

TABLE S3: PESTICIDES CONTROL SCHEDULE FOR VINES GROWN IN THE SERRA GAÚCHA REGION, STATE OF RIO GRANDE DO SUL, BRAZIL

<i>Vitis viniferam</i> (WINE GRAPES)	PRODUCT DESCRIPTION	DOSE (100 L)	INDICATION
COTTON GEM 			Anthracnose and Escoriosis
	Delan (Ditianona)	125 g	
	Dithane (Mancozebe)	300 g	
GREEN TIP 			Anthracnose and Escoriosis
	Delan (Ditianona)	125 g	
	Dithane (Mancozebe)	300 g	
LEAF EMISSION 			Anthracnose, Escoriosis and Downy Mildew
	Delan (Ditianona)	125 g	
	Dithane (Mancozebe)	500 g	
	+		
	Terra Sorb (Amino acid)	250 mL	Cold
2 TO 3 LEAVES 			Anthracnose, Escoriosis and Downy Mildew
	Curzate (Cimoxanil; Mancozebe)	500 g	
	Bravonil Top (Clorotalonil; Difenconazol)	150 mL	
	+		
	Terra Sorb (Amino acid)	250 mL	
			Cold
VISIBLE BUNCHES 			Anthracnose, Escoriosis and Downy Mildew
	Dithane (Mancozebe)	500 g	
	Zetanil (Cimoxanil; Clorotalonil)	200 g	
	+		
	Biozyme (Foliar mineral fertilizer, N, K, B, Fe, Mn, S, Zn)	200 mL	
			Cold
SEPARATED BUNCHES 			Anthracnose, Escoriosis and Downy Mildew
	Antracol (Propinebe)	500 g	
	Banzai (Dimetomorfe)	100 mL	

	PRE FLOWERING			
				Flower Setting
	BEGINNING OF FLOWERING			Anthracnose, Escoriosis, Downy Mildew and Botrytis
		Captan (Captana)	2,5 L	
		Ridomil WG (Mancozebe; Metalaxyl-M)	3 kg	
		Biotrac (Foliar mineral fertilizer, N 1%, B 1%, and Zn 1%)	1 L/ha	Flower Setting
	FULL FLOWERING			Anthracnose, Downy Mildew and Glomerella
		Antracol (Propinebe)	3 kg	
		Orondis (Azoxistrobina; Oxatiapirolina)	700 mL	
		Orkestra (Piraclostrobina; Fluxapirroxade)	500 mL	Flower Setting
	END OF FLOWERING			Anthracnose, Downy Mildew and Botrytis
		Captan (Captana)	2,5 L	
		Ridomil WG (Mancozebe; Metalaxyl-M)	3 kg	
		Azimut (Azoxistrobina; Tebuconazole)	1 L	Thrips, moths and aphids
	PEA BERRY			Anthracnose, Downy Mildew and Glomerella
		Bravonil Ultrex (Clorotalonil)	1,5 kg	
		Orondis (Azoxistrobina; Oxatiapirolina)	700 mL	
				With Downy Mildew
	BEFORE BUNCH COMPACTION			Anthracnose, Downy Mildew and Powdery Mildew
		Curzate (Cimoxanil; Mancozebe)	3 kg	
		Recop (Copper oxychloride)	2,5 kg	
		Kumulus (Sulfur)	1,5 kg	With Downy Mildew
				Anthracnose, Downy Mildew and Powdery Mildew
		Curzate (Cimoxanil; Mancozebe)	3 kg	
		Recop (Copper oxychloride)	2,5 kg	
		Kumulus (Sulfur)	1,5 kg	

			
BUNCH COMPACTION			
	Sulfato de Cobre (Copper Sulfate)	1 kg	Downy Mildew, Powdery Mildew and Rot
	Cal (calcium oxide)	1,5 kg	
	Kumulus (Sulfur)	100g/100L	
BEGINNING OF MATURATION			
	Dithane (Mancozebe)	3 kg	Downy Mildew, Powdery Mildew and Rot
	Orkestra (Piraclostrobina; Fluxapiroxade) 14 days	500 mL	
	Talstar (Bifentrina)	500 mL	
			Magnesium source
MATURATION 50%			
	Dithane (Mancozebe)	3 kg	Downy Mildew, Powdery Mildew and Rot
	Azimut (Azoxistrobina; Tebuconazole)	1L	
MATURATION 60%			
	Dithane (Mancozebe)	2,5 kg	Downy Mildew, Powdery Mildew and Rot
	Domark (Tetraconazol)	1 L	
	+		
	Eleitto (Acetamiprido; Etofenproxi)	500mL/ha	
MATURATION 80%			
	Dithane (Mancozebe)	2,5 kg	Downy Mildew, Powdery Mildew and Rot
MATURATION 100%			

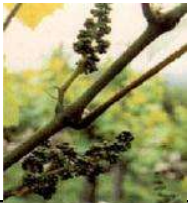
			Downy Mildew, Powdery Mildew and Rot
	Dithane (Mancozebe)	2,5 kg	

14 times	Mancozeb (Dithane)
2 times	Propineb (Antracol)
3 times	Copper Sulfate
2 times	Copper oxychloride
3 to 4 times	Sulfur (Kumulus)

<i>Vitis labrusca</i> (ISABEL and BRS)	PRODUCT DESCRIPTION	DOSE (100 L)	INDICATION
LEAF EMISSION 			Anthracnose, Escoriosis and Downy Mildew
	Bravonil Ultrex (Clorotalonil)	150 g	
	Dithane (Mancozebe)	300 g	
	+		
	Terra Sorb (Amino acid)	250 mL	Cold
2 TO 3 LEAVES 			Anthracnose, Escoriosis and Downy Mildew
	Bravonil Ultrex (Clorotalonil)	150 g	
	Dithane (Mancozebe)	300 g	
	+		
	Terra Sorb (Amino acid)	250 mL	Cold
VISIBLE BUNCHES 			Anthracnose, Escoriosis and Downy Mildew
	Curzate (Cimoxanil; Mancozebe)	500 g	
	Fitofós (Foliar fertilizer)	200 mL	
			Cold
SEPARATED BUNCHES 			Anthracnose, Escoriosis and Downy Mildew
	Dithane (Mancozebe)	500 g	
	Zetanil (Cimoxanil; Clorotalonil)	200 g	
			Flower setting and bunch elongation
PRE FLOWERING 			

	Antracol (Propinebe)	500 g	Anthracnose, Escoriosis, Downy Mildew and Botrytis
	Banzai (Dimetomorfe)	100 mL	
BEGINNING OF FLOWERING			Flower setting and bunch elongation
	Dithane (Mancozebe)	2,5 kg	Anthracnose, Downy Mildew and Glomerella
	Zetanil (Cimoxanil; Clorotalonil)	1,5 kg	
	Azimut (Azoxistrobina; Tebuconazole)	1 L	
	+		
	Fitamin CaB	150 mL	Flower setting and bunch elongation
FULL FLOWERING			Anthracnose, Downy Mildew and Botrytis
	Antracol (Propinebe)	500 g	
	Banzai (Dimetomorfe)	100 mL	
			Moths
END OF FLOWERING			Anthracnose, Downy Mildew and Glomerella
	Ridomil WG (Mancozebe; Metalaxyl-M)	2,5 kg	
	+		
	Talstar (Bifentrina)	500 ml	
BEGGINING OF PEA BERRY			Anthracnose, Downy Mildew and Powdery Mildew
			
	Curzate (Cimoxanil; Mancozebe)	3 kg	
	Recop (Copper oxychloride)	3 kg	
PEA BERRY			Anthracnose, Downy Mildew and Powdery Mildew
			
	Curzate (Cimoxanil; Mancozebe)	3 kg	
	Recop (Copper oxychloride)	3 kg	

			
BUNCH COMPACTION			Downy Mildew, Powdery Mildew and Rot
			
Sulfate	1 kg		
Cal (calcium oxide)	1,2 kg		
BEGINNING OF MATURATION			Downy Mildew, Powdery Mildew and Rot
			
Sulfate	1 kg		
Cal (calcium oxide)	1,2 kg		
MATURATION 75%			Downy Mildew, Powdery Mildew and Rot
	Dithane (Mancozebe)	3 kg	
	Domark (Tetraconazol)	1 L	
	Talstar (Bifentrina)	500 ml	

	Delan (Ditianona)	125 g
	+	
	Terra (Amino acid)	250 mL
VISIBLE BUNCHES 		
	Antracol (Propinebe)	300 g
	Score (Difenoconazol)	8 mL
BUNCHES PRE-FLOWERING 	+	
	Terra-Sorb (Amino acid)	200 mL
BEGINNING OF FLOWERING 	Antracol (Propinebe)	250 g
	Aliette (Fosetil)	250 g
	Unix (Ciprodinil)	100 g
FULL FLOWERING 		
	Zetanil (Cimoxanil; Clorotalonil)	200 g
	Miravis (Pidiflumetofem)	60 mL
FLOWERING 	+	
	Fitamin CaB or Boron 10	150 mL ou 100mL
	Antracol (Propinebe)	250 g
	Aliette (Fosetil)	250 g
	Azimut (Azoxistrobina; Tebuconazole)	100 mL

			
		Zetanil (Cimoxanil; Clorotalonil)	150 g
		Miravis (Pidiflumetofem)	60 mL
		+	
PEA BERRY 			
		Antracol (Propinebe)	250 g
		Azimut (Azoxistrobina; Tebuconazole)	100 mL
BUNCH COMPACTION 		+	
		Talstar (Bifentrina)	50mL
BEGINNING OF MATURATION 			
		Antracol (Propinebe)	300 g
		Kocide (Copper hydroxide)	200 g
MATURATION 75% 		Azimut (Azoxistrobina; Tebuconazole)	100 mL
		Antracol (Propinebe)	300 g
		Eleito (Acetamiprido; Etofenproxi)	500 ml/ha

7 times
1 times

Propinebe
Copper