

Chemical Application Guide

Originated by Robert Williams and Developed by the Practical Turf Research Committee of The Midwest Association of Golf Course Superintendents

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TREATMENT FOR	DISTINGUISHING CHARACTERISTICS	MATERIALS	RATE		METHOD OF APPLICATION	WATER			LOCAL DATA	REMARKS
			1000 Sq. Ft.	5000 SQ. FT. GREEN		SOLUTION 5000 SQ. FT.	WASH IN	TIME OF APPLICATION		
Dollar Spot	Straw colored circular spots 1/2" to 1 1/2" in diameter Affects bent grasses	Creg or Du Pont 531 Puriflor 177 Pifiers Calo-Chlor Special Semesan Terzan	3 oz. 1 1/2 oz. to 3 oz. 1/2 oz. to 3 oz. 3 oz. 3 oz. to 6 oz.	1 lb. 1/2 lb. 2 1/2 oz. to 1 lb. 2 1/2 oz. to 1 lb. 1 lb. to 2 lbs.	Dry Mix of Spray " " " " " " " " " " " "	25 to 50 gals. 25 to 50 gals. 50 to 100 gals. 75 to 100 gals. 25 to 50 gals.	None None Light Light None	Every 2 weeks during growing season "	Can use safely anytime during the year Can use safely anytime during the year Use with caution during hot weather Use with caution during hot weather Use with caution during hot weather Safe anytime, do not water for 24 hrs.	
Large Brown Patch	Brownish colored circular areas from 6" to several feet in diameter, dark ring around perimeter. Affects bent grasses.	Special Semesan Calo-Chlor Pifiers Terzan	3 oz. 1/2 oz. to 3 oz. 1/2 oz. to 3 oz. 3 oz. to 6 oz.	1 lb. 2 1/2 oz. to 1 lb. 2 1/2 oz. to 1 lb. 1 lb. to 2 lbs.	" " " " " " " " " " " "	75 to 100 gals. 50 to 100 gals. 50 to 100 gals. 25 to 50 gals.	None Light Light None	Weekly during hot humid weather, and/or at time of attack.	Use with caution in hot weather Use with caution in hot weather Use with caution in hot weather Safe anytime, do not water for 24 hrs.	
Snow Mold	Straw colored circular areas 6" to several feet in diam.	Terzan Calo-Chlor	1/2 lb. to 1 lb. 3 oz. to 5 oz.	2 1/2 lbs. to 5 lbs. 1 lb. to 1 1/2 lbs.	" " " " " "	25 to 50 gals. 50 to 75 gals.	None None	About December 1st. " " "	Additional treatment may be applied in early spring Additional treatment may be applied in early spring	
Culmworm Webworm	Culmworm eat grass leaf Webworm eats on roots	Arsenate of Lead Chlordane (Actual Toxicant) D.D.T. (Actual Toxicant)	1 1/2 to 2 lbs. " " " " " "	1 lb. to 2 lbs. 2 oz. to 8 oz. 4 oz. to 8 oz.	Spray Spray Spray	25 to 50 gals. 25 to 50 gals. 25 to 50 gals.	None Yes Yes	As needed " " " "		
Earthworm		Arsenate of Lead	5 lbs.	25 lbs.	Dry			Yes, well	Spring and/or fall	Not to be confused with Stinkworm
Ant		Chlordane (Actual Toxicant)		8 oz. to 1 lb.	Spray	25 to 50 gals.		Heavy	As needed	
Flies and Mosquitoes		D.D.T. and Lysol			Spray	100 gals.				Use 3 lbs. actual D.D.T. and 4 oz. Lysol. Will defoliate private hedge
Grubworm		D.D.T. (Actual Toxicant) Chlordane (Actual Toxicant) Arsenate of Lead	1/2 lb. 1/4 lb. 5 lbs.		Wet or Dry Wet or Dry Dry	Any None		Heavy		Do not use on greens in hot weather
Broadleaf Weeds (Dandelion, Plantain, Mustard, Sorrel, etc.)		2,4-D (Actual Acid) Sodium Arsenite	1 lb. per ACRE 1 oz. to 4 oz.		Wet or Dry Spray	40 to 100 gals. 100 gals.	None None		During growing season As desired	Treat bent in Spring only, with caution. Do not seed for 4 weeks after application Severe discoloration of turf
Crab Grass		Arsenate of Lead TAT Select Sodium Arsenite PMAS Purafur (Liquid) Arsenic Acid	5 lbs. " " " 1 oz. to 2 oz. " " " " " " 3/8 gal. per ACRE	25 lbs. " " " " " " " " " " " " 8 oz.	Dry " " " Spray " " " Spray Spray	None None 100 gals. None 25 to 50 gals. 100 gals.	None None None None	Late May, June 15th and early July " " " Best results in the seedling stage " " " Seedling stage Spring and early Summer	Taken from practical reports Check manufacturers data Repeated applications. Do not use on greens. Check manufacturers date Use weekly until under control Do not use on greens	
Incompatible Mixtures		Auragreen and Special Semesan Auragreen and Creg 531 Line and Fertilizer								Generally speaking, chemicals should not be mixed

THIS CHART IS COMPILED FOR THE BENEFIT OF OUR MEMBERS AND IS THE RESULT OF PRACTICAL RESEARCH EXPERIENCE BY SUPERINTENDENTS OF THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS. THE MATERIALS AND RATES ARE NOT TO BE CONSTRUED AS A RECOMMENDATION BY THIS ASSOCIATION OR ITS COMMITTEES FOR ANY GIVEN PROBLEM. IT IS HOPED THAT ALL APPLICATIONS ACCOMPLISHED THROUGH THE INFORMATION OF THIS CHART WILL BE PERFORMED IN A SENSIBLE AND FLEXIBLE MANNER. ALL RATES INDICATED SHOULD BE DOUBLE CHECKED FOR USE UNDER INDIVIDUAL LOCAL CONDITIONS.

The above guide, first of several charts to be prepared by Practical Turf Research Committee of Midwest Assn. of Golf Course Supts., will be available for first time at NGA National Conference and Show, Boston, Mass., Feb. 6-10. The 20" x 30" chart printed on durable paper for hanging on wall or placing under glass top of desk for ready reference was prepared

primarily for members of Midwest group. It can be obtained by any greenkeeper at small cost through secretary of his local turf assn. Direct mail orders cannot be accepted. Quantity orders by assn. sec'ys. should be addressed to Donald Strand, Greenkeeper, Westmoreland CC, 2601 Glenview Road, Wilmette, Ill.