0	8.8	8.8	9	9	9
CASCADE PLUS	8.3	7.8	8.0	8	7.5	8.3	8.5	9	9	9
CONTROL	9.0	9.0	9.0	9	9.0	9.0	9.0	9	9	9
HYDRO-WET	8.0	8.0	7.5	7	7.3	8.3	8.8	9	9	9
LESCOFLO	8.3	8.0	7.8	8	7.8	8.8	8.8	9	9	9
NAIAD	8.0	6.8	6.5	8	8.0	8.8	8.8	9	9	9
PRIMER SELECT	6.8	7.3	7.5	7	7.5	8.5	8.8	9	9	9
RESPOND 2	8.0	7.8	7.8	8	7.8	8.8	8.8	9	9	9
SURFSIDE 37	7.5	8.0	7.8	7	6.5	8.0	8.8	9	9	9
TRICURE	7.0	7.8	7.8	7	6.5	8.0	8.8	9	9	9
LSD ^c	1.4	0.6	0.6	0	0.6	0.6	0.5	0	0	0
CV ^d (%)	10.3	5.3	5.8	0	6.1	4.7	2.4	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. PHYTOTOXICITY RATINGS FOR 2004 IN MONTEBELLO, CA
 (CONTINUED) FOLLOWING THE APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

PHYTOTOXICITY RATINGS ^a				
NAME	APP 11-1 ^b	APP 12-3	APP 13-7	APP 14-1
AQUEDUCT	9	9	9	9
BRILLIANCE	9	9	9	9
CASCADE PLUS	9	9	9	9
CONTROL	9	9	9	9
HYDRO-WET	9	9	9	9
LESCOFLO	9	9	9	9
NAIAD	9	9	9	9
PRIMER SELECT	9	9	9	9
RESPOND 2	9	9	9	9
SURFSIDE 37	9	9	9	9
TRICURE	9	9	9	9
LSD ^c	0	0	0	0
CV ^d (%)	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 2004 IN MONTEBELLO, CA
TWO WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

WATER DROPLET PENETRATION MEASURED IN SECONDS^a

NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	80.8	284.8	291.5	122.3
BRILLIANCE	56.0	224.3	300.0	115.0
CASCADE PLUS	26.3	181.0	158.3	126.5
CONTROL	145.8	391.5	430.0	144.3
HYDRO-WET	79.8	364.8	370.0	126.8
LESCOFLO	55.5	195.8	346.8	166.0
NAIAD	100.0	406.8	286.8	153.3
PRIMER SELECT	158.5	374.8	361.8	159.0
RESPOND 2	158.3	356.5	356.8	121.5
SURFSIDE 37	96.8	480.0	400.0	141.0
TRICURE	90.0	356.5	355.0	145.0
LSD ^c	73.2	172.0	173.1	137.2
CV ^d (%)	48.9	32.5	29.2	36.9

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 5. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2004 IN MONTEBELLO, CA
FOUR WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

WATER DROPLET PENETRATION MEASURED IN SECONDS ^a				
NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	66.5	216.5	223.3	91.0
BRILLIANCE	64.3	174.5	185.3	121.8
CASCADE PLUS	53.3	147.5	160.0	92.5
CONTROL	250.0	471.8	345.0	280.0
HYDRO-WET	27.5	495.0	273.3	135.0
LESCOFLO	36.0	193.5	300.0	96.5
NAIAD	167.5	470.0	228.3	125.0
PRIMER SELECT	95.0	221.5	160.0	115.8
RESPOND 2	239.8	525.0	381.5	170.0
SURFSIDE 37	128.3	438.5	276.5	123.0
TRICURE	95.8	470.0	232.5	181.0
LSD ^c	159.8	142.7	250.8	140.5
CV ^d (%)	85.1	29.8	48.0	55.0

- 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 6. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2004 IN MONTEBELLO, CA
EIGHT WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

WATER DROPLET PENETRATION MEASURED IN SECONDS^a

NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	133.5	178.3	255.0	151.5
BRILLIANCE	206.8	468.3	430.0	170.8
CASCADE PLUS	138.0	413.3	396.8	171.0
CONTROL	363.3	585.0	461.8	186.0
HYDRO-WET	95.8	239.0	430.0	216.8
LESCOFLO	141.0	300.0	308.3	141.8
NAIAD	236.8	458.3	463.5	135.0
PRIMER SELECT	258.3	431.8	396.8	145.0
RESPOND 2	273.5	520.0	330.0	221.8
SURFSIDE 37	180.0	480.0	391.8	190.0
TRICURE	135.0	335.0	461.8	231.8
LSD ^c	143.5	249.4	431.0	251.9
CV ^d (%)	45.5	37.2	43.3	53.5

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 7. WATER DROPLET PENETRATION TIMES BY DEPTH FOR 2004 IN MONTEBELLO, CA
 12 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

WATER DROPLET PENETRATION MEASURED IN SECONDS^a

NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	96.5	155.0	256.8	165.0
BRILLIANCE	308.3	360.0	450.0	142.5
CASCADE PLUS	200.0	248.3	191.8	100.0
CONTROL	208.5	485.0	461.8	174.3
HYDRO-WET	45.8	157.5	370.0	153.5
LESCOFLO	203.5	331.8	340.0	171.8
NAIAD	241.5	405.0	421.5	236.8
PRIMER SELECT	135.0	378.3	425.0	175.0
RESPOND 2	223.3	540.0	311.8	103.3
SURFSIDE 37	193.3	313.5	391.8	173.5
TRICURE	110.0	188.5	413.3	236.8
LSD ^c	108.5	177.3	263.4	164.0
CV ^d (%)	40.4	36.9	36.2	46.1

- 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 2004 IN MONTEBELLO, CA
 16 WEEKS AFTER THE INITIAL APPLICATION OF WETTING AGENTS.
 THE INITIAL APPLICATION OF WETTING AGENTS WAS MADE ON JULY 22, 2004.

WATER DROPLET PENETRATION MEASURED IN SECONDS^a

NAME	0.5 CM ^b	1.5 CM	2.5 CM	3.5 CM
AQUEDUCT	180.0	358.3	430.0	380.0
BRILLIANCE	160.0	416.8	510.0	485.0
CASCADE PLUS	276.8	585.0	545.0	380.0
CONTROL	386.8	560.0	570.0	321.8
HYDRO-WET	205.0	486.8	446.8	281.8
LESCOFLO	363.3	595.0	525.0	331.8
NAIAD	320.0	550.0	590.0	385.0
PRIMER SELECT	231.5	450.0	440.0	206.5
RESPOND 2	430.0	595.0	530.0	318.3
SURFSIDE 37	245.0	505.0	475.0	370.0
TRICURE	170.0	410.0	485.0	240.0
LSD ^c	184.6	266.6	277.0	299.9
CV ^d (%)	41.2	26.5	22.9	41.1

- 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 2004 IN MONTEBELLO, CA 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
AQUEDUCT	111.5	238.6	291.3	182.0
BRILLIANCE	159.1	328.8	375.1	207.0
CASCADE PLUS	138.9	315.0	290.4	174.0
CONTROL	270.9	498.7	453.7	221.3
HYDRO-WET	90.8	348.6	378.0	182.8
LESCOFLO	159.9	323.2	364.0	181.6
NAIAD	213.2	458.0	398.0	207.0
PRIMER SELECT	175.7	371.3	356.7	160.3
RESPOND 2	265.0	507.3	382.0	187.0
SURFSIDE 37	168.7	443.4	387.0	199.5
TRICURE	120.2	352.0	389.5	206.9
LSD ^c	53.1	69.2	88.1	88.2
CV ^d (%)	22.7	13.4	14.5	19.5

- 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 10. DEW FORMATION/CONTROL RATINGS FOR 2004 IN MONTEBELLO, CA
FOLLOWING THE APPLICATION OF WETTING AGENTS

DEW FORMATION/CONTROL RATINGS ^a				
NAME	DEW 1 ^b	DEW 2	DEW 3	YEARLY AVE.
AQUEDUCT	9	9.0	9.0	9.0
BRILLIANCE	9	8.0	5.8	7.6
CASCADE PLUS	9	8.0	5.0	7.3
CONTROL	1	1.0	1.0	1.0
HYDRO-WET	9	9.0	9.0	9.0
LESCOFLO	9	7.0	9.0	8.3
NAIAD	9	7.5	5.8	7.4
PRIMER SELECT	9	9.0	9.0	9.0
RESPOND 2	9	7.0	6.8	7.6
SURFSIDE 37	9	9.0	9.0	9.0
TRICURE	9	9.0	9.0	9.0
LSD ^c	0	0.2	0.3	0.1
CV ^d (%)	0	2.3	3.3	1.4

- 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.