

36

BEST AVAILABLE COPY

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Figure 1

Crops
Pasture
Rangeland
Wetland

Abstract

Crops
Pasture
Rangeland
Wetland

COTTON IS RUNNING APPLICATIONS

Crop

BS A 17022 FORMULATED PROPOS

1.
 2.
 3.
 4.
 5.
 6.
 7.
 8.
 9.
 10.
 11.
 12.
 13.
 14.
 15.
 16.
 17.
 18.
 19.
 20.
 21.
 22.
 23.
 24.
 25.
 26.
 27.
 28.
 29.
 30.
 31.
 32.
 33.
 34.
 35.
 36.
 37.
 38.
 39.
 40.
 41.
 42.
 43.
 44.
 45.
 46.
 47.
 48.
 49.
 50.
 51.
 52.
 53.
 54.
 55.
 56.
 57.
 58.
 59.
 60.
 61.
 62.
 63.
 64.
 65.
 66.
 67.
 68.
 69.
 70.
 71.
 72.
 73.
 74.
 75.
 76.
 77.
 78.
 79.
 80.
 81.
 82.
 83.
 84.
 85.
 86.
 87.
 88.
 89.
 90.
 91.
 92.
 93.
 94.
 95.
 96.
 97.
 98.
 99.
 100.

NOTE: For the Blacklands of Texas use only the 10 lb active ORTHENE 75S rate (27.2 lb formulated product per acre) ORTHENE 75S is not used with fungicides that are labeled as fungicides for disease control.

BEST AVAILABLE COPY

FIELD GROUP

Plants

1. *What are the main components of the system?*

250

Results

Page 1

470

| Crops | Insects | Application
DATE AND PS
Per Acre | Further Use
Restrictions | Days to
Max Treat |
|----------------------------------|---|---|--|----------------------|
| Pasture
Rangeand
Wasteland | Grasshoppers
Mormon
Crickets
Black Grass
Bugs | 1 to 1 1/2 lb
0.004 to 0.125 lb
active
repellent | Apply in water at a minimum of
1 gal spray per acre or
10 to 20 gal spray per acre by
ground.
Use the higher rate in thicker
vegetation or on larger insects.
An approved drift repellent
additive may be added to aid in
controlling drift and reducing
evaporation of insect sprays.
Do not make more than one
application per season.
Do not apply when lactating
dairy cattle are present. Do not
pasture or feed treated hay to
lactating dairy cattle within 21
days after application. Remove
moist animals from treated areas
at least one day before slaughter.
If they were present at applica-
tion or grazed treated areas within
21 days after application. | 21 for hay |
| Impacted Fire
Area | | Mound
Treatment—
Dry
Shrubland
Evenly distribute
1 to 2 teaspoons
over the mound.

Branch
Shrubland
Mix 1 lb in 5
gals of water.
Apply 1 gal of
mix to each
mound area by
sprinkling the
mound until it is
wet and treat a
few additional
downy circles
around the mound. | For best results apply the material
in the early morning or late
afternoon when the ants are most
active.

App's claims made under
arid, hot and dry conditions
may be ineffective due to the
location of the ants deep within
the nest.

Grass in treated area may be
ruined.

Treat maximum of 13 mounds per
acre. Do not treat mound more
than once per season.

Do not apply when lactating dairy
cattle are present. Do not pasture
or feed hay to lactating dairy
cattle within 21 days after
application. Remove moist
animals from treated areas at
least 1 day before slaughter if
they were present at applica-
tion or grazed treated areas within 21 | 21 |

[illegible]

| Plants | Insects | Concentrate P.S.S
Per 100 Gals. | Time of Application | Recommended Applications |
|--|---|------------------------------------|--|---|
| Container
Grown
Succury
Black
Arbor
vite
Azalea
Clematis
Bougainvillea
Roses
Fountain
Penal | Black Vine
Weevils
Strawberry
Root Weevils | 1 lb
16 oz | Application should be made by mid September for green house plants and by mid October for our dear stock. Contact your local county extension agent for information on the domestication and control of root weevils on ornamentals. | Apply the specified amount of DITHANE P.S.S. Schultz Powder per 100 gals. of fountain or to the thorough drenching the root system. |
| | Spider
Ara-
nys | 1 lb
16 oz | Apply as needed to control the pest. | |

| Proportions of GUTTHOUSE Spray Mix using a 16 oz Measuring Cup | | |
|--|---|--|
| Lab of Reconstitution
GUTTHOUSE = 16 Oz. Water | Equivalent GUTTHOUSE
= 20 Oz. Water* | Equivalent GUTTHOUSE
= 1 Gal. Water Spr. Col. |
| 1 lb | 1 1/2 lb | |
| 1/2 lb | 3/4 lb | 2 |
| 1/4 lb | 3/8 lb | 1 |
| 1/8 lb | 3/16 lb | 1/2 |
| 1/16 lb | 3/32 lb | 1/4 |

*Note - 16 oz measuring cup

| | | Approved
GUTHRIE P. 8 | |
|--------------|------------|--------------------------|---|
| Plants | Insects | per 100 sq. ft. | Time of Application |
| Apples | Apple | 1 lb. | As the insects begin to appear |
| Plums | European | 1 1/2 lb. | |
| Cherries | Same | | |
| Strawberries | Leaf miner | | |
| Goats | Same | | |
| Apples | Colorado | | As the insects begin to appear |
| Plums | Jack Bees | | |
| Cherries | Leaf miner | | |
| Strawberries | Same | | |
| Goats | Same | | |
| Apples | Colorado | 2 1/2 lb. | As the insects begin to appear |
| Plums | Same | 5 lb. | |
| Cherries | Leaf miner | | |
| Strawberries | Same | | |
| Goats | Same | | |
| Apples | Colorado | 2 1/2 lb. | As crawlers begin to appear. Repeat |
| Plums | Same | 5 lb. | |
| Cherries | Same | | |
| Strawberries | Same | | |
| Goats | Same | | |
| Apples | Colorado | 2 1/2 lb. | As the appearance of eggs in the leaves of the fruit begins to appear. Repeat |
| Plums | Same | 5 lb. | |
| Cherries | Same | | |
| Strawberries | Same | | |
| Goats | Same | | |
| Apples | Colorado | 2 1/2 lb. | As the appearance of eggs in the leaves of the fruit begins to appear. Repeat |
| Plums | Same | 5 lb. | |
| Cherries | Same | | |
| Strawberries | Same | | |
| Goats | Same | | |

BEST AVAILABLE COPY

Continued

TREES AND SHRUBS

| Plants | Insects | Amount
ORTHENE 75 S
Per 100 Sq. Ft. | Time of
Application | Recommended Application |
|-----------------------------------|---|---|--|--|
| Trees and
Shrubs | Cantharis
Caterpillars
Caneborers
(Spring and
Fall) | 1.3 to 2.3 oz.
5.3 to 10.5 oz. | As the insects begin
to appear. Use the
higher amount when
the larger larvae are
present. | Apply the specified amount of
ORTHENE 75 S Soluble Powder in
100 gals. water with a hydraulic
sprayer. |
| | Hambleton
Pine Tip
Moist Larvae | 1.5
5.0 oz. | Time of application is
important. Consult
your Farm Advisor or
County Extension
Agent. Repeat
applications and be
prepared for sudden
quint generations. | |
| | Root Weevils
Adults | 2
6.0 oz. | Apply when first
feeding damage
occurs. Repeat
applications at four
week intervals until
the first heavy frost.
May be necessary
for complete damage
protection. | Apply the specified amount of
ORTHENE 75 S Soluble Powder in
100 gals. water with a hydraulic
sprayer as a full coverage spray. |
| | Box Elder
Bugs
Sawflies
Borerworms
Leafhoppers | 2
6.0 oz. | As the insects begin
to appear. | |
| | Japanese
Beetle | 3 lbs.
21.3 oz. | As the Japanese
Beetles begin to
appear. Repeat
applications at 2
week intervals. May
be necessary. | |
| | Em Leaf Beetle
(various) | 1 lb.
21.3 oz. | As the larvae begin to
appear. ORTHENE will
not prevent Elm Leaf
Beetle eggs from
hatching. | |
| Douglas Fir
Christmas
Trees | Douglas Fir
Needle Midge | 1 lb.
10.5 oz. | Application should be
made no more than 2
weeks prior to bud
burst. For additional
pest management in
formation. Consult
your County Extension
Service. | Apply the specified amount of
ORTHENE 75 S Soluble Powder in
not less than 2 gals. of spray per
acre by air or 100 gals. of spray
per acre by ground. |
| Evergreen
Shrubs | Aphids
Tent
Caterpillars
Leafrollers | 1 lb.
5.3 oz. | As the insects begin
to appear. | Apply the specified amount of
ORTHENE 75 S Soluble Powder in
100 gals. water with a hydraulic
sprayer.

Do not apply more often than 3
times in a growing season at a 4
week interval.

Common Phytoxicity has
occurred on the following Crab
apple varieties: Nagai (Chionosi),
Malus baccata, Pine Perfection,
Red Wine and Snow Cloud. |

COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

| Plants | Insects | Amount
ORTHENE 75 S
Per 1000 Sq. Ft. | Time of
Application | Recommended Application |
|---|---|---|--|---|
| Turfgrass
Residential
& Commercial
Lawns | For Armyworm
Tentative Striped
Armyworm
Southern
Armyworm | 1 to 12 oz.
1.5 to 3.5 lbs.
per acre | As the insects
appear. A repeat
application at 2 week
intervals may be
necessary. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use a minimum of
5 gals. water per 1000 sq. ft. to
obtain good coverage. |
| | Cutworm | 1.2 to 2.4 oz.
2 to 10 lbs. lbs.
per acre | Apply as needed for
adult population knock
down (10 to 14 days). | Apply the specified amount of
ORTHENE 75 S Soluble Powder per
1000 sq. ft. Use 1 to 15 gals. water per
1000 sq. ft. to obtain good coverage. |
| | Crunch Bugs | 1.2 to 2.4 oz.
2 to 10 lbs. lbs.
per acre | Apply as needed for
adult population knock
down (10 to 14 days). | Apply the specified amount of
ORTHENE 75 S Soluble Powder per
1000 sq. ft. Use 1 to 15 gals. water per
1000 sq. ft. to obtain good coverage. |
| | Fleas | 1.2 to 2.4 oz. | Apply as needed for
knockdown (7 to 10
days) only of existing
adult populations. | |
| | Sod Webworm
(Cranberry egg) | 1 to 3 oz.
1.5 to 2.5 lbs.
per acre | As sod webworms
begin to appear. Use
the higher amount
when knock down
is needed.
Repeat applications
may be necessary.
Do not repeat at
more than 1 week
intervals. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. |
| | Leafhopper | 1 oz. (2 1/2 lbs.)
per acre | As the leafhoppers
begin to appear. A
repeat application at
1 week intervals may
be necessary. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. |
| | Mole Crickets
(Except CA) | 1 to 1.5 oz.
2.0 to 5.2 lbs.
per acre | As mole crickets
begin to appear. For
knockdown of adult
populations. Repeat
applications may
be necessary.
Throughout the grow-
ing season. For heavy
infestations use the
higher dosage rate. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. Do not
water irrigate after
application. |
| | Grasshopper
(Belted)
Grasshoppers | 1 to 1.5 oz.
2.0 to 5.2 lbs.
per acre | Apply when insects
or their damage first
appears. Repeat as
necessary. A single
application is not to be
repeated at more than
1 week intervals. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. Do not
water irrigate after
application. |
| | Grasshopper
(Belted)
Grasshoppers | 1 to 1.5 oz.
2.0 to 5.2 lbs.
per acre | Apply when insects
or their damage first
appears. Repeat as
necessary. A single
application is not to be
repeated at more than
1 week intervals. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. Do not
water irrigate after
application. |
| | Grasshopper
(Belted)
Grasshoppers | 1 to 1.5 oz.
2.0 to 5.2 lbs.
per acre | Apply when insects
or their damage first
appears. Repeat as
necessary. A single
application is not to be
repeated at more than
1 week intervals. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
per 1000 sq. ft. Use 1 to 15 gals.
water per 1000 sq. ft. to obtain
good coverage. Do not
water irrigate after
application. |

| Plants | Insects | Amount
ORTHENE 75 S
Per 1000 Sq. Ft. | Time of
Application | Recommended Application |
|-----------|-----------------------|---|---|---|
| Turfgrass | Imported
Fire Ants | Ground
Treatment—
Dry Baited
Every 4 to 6
inches to 2 to 3
inches over
the mound.

Ground
Treatment—
Mix 1 lb. of 5
gals. of water.
Apply 1 gal. of
mix to each
mound area by
spraying the
mound until it
is wet and
wait a hour (at
least) before
watering the
mound. | For best results apply
the material in the
early morning or late
evening when the
ants are most active.

Applications made
under prolonged hot
and dry conditions
may be ineffective.
Due to the location of
the ants deep within
the nest. | Apply the specified amount of
ORTHENE 75 S Soluble Powder
as directed.

Grass in treated areas may be
mowed.

Do not treat mound more than
once per season. |

| Plants | Insects | Amount
ORTHENE 75 S
Per 1000 Sq. Ft. | Time of
Application | Recommended Application |
|-------------|--|--|--|---|
| Ornamentals | Columbian
Fire Beetle
Southern
Armyworm
Yellow-striped
Armyworm | 1.5 to 1.9 oz.
12.7 to 5.2 lbs.
per acre | As the insects
appear. Repeat in
2 week intervals
if necessary. | Apply the specified amount of
ORTHENE 75 S per 1000
sq. ft. Use a minimum of
5 gals. of water per 1000
sq. ft. to obtain good coverage. |

OUTDOOR WARP AND FORESTER SPIN

| Plants | Insects | Amount
ORTHENE 75 S
Per 1000 Sq. Ft. | Time of
Application | Recommended Application |
|-------------|--|--|--|---|
| Ornamentals | Columbian
Fire Beetle
Southern
Armyworm
Yellow-striped
Armyworm | 1.5 to 1.9 oz.
12.7 to 5.2 lbs.
per acre | As the insects
appear. Repeat in
2 week intervals
if necessary. | Apply the specified amount of
ORTHENE 75 S per 1000
sq. ft. Use a minimum of
5 gals. of water per 1000
sq. ft. to obtain good coverage. |

BEST AVAILABLE COPY

BEST AVAILABLE COPY