



Fungicide Rate Card + FRAC Rotation

4 products, 4 FRAC groups, exact rates for Long Island Zone 7B

USDA ZONE 7B

Liquid Application (2 gal/1K)

The 4-Group FRAC Rotation (Apply in This Order)



Never apply the same FRAC group more than twice consecutively. Rotate to a different group every application. This prevents resistance buildup.

Complete 6-App Preventive Schedule (Long Island Zone 7B)

APP	TIMING	FRAC	PRODUCT	RATE PER 1K	YOU'RE PREVENTING
1	Late May (GDD50 ~500)	11	Azoxy 2SC	0.38 fl oz	Dollar spot onset, summer patch
2	Mid-June (~3 wks)	3	Propi 14.3	1.0 fl oz	Brown patch (nights above 60°F)
3	Early July (~3 wks)	1	Clearys 3336F	2.0 fl oz	Peak disease pressure building
4	Late July (~3 wks)	M5	Daconil	3.0 fl oz	Peak brown patch + humidity
5?	Mid-Aug (if needed)	11	Azoxy 2SC	0.38 fl oz	Only if disease persists
6?	Early Sep (if needed)	3	Propi 14.3	1.0 fl oz	Only if disease persists

Apps 1 through 4 are the core. Apps 5 and 6 are conditional. All rates in 2 gallons of water per 1,000 sq ft. Apply with battery backpack sprayer (fan tip nozzle). If lawn is clean by mid-August, stop.

Preventive Application Rates

PRODUCT	FRAC	CONCENTRATION	RATE PER 1K	INTERVAL	ANNUAL MAX
Azoxy 2SC	11	22.9%	0.38 fl oz	Every 28 days	7.1 fl oz/1K/yr
Propiconazole 14.3	3	14.3%	1.0 fl oz	Every 28 days	16 fl oz/1K/yr
Clearys 3336F	1	41.25%	2.0 fl oz	Every 14-28 days	Per label
Daconil Concentrate	M5	29.6%	3.0 fl oz	Every 14-28 days	Per label

Liquid over granular, always. Foliar diseases live on the leaf blade. Liquid spray coats every blade evenly. Granular sits as a pellet and dissolves inconsistently. For fungicide, this isn't a preference, it's the difference between a program that works and one that doesn't.

4 FRAC

GROUPS IN ROTATION

3 weeks

BETWEEN APPS

2 gal/1K

WATER VOLUME

Late May

START (GDD50 500)

Fan Tip

NOZZLE TYPE

When disease is already active, here's what to spray and how much

Curative Application Rates (Disease Already Active)

PRODUCT	FRAC	RATE PER 1K	INTERVAL	KEY NOTES
Azoxy 2SC	11	0.77 fl oz	Every 14 days	Max 2 consecutive apps before rotating to different FRAC
Propiconazole 14.3	3	2.0 fl oz	Every 14 days	Tank mix with Daconil for severe brown patch
Clearys 3336F	1	4.0 fl oz	Every 14 days	Monitor for resistance on dollar spot
Daconil Concentrate	M5	5.0 fl oz	Every 7-14 days	Contact only. Apply on dry days. Zero resistance risk.

Curative stops the spread. It does not bring back dead grass. Killed tissue needs to regrow from crowns or be overseeded in September.

Which Product for Which Disease

DISEASE	PRIMARY PRODUCT	RATE	INTERVAL	KEY NOTES
Brown Patch	Propi 14.3 3	2.0 fl oz	14 days	Let spray dry before irrigating. Tank mix Daconil for severe.
Dollar Spot	Propi 14.3 3	2.0 fl oz	14 days	NOT azoxystrobin (poor on DS). Bump nitrogen slightly.
Red Thread	Propi 14.3 3	1.0 fl oz	14 days	Try nitrogen first. Usually resolves without fungicide.
Summer Patch	Azoxy 2SC 11	0.77 fl oz	14 days	Water in (soil-borne). Start preventive in April if history.
Leaf Spot	3336F 1	4.0 fl oz	14 days	Reduce N. Raise mowing height. Improve air circulation.
Pythium	Standard fungicides don't work. Needs mefenoxam (FRAC 4) or propamocarb (FRAC 28). Pro territory.			

fl oz to mL Conversion

0.38 fl oz	11.2 mL
0.77 fl oz	22.8 mL
1.0 fl oz	29.6 mL
2.0 fl oz	59.1 mL
3.0 fl oz	88.7 mL
4.0 fl oz	118.3 mL
5.0 fl oz	147.9 mL

Use graduated cylinders or syringes for precision. Measure in mL when working with fractional ounces.

Application Rules

Water volume	2 gal per 1K
Sprayer type	Battery backpack
Nozzle	Fan tip
No hose-end sprayers	Not precise enough
Apply after mowing	Or let dry before mow
Foliar diseases	Let dry before watering
Soil-borne diseases	Water in after applying

Contact fungicides (FRAC M5) need a dry 24-hr window after application. Systemic fungicides (FRAC 11, 3, 1) absorb within hours.

Daconil (chlorothalonil) may not ship to Long Island through some online retailers. This is a carrier/retailer restriction, not a state law. Check local SiteOne Landscape Supply locations or substitute Eagle 20EW (myclobutanil, FRAC 3) in the M5 slot. Myclobutanil is FRAC 3, so treat it as a FRAC 3 app in your rotation.

This is the rate card. Your lawn needs real-time risk data.

FungusDefender Pro uses live weather data to calculate your current disease risk for brown patch, dollar spot, Pythium, and more. It tells you whether to spray today or wait.

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