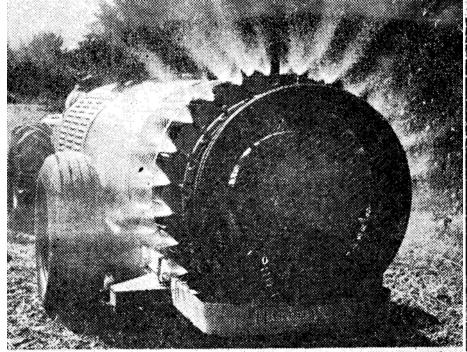
Airblast Sprayer Calibration

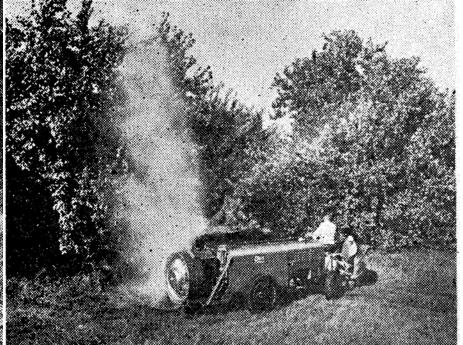
Franz Niederholzer, Farm Advisor Tehama Prune Day February 29, 2008

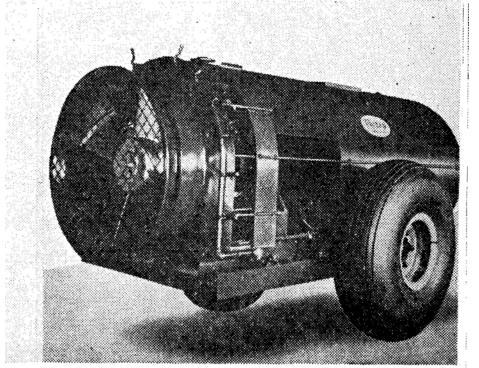


University of California Cooperative Extension

Agriculture & Natural Resources
Central Valley Region







Photos from

Modern Fruit Science, 2nd Ed.

1961

by Norm Childers



Actual sprayer maintenance issues observed in the field (outside of Tehama County).

Sulfur clogged filter.





Broken pressure gauge (Sprayer pump not running.)



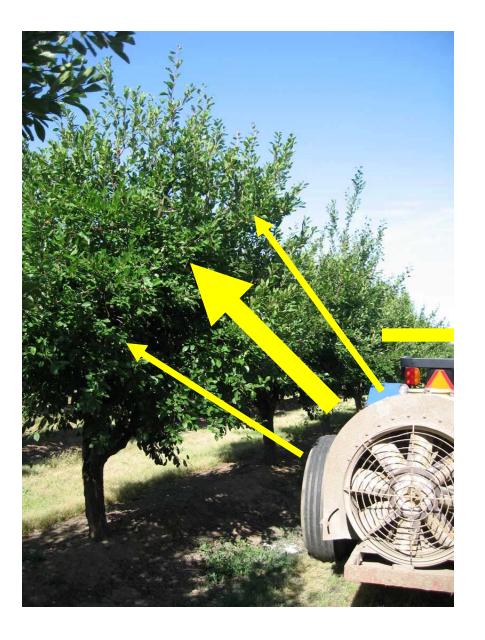
Don't measure with a laser, mark with chalk, and cut with a dull axe.



Effective, responsible pest management requires accurate pesticide delivery.



Calibrate/set up to match the spray delivery to the target orchard.



Deliver the right amount of pesticide per acre.

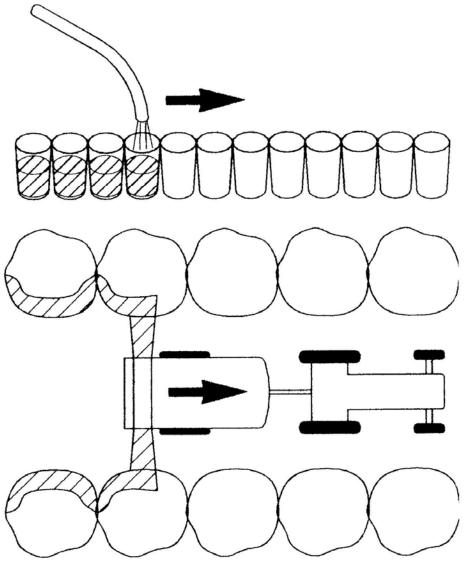


How fast are you going to drive?



Ground speed directly affects air

movement.



Measure tractor speed.



Determine swath width and calculate area sprayed.



Calculate desired spray output in GPM.

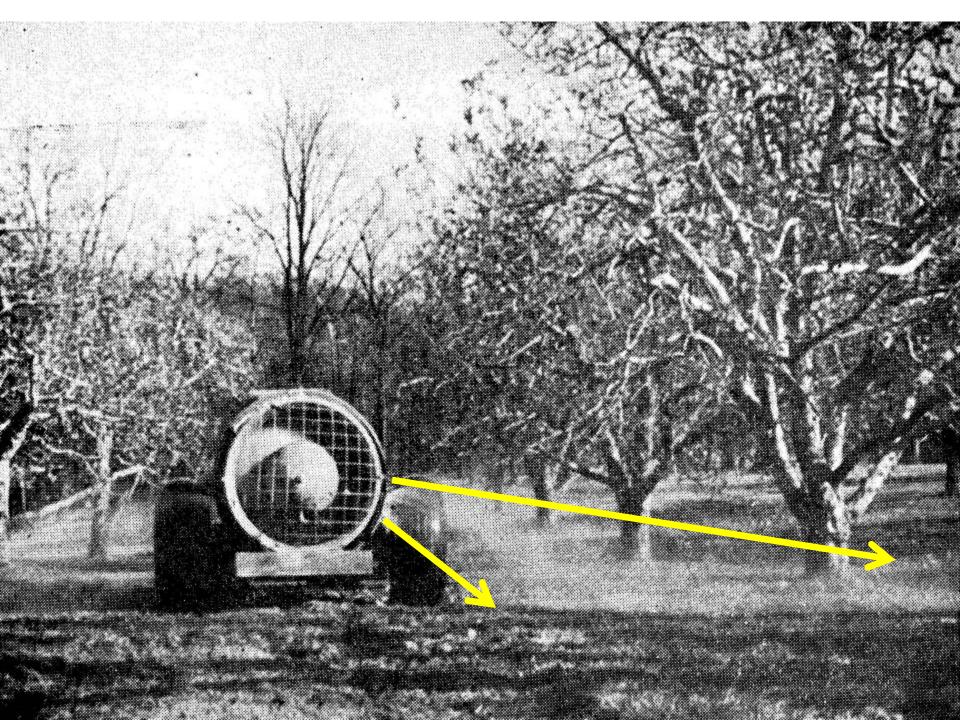
Ground speed: 2 MPH

Row spacing: 18' x 18'

Select desired GPA: 100

Calculate GPM needed to deliver GPA in that orchard.

Example: 3.6 GPM (per side)



Target the tree.



Take the sprayer out to the orchard(s) to be sprayed.



Conelet Disc-Core Type Spray Nozzles

Orifice Discs

Ceramic Sizes Available: DCER-1 through DCER-8, DCER-10.











Ceramic Stree Available: DC13-CER, DC23-CER, DC25-CER, DC31-GER, DC33-GER, DC35-GER, DC46-GER, DC46-GER, DC56-GER













26278-1-NYR Quick TeeJet* Cap For ceramic disc See page 3 for ordering information

01.5

21.6

Hollow Cone Type Spray Tips

036

.047°

063"

000

DH 047"

Typical Assembly with Ceramic Disc and Core

Stated Strainer

"Use CPSSS79 AV cooker when ASSA AV outer student stratum is not count

057 057 075 058 008

.064 .075 .08 .10 .11

064 079 086 183 117

- 028 087 10 18 14

.005 .007 .10

- 0/1 48 49 11 12

How to order:

To order article clisc anty, specify also no., material. Examples:

DCER-2 - Censmit

D2 - Hardened Stainless Steel

DE-2 - Stainless Steel

DVP-2 - Polymar To order core only, specify core no., material. Examples:

DC13-CER - Ceramic

DC13-HSS - Hardened Stainless Steel

DC13-AL - Aluminum DC13 - Brass

DC13-NY - Nylon Color-coding applies to polymer only.



Full Cone Spray Pattern Produced by Cores #31, 33,

Full Cone Type Spray Tips

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D1	9031	BY	-38	11	.13	.55	- 58	.30	23	27	.31	57	400	42	430	10.0	DCZS	941"	-	12	14	16	19	22	- 5	.2%	+3	All
D1.5	1030	EE	(30	34	37	19	.23	26	29	35	:40	48	57	681	13"	01	DCDS	9671	30	14	17	116	-21	28	- 8	-76	0.1	48
00	9031	3417	12	.76	.19	22	.20	30	25	40	-65	.55	820	63"	111	0.4	DCSS	903/	/10	27	25	28	M	49	- 8	28	81	
112	BCST	.8471	33	18	21	24	20	33	37	44	30	50	83"	65"	57	-05	DC25	204, 218.	33	25	38	38 44	40	48 60	-0	100	21	301 118
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-04	SCAI	0631	-20	.28	-34	.35	- 47	. 54	.60	.73	.00	-	190*	56".	di.	TO:	DC49	2047"	-	H	.18	20	25	20	-	30	- 53	-
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01.5	0036	1007	.10	14	.12	.18	.23	-25	-29	-34	.38	46	22"	21,	29"	D4	0040 0040	000	33 23	32	31	45	40	50		All E	23	122
- Bit	DESS	.041*	.14	.10	.24	25	.,50	:34	.32	.45	.51	.00	401	410	400	DS	35.00	- 00F	29	40	50	10	20	33	-0	135		101
	DOS	.047"	.15	-22	26	.38	.36	-81	.45	- 54	.62	.74	48"	50"	150	DI	3530	108	33	40	59	20	34	97		135	77.6	191
- 04	DCIS	3607	32	37	44	.50	.64	.79	.79	.00	11	13.	68"	700	79*		000	.125"	40	59	72	34	1.04	121		1.88		2.40
m	DCDS	.070	34	:48	:38	.05	.00	302	1.0	12	14	17	674	80"	797	.010	9045	199	-56	77	94	1,13	1.35	1.57	3	2.18	0	3.18
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ш	DC56	.308*	7.3	5000	0053	1.52	1450	0.00	175170	17579	0.00	57103		27"	500	107	056	100"	_	36			1.72			1.73		185
DR	DC88	.105"	.90	130	147	130	2.20	2.72	2.25	2.72	4.32	5.20	52"	57"	157	100	004	1257	=	\$			2.25	2004		1:00		5.0E
1713	DC58	1681	136	191	2.34	2.70	3.31	3.82	4.20	5.22	6.00	2:20	621	601	Em.	210	DEM	190"	-	-	2.15	2.45	3.05	3,53	- 6	4.85	9	6.80

STRAINER NOTE: For nozzles using ordice dec nos. 1, 1,5, and 2, or core nos. 31 and 33, slotted shainer no. 4514-20 equivalent to 25 mash sc. in size For all other larger capacity discs and cores, slotted strainer no. 4514-32 equivalent to 16 mesh screen size is required.

Note: Always double check your application rates. See pages 33-34 for useful formulas and information

Select nozzles based on desired GPA, best tractor speed (MPH), and tree spacing.

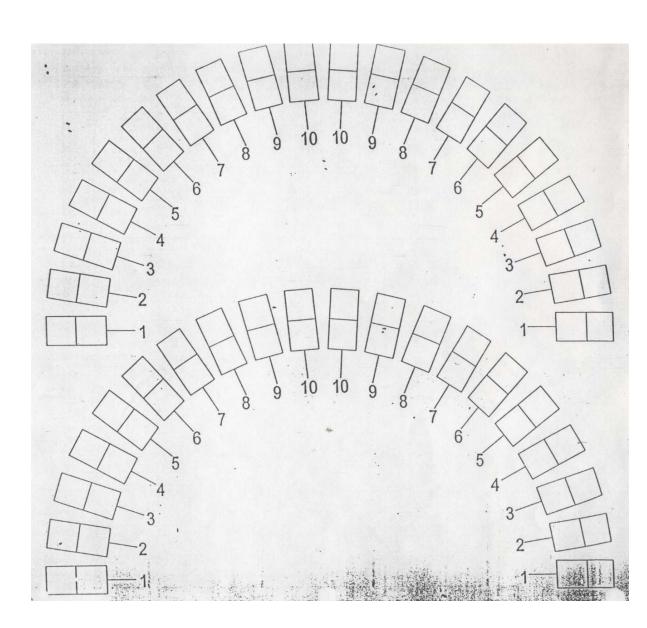
Ground check



Measure how much was sprayed out.



Keep good records.



Check your coverage.





What is the target?







Put something in the tank to ensure good deposition.



NARROW RANGE 415 SPRAY OIL

ACTIVE INGREDIENT:	BY WT.
Petroleum Oil	98.0%
INERT INGREDIENTS	
TOTAL	100.0%
Unsufforated Residue:	
Petroleum Oil Classification: un	classified
EPA Reg. No. 11656-97	EPA Est. No. 11656-CA-02

CAUTION KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION: Harmful if swellowed or absorbed through skin or inhaled Causes moderate eye intistion. Avoid contact with eyes, skin or ideling. Avoid breathing spray mist. Wash thoroughly with scop and water after handling. Farmore contaminated clothing and wash before reuse.

FIRST AID

If SWALLOWED: Call a power control center or sector remediately for treatment advoca-tor not gains any Equal to the periors. Do not include consting unless talk to by a power opietol center or douter. So not your arighting by recell its an encorracious petition.

If the EYES: Held open open and more doubly and partly with switer for 15-20 morello. Pamove contact lenses if propert, after the first 5 minutes, then contribe mixing. Call a policy control center or doctor for heatment advice.

16 ON SKIN: Take of constructability Primal skin introducibly with planty of water

timates. Call a poison control center or doctor for treatment advice. IF INHALED: More person to fresh air. If person is not breating, call 911 or an ambulance then give antical respiration, preferably mouth-to-most if possible. Call a points orbot person or doctor for further tricitment activities

NOTE TO PHYSICIAN: Contains petroleum distillate - xometing may close assista-

In case of possering, contact your Poison Control Center at 1-800-222-1222.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must weer: Cong-slessed that and long pants shoes plus sucks, chemical-resisted gloves (such as barrier laminate, nitrite rubber recogning rubber or vital. Foliax manufacturers matechans for cleaning and maintaining PPE. If no such instructions for vostbables, use detergent and hat water. Keep and worth PPE separately from other bundry

When randlers use closed systems, endosed cabs, or around in a marrier that means the requirements loted in the Worker Protection Standard (WPS) for agricultural fural peolicolog (40 GFH: 170,2400(6/4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

MPORTANT: When reduced PPE is norm because a closed system is being used anders must be provided all PPE specified above for "applicators and other handlors," and have such PPE inmodiately available for use in an emergency such as a spill or equipment brookdown

USER SAFETY RECOMMENDATIONS

-Worth hands thoroughly before eating, drinking, chowing gum, using foliacco o

Pernava clothing enmodrately I posticide geticitistie. Then wash thoroughly and

NET WEIGHT GALLONS

Manufactured for Western Farm Service, Inc. P.O. Bax 1168, Fresno, CA 93715 FIRST CHOICE is a regelered tradement of Woston Farm Service. Inc.

Nutra Phos and Nutra-Spray are registered trademarks.

59-14-09 9321 FINAL WM CA-CR-WA

ENVIRONMENTAL HAZARDS

This product is took to fail. Do not apply tirectly to water or areas where surface upday is present or to interfedal areas below the mean high water main. Do not contaminate water when observing equipment or disposing of equipment waphwaters. Apply product only as specified on the Jabal.

PHYSICAL/CHEMICAL HAZARDS

Do not well host or drill this contener. Herotive may ignife with englower violence if heated sufficiently.

STORAGE & DISPOSAL

Do not confarenate water food or teel by storage or disposed STORAGE: Keep out of reach of palatine and samulat. Keep persone in triginal centamen. Store in a read dry space and award eccess heat. Do not pull paragraphs or disage and bond or drink containers.

PESTICIDE DISPOSAL: Viscles resulting from the use of the product may be disposed of on site, or at an approved marks disposal facility. CONTAINER DISPOSAL: Triple into (or equivalent). Then other his recycling or reconditioning, or puncture and dispose of in a sentiary lendful, or by other procedures approved by State and local authorities.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a mainter insomitation with its labeling. Do not apply the product firmugh any type of irregulars system. Do not apply this product in a way that will contact workers or offer persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency miporuble for pestode regulators.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the votection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural posticides. It contains requirements for training decontamination, notification, and emergency approbance. It also co specific instructions, and exceptions perferring to the statements on this laborational protective equipment (PPE) and restricted-entry interval. The sugarraments in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not writer or allow worker entry into treated areas during the restricted entry interval (HEI) of 4 hours.

PPE required to early entry to treated areas that is permitted under the Worker

Protection Standard and that has been treated, such as plants, soil, or water is, coveralls, shoes plus socks, and chemical-resistant planes (such as barrier laminate, nitrile nubber, neograna rubber at vitant.

CONDITIONS OF SALE

Safer warrants that the predict conforms to its observable exception and is requirely to the purpose stated on the lighed when used in accordance with the sheet one and instru one apported on the label under no male consistons of use its trainer the Astrony for an they appriately of membersability of foreign for a particular purpose express or implice adends to the use of this product, continuy to label instructions, or under abnormal condi-ons, or under conditions not responsibly to estemblish to either, and buyer assumes the next it any such uses.

NOTE: UNLESS SPECIFICALLY INDICATED OTHERWISE, THIS PRODUCT IS TO BE DILUTED WITH WATER BEFORE APPLICATION, DILUTION RATES ARE INDICATED BELOW AND ARE TO BE INTERPRETED AS GALLONS OF FIRST CHOICE NARROW RANGE 415 SPRAY OIL PER 100 GALLONS OF WATER.

GENERAL USE DIRECTIONS

FIRST CHOICE NARROW PANCE 415 SPRAY OIL is a straight out narrow range patroloum oil designed specifically for agricultural use on citrus and other crops including applies, pears, grapes apricols, almonds, avocados, chemies, liver necternes, paedres preternes, plans, pranes, vidrats and omaninetals, APPLICATIONS: PRIST CHOICE NARROW RANGE 415 SPRAYOU is formulated.

as a "fast brook" spray of and will not stay in solution unless agituted constantly Keep agitator running at all times during spitay operations. Apply so as to give total operations to all parts of crop. Total operating of all parts of trees is essential for optimum results. Apply as slewded to the soughly thinch all limbs thigs, and leaves without significant runoff. For smaller immultane trees and sines, spray solution. quantifies should be reduced proportionately.

DILUTION: Be same time is clean. Fill sprayratif with 1.2 the required omested of wider. Start agricult: Additional of agray of, Certificate agricult while adding balance of water and while spraying. DO NOT USE THIS MATERIAL IF IT DOES NOT SMITH START AND ADDITIONAL OF THE START AN

GENERAL USE DIRECTIONS (CONTINUED)

GROUND REPUICATION, Dilute recommended discipling 50-8,000 gallons of water sensions. ACRAIL_APPLIC KINDNI Dilute ERROT CHICLES BARREDGE RANGE 41'S SPEAT CILLuit this recom-mended discipling in 15-50 gallons of addresser alone for thorough consingle circuits with fiscal element Service or agricultural chemical authority for dilution and/or combinations with currently gistered persodes). The lower rates or susceptible variaties or young train. If state of oth

ficting directions rater to the specific orag marketions.

LOMPATIBLETY: PREST CHOICE NARROW RANGE ATSISPRAY Cit. may be task risked with maccicides. Languages or foliar reflexives. To associo the compatibility of tank michaels, the this period propertions of the later michaels in a small companier. After thorough mixing, allow no medual to starial for 5 nervites. If the combination retrains mixed or can be readly remised

the tork markers a caregodale. CHEMICATION: "OO NOT APPLY the product through any lyse of incaston system. LY this product within 50 days before or after opplications of suffer or copton SG SCT APPLY to trees weakness by disease: drought styling winds or high nitrogen applica-

DO NOT USE PIRST CHOICE NARROW RATISE 415 SPRAY OIL WHILL SHOULD AND OR ABOVE. SO P, when making low volume explication or above 96 F which making only it application.

CROP RECOMMENDATIONS

Apply when peets aggress. Adjust drouge with recommended in any excounting to peel infectation, one concept with credit behalf drougs to MARADIE PARKED AT SEPART OIL THOSE TRANSPERS AND AT SEPART OIL THOSE TO RECOME A THOSE OF SEPART OIL THOSE TO RECOME A THOSE OF SEPART OIL THOSE OIL THOSE AND A THOSE AND A THOSE OIL THOSE

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on Nued Orangos after Seglations 1.

CAMANIZE, GRAPESTERLIT, LIERZA AND CHEER CITINUS 1932. 1 Red Stude visible Scale. Public Scale. Stude Coulder Seglation Security Seglation Security Seglation Security Seglation Se ural Extension Service for recommendations on special combinations.

LOW YOLLINE APPLICATIONS: Changes and Coopellust. Done Red Mite. 12 to 15 gallons. APRICOTS, ALMONDS, CHERRIES, NECTARINES, PEACHES, PISTACHOS, PLUMS, Solventicity in biological, in controllers from interference processor in controllers of the processor in th

On pruse from pursions to oil application stoud be made in the period between Rebrux ary to and the paper of tage.

APPLES AND PEARS: Summer application pool hurvers; five titles in 7 gallors free gallers of mater, previously commerciage good rearvest; of Son Application gallors of Application and an arthur case of republic monoficials. Use this paleon this gallors of Application are as an administration of republic monoficials.

Connect and Delived Connect: San Jose Scale Balan Rear Scale 1.5 to 2 calcold 15% suffers

Delayed Dermant: Lest Roller Eggs. 2.5 gallons (100 gallons of water.

Debyed Defends: Locin-Gold Egils: 25 years in the process of season. GENER Spells in against a position of season in the patient of FRETCHOIC EMPROVED FAIST 415 GENERAL SEASON IN A gainst of where the through coverage. A fairly time steing all interfaces in registered to use of gainst and were the through coverage. A fairly time steing all interfaces registered to use of gainst and were the through coverage. A fairly time steining all interfaces 1495 to 107 FEGER FRED FOR IEEE MARKET AND EAST AND TO AND TO BE ADMITTED TO THE SEASON IN A SEASO

consynagime as pundery milition. Stop sprays at burn development, legals with ground EVILIDORIBANT: Latana scola. Discreto: Scola. Sin Losa Boole. Apply 410.6 golfons PRST CHCN/E-NARROUR RANGE 215.6 FRV CE, porthesischens. Apply in sommanz of 150 golfons pray yoldung ger zen. Discreto happly after bout brows. Use the hopfer stud einer Sodie Scholin-

Little SP RESS GUMBSR: Scale creation and Leathcline. Apply 1 galon per 100 gallons of water as a data spherosity. Do not apply damaged population to that personally 110 days after towards in the boto ween in 2011. Do not so upon satisfact.

mon seek mulgi, point les goos sattiese. AVCEA DOS: Nother auf This viet Tis 4 şallons ptollor tod golbrin present in a étilian stoj of 400 to 3,000 gallons per auxe. Good coverage le realization de flaccion. Combinación. 20 gallons atraigner aux explatation. Foi concentrate signal, soc 410 to gallons of object acre. In 2010 tot gallons of Good mulcificar in a riscopi, abort to referende coverage.

AVOCADOS (Continued: little the application of oil is more than 2% via concentration, if is recommended that a small feet abusine healed and observed. Allow enough time for symptoms to

appear Series continuing to SURS.

QUIETE. Protection scale: Use 15 guillant PREST CHOICE NATIONAL AND EATS SPRAY CIT.

per foil guillants of water. Applications or out obtain up to bepared thatps:

MALKUTE, Debyed Demant. Brown Aprilot Soale. Black Sert Jose Soale. Clave Soale. Users.

The control of the co

SHEGE TREES, SHRUBS, ORNAMENTALS, FLOWER AND FOLIAGE PLANTS: Shade Their and Ships industry Conden. Deciding Broadles Exceptions & Rocky Characteristic Admid Adeign. Bun Shalles Bounder Bigs. Excepted Miles Foliage Hoding Controller and Union Assignit into Status Control (2007), 200((6)) this Assignit which growing control on the Status (2005), 200((6)) this Assignit Policy of the Status (2005), 200((6)) this Assignit Policy in and the Status (2005), 200((6)) this Assignit Policy (2005), 200((6)) this Assignition (200

programme and accounts and description of statements for miner fields. The Statement benefits the programme of the statement of the statement of the statement of the statement in the statement of the statemen

Property and Programs of Control (Programs of Control (Programs Adequate Ad

Eriophyst Mies, Foliago Fending Caterphan, Gall Mies, Laco Bug Lisat Books Larvao, Licathop-pers. Lasterine: Beautylag, Physica: immatura: Savally Jamaida: Sociale: -immatura: Savally Jamaida: Sociale: -immatura: Savally Jamaida: Jamaida: Domaid Pestod as invaded. Significant of oil per 100 gallery of water. Stummer Polar of Covers, as needed - 1 to 2 gallery.

on per gasor or water. Di semoves the glaucous tobus-bloom hom such-every were as Colorado Blue Sprure and Kester. Socials. Always one lower stocker or text stray of densitive plants such as Chysternetia. Shake ee. Chartopeogos: Juniper Japanese Holly and Spruce. Tendency loaded sensitivity. Roll Co-

der und Orsaldis Fil.

6.44/1006 Styllyn micros moe ist meis ournighte groeing season, see all zweit minimum spel-cialen nebrud. De rechange afweit bash Nav Paly spelned and shoot delingsfort is occurring. De let doppe eller micros a proviour incorpsic defer in histories or the plant is under shoot. Film fall demand applications reduce risk to 2 pallines of eldoer 100 gallon water. Film fall demand applications are vice in the 2 pallines of eldoer 100 gallon water. Film fall demand applications are vice in Film fall and film fall fall pallines of the plant of the California Cardy, Compagnia formats base fall fall of film filmsgrang from open blackers. Moduling and applications been considered with the good blacker of company of company for

RATES PER ACRE	Gallons of Diute Spray of Recommended Danage	Gallons of G6 Per Acre By Concentrate Sprayer
Ottos Some Fruit & Almondo 6	400 to 3000	9 16 20
Potachos Apples 6 Paans Olives Walnuts Grapes Hope & Walnuts	950 to 9000 350 to 9000 900 to 3000 900 to 3000 50 to 3000 50 to 750 100 to 3000 900 to 3000	415 61 410 61 410 61 110 10 3 110 13 410 6 410 15

11) Application in 50 to 100 gallons of scray minlurs, per acre is preferred to 4 not featured

departing on the spray dup great level (2) For chapping har but the 5 global side to later than 5 leads before his cest of develop-uals a galaxies and later than A wish before hairest or 2 galaxies are studied than 1 devel

Nutritional Powders: FIRST CHOICE NARROW PANAGE 416 BPRAY CIL is companied. with fairly Phops and four a Sprays tisker nut wit powders which may be used at the rate of 1.13 to 3 lbs. par 100 gallons of agree solution.

Note: Being an oil spray, application should NOT be made:

When the soft reporting the size cut in takening dip or when these which these. Exmediately pror to during a tollowing conversability of the shall be service. When the taken place is above 5% degrees it is many the shall be service. When the taken place is above 5% degrees it is many to be manufactured to the service of the service

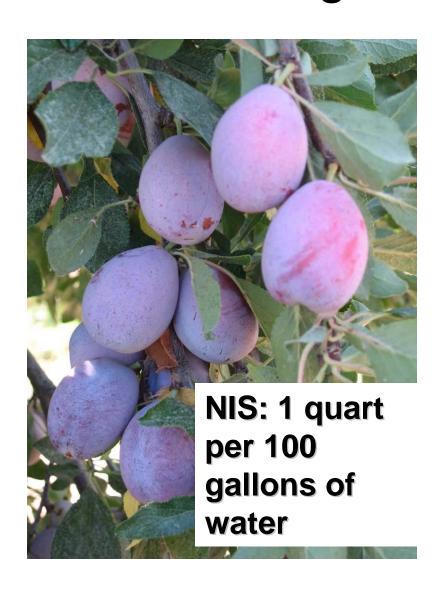
is not apply over trut of apropts, chemics peaches plums promiss explice or pears in

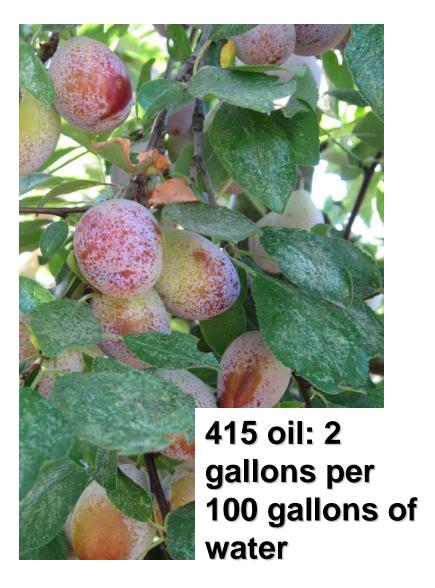
On the apply over that in suproces, creames prescribe putting braines incomes in pages or pages or version of CSP.

Go not apply outgroup products for 30 days before or after of explication on other.

Co not apply abony loss humbly Let Salta Ans, which in Southern Dalforma, at when temporalized exceeds 50 degrees for femoria.

Not all adjuvants do the same job on the same target.





Calibrate the sprayer and target the spray to get the job done right.



Plus



It might be an old axe, but if it is sharp the job will get done.



Thank you

