Long Island Sustainable Winegrowing Disease Control Program ©

LISW's Disease Control Program is based on a combination of physical practices such as leaf removal and hedging that reduce disease pressure and the astute use of protective fungicides selected primarily from groups including EPA Reduced Risk fungicides, EPA Bio-pesticides, National Organic Standard's Board Organic fungicides, and "Low-Impact" "conventional fungicides such as sulfur, stylet oil, phosphorous acid, potassium bicarbonate, etc. Standard, conventional fungicides are allowed, as long as they are selected from the allowed list and number <50% of individual materials used during growing season.

Each pesticide applied is an application, regardless of rate.

Material Categories

NOT ALLOWED

Use in Agriculture/Horticulture has led to Groundwater Concerns

Active Ingredient	Trade Name	
Azoxystrobin Azoxystrobin + Difenoconazole	Abound Quadris Top	
Restricted Use Fungicides (RUP)		
Active Ingredient	Trade Name	
Triflumizole	Procure	
Mancozeb + zoxamide	Gavel	

ALLOWED: LISW LOW-IMPACT

Reduced Risk Fungicides (EPA designated)

BoscalidEnduraCyazofamidRanmanCyprodinilVangardFankausmidFlauste
Cyprodinil Vangard
Four house wild Floureto
Fenhexamid Elevate
Mandipropamid Revus
Pyrimethanil Scala
Quinoxyfen Quintec
Trifloxystrobin Flint
Pyriofenone Prolivo

Bio-pesticides (EPA designated)

Active Ingredient	Trade Name
Aureobasdium pullulans	Botector
Bacillus amyloliquefaciens	Double Nickel
Bacillus pumulis	Sonata
Bacillus subtilis	Serenade
Reynoutria sachalinensis	Regalia
Streptomyces lydicus	Actinovate
Organic Fungicides (NOSB allowed)	
Active Ingredient	Trade Name
Bacillus mycoides	Lifegard
Cytokinin	Stimplex crop bio-stimulant
Hydrogen Dioxide (Peroxide)	Oxidate
Organic formulation of Copper	Champ WG, NuCop50WP, Badge X2
Organic formulation of Paraffinic Oil	JMS Stylet Oil, Pure Spray Green
Organic formulation of Sulfur	Microthiol Disperss
Potassium Bicarbonate	Kaligreen
Rhamnolipid biosurfactant	Zonix

LISW Material Review Committee Low-Impact

Active Ingredient	Trade Name
BLAD	Fracture
Copper sulfate, hydroxide	Several names, Kocide
Laminarin	Vacciplant
Metrafenone	Vivando
Phosphorous Acid	Several names
Polyoxin D zinc salt	Ph-D
Potassium Bicarbonate	Armicarb
Potassium Hydrogen Phosphate	Nutrol
Sulfur	Several names

Combination Fungicides

Combination fungicides such as the four (4) below contain both an EPA Reduced-Risk Fungicide and a Conventional Fungicide. The Reduced-Risk component of the combination product formulation is counted as a separate "Low-Impact" fungicide application, while the Conventional component is counted as a separate Conventional application. This separation will allow a more rational scoring as delineated below. Fungicide in green is the Low-Impact material.

Active Ingredient	Trade Name
Difenoconazole + Cyprodinil	Inspire Super
Mandipropamid + Difenoconazole	Revus Top
Pyraclostrobin + Boscalid	Pristine
Tebuconazole + Trifloxystrobin	Adament
Benzovindiflupyr + Difenoconazole	Aprovia Top
Mancozeb + Copper hydroxide	Mankocide

ALLOWED: CONVENTIONAL

Conventional Fungicides

Active Ingredient	Trade Name
Captan	Captan
Cyflufenamid	Torino
Cymoxanil, Famoxadone	Tanos
Dimethomorph	Forum

Ferbam	Granuflo
Iprodione	Rovral
Mancozeb	All formulations allowed, including RUP products
Metalaxyl/Mefnoxam	Ridomil, Ridomil Gold (Restricted to one application/season regardless of product)
Myclobutanil	Rally
Tetraconazole	Mettle
Tebuconazole	Orius, Tebuzol
Thiophanate-methyl	Topsin-M
Ziram	Ziram
Benzovindiflupyr	Aprovia Top

LISW Fungicide Scoring System

The Core Criteria states that a score of "1" is necessary for page 94 of the Workbook. A score of "1" is achieved when >50% of individual materials used for control of fungal diseases are "Low-Impact", ie—either EPA Reduced Risk, EPA Minimum Risk, EPA Bio-pesticide, are either OMRI-listed Organic or Washington State Department of Agriculture-listed Organic, or are considered as "Low-Impact" materials after careful evaluation by the LISW Material Review Committee.

How is this scored?

Step 1: at the end of the season, the total number of applications of all fungicides is reviewed. **Combination materials such as Pristine are considered as two separate fungicide applications.**

Step 2: the total number of applications of Reduced Risk, Minimum Risk, Bio-pesticide, Organic and Conventional "Low-Impact" fungicidal materials is tallied.

Step 3: divide the total number of "Low-Impact" fungicidal materials (as listed in Step 2) used by the total number of all fungicidal materials used. Multiply by 100. This gives you the percentage "Low-Impact" materials used. sprayed fungicidal materials on their vineyard 11 times during a season. Each separate application contained 3 separate fungicidal materials.

EXAMPLE

11 X 3 = 33 fungicides used If 25 out of the 33 were "Low-Impact" materials 25/33 X 100 = 75% "Low-Impact" materials used for fungus control during growing