



MESSAGE SCAN

To beetle work group  
To D.BRIDGWATER:R06A  
To E.HOLSTEN:R10F04A  
To R.WILLIAMS:R04F02A  
To J.HOFFMAN:R04F02A  
To J.WEATHERBY:R04F02A  
To K.LISTER:R02A

From: David G. Holland:R04A  
Postmark: Oct 24,89 7:50 AM Delivered: Oct 24,89 6:49 AM  
Status: Certified Urgent  
Subject: SUN VALLEY NOTES - BARK BEETLE WORK GROUP

-----  
Comments:

FOLKS - HERE'S THE "ROUGH" OUTLINE OF THE WORK WE PLANNED FOR THE 1990 FIELD SEASON. AS WE DISCUSSED, PLEASE REVIEW WHAT I RECORDED YOU AGREED TO DO AND DISCUSS POTENTIAL FUNDING IN YOUR REGION. FUNDS CAN COME FROM SUPPRESSION DOLLARS..ALL REGIONS HAVE RECEIVED SOME DISCRETIONARY SUPPRESSION FUNDING (BASE) THAT CAN BE USED FOR THESE ACTIVITIES. PLEASE DETERMINE WHAT FINANCIAL COMMITMENTS YOUR REGION CAN MAKE TO IN-REGION PROJECTS AS WELL AS ANY DOLLARS FOR PROJECTS LIKE THE AERIAL VERB TEST OR OTHERS. PLEASE PROVIDE ME WITH YOUR ESTIMATE OF PROJECT COSTS, REGIONAL FUNDS COMMITTED TO THE PROJECTS, AND FUNDING NEEDED. I WILL CONSOLIDATE THE WESTERN NEEDS AND NEGOTIATE WITH THE FPM-WO AND RESEARCH FOR ADDITIONAL FUNDS. IN ORDER TO BE COMPETITIVE WE NEED TO MAKE OUR "PITCH" FOR ANY ADDITIONAL FUNDS VERY SOON, SO I WOULD APPRECIATE RECEIVING YOUR ESTIMATES BY NOVEMBER 3RD. I APPRECIATE THE EFFORT EVERYONE MADE AT THE MEETING IN BOISE/SUN VALLEY. THE MEETING WAS VERY SUCCESSFUL IN DISCUSSING LAST YEARS RESULTS AND DEVELOPING A SOLID PLAN FOR 1990! ANY QUESTIONS, GIVE ME A CALL(FTS 586-5257) OR A BEEP  
DG:D.HOLLAND:R04A. CHEERS!

-----X-----



## MOUNTAIN PINE BEETLE

### VERBENONE

#### GROUND APPLICATION:

- 1) Bubble Caps a)
  - Refine Amman Study - Lodgepole pine High Priority
  - 20/40caps/acre
  - Location: SNRA, R-4
  - Cost: \$30K Weatherby
- a) - Ponderosa pine High Priority
  - 40/68h 80+ #per acre
  - Cost: \$60K Bridgewater
  - Possibly Region 6
- 2) Beads - (Hand Spreader)
  - "525" Bead Low Priority
  - 2 1/2 acre plots
  - Region 1 Gibson/Shea

May not be sufficient area available

- 3) Caulk Gun - Development should be done Real low  
by PheroTech to none

- AERIAL:
- Repeat 1989 Study in Lodgepole pine
  - 525 Bead
  - New Biodegradable Bead Shea
  - 1 lb. vs. 2 lbs./acre
  - Contact PheroTech to extend Env. Use Permit
  - Possible Areas
    - R-1: Lolo NF (Plains RD) - Gibson
    - R-4: SNRA - Thier
    - R-6: Okanagon NF (Roadless Area) - Bridgewater
  - Cost: \$50K
  - Possibly look at new application equipment

- BAIT & CUT:
- Baits/acre (2,5, etc.)
  - Target area affected (may only be able to do case history studies) Gibson
  - Region 1

- PREVENTIVE SPRAYS:
- Continue Pyrethroid Study, Lodgepole pine
  - Region 1 Gibson

## WESTERN PINE BEETLE

### VERBENONE:

- 1) - Evaluate the "best" blends from '89 Idaho test using funnel traps in Sierra's
  - R-5/PSW Shea/Wenz
  - R-3 Bennett
  
- 2) - Bubble Cap Application
  - Similar to '87 SNRA Verbenone study
  - Region 4 Thier
  - \$30K

### SPRAY & BAIT:

- Continue '89 study in Idaho
  - \* Photos in June
  - \* Rebait Thier
  - \* \$30K
  
- Evaluate '89 Idaho study in Colorado/Arizona
  - Region 2 - In-house costs Lister
  - Region 3 - \$50K Bennett

### BAIT & CUT:

- Determine # baits/acre
- Effect on Target Area (photos, # dead trees)
- Case history design Thier
- \$5K
- Possibly replicate in Region 3

### PREVENTIVE SPRAY:

- Continue '89 Idaho evaluation w/
  - \* Pyrethroids/Carbaryl Hoffman/
  - \* \$5K Shea
  
- Evaluate "Best" of Idaho Pyrethroid Study
  - \* Evaluate height of treatment for Shea/
  - effectiveness on 150+ fir trees Wenz
  - \* PSW/R-5

DOUGLAS-FIR BEETLE

BAIT & CUT:

- Baits/acre, R-6 (2 baits/acre)
  - Target area effect
  - Bridgwater will provide study plan
  - \$40K
- Bridgwater

TRAP TREE EVALUATION:

- What's Best:   downed/unbaited  
                  downed/baited  
                  standing/baited  
                  lethal trap
- Thier

PREVENTIVE SPRAY (Carbaryl):

- Maybe Region 2
- Lister

MCH: (\$TBA)

- Ground
  - \* Beads - R-2, R-4
  - \* Bubble caps - R-4
- Aerial - R-1, R-4

SPRUCE BEETLE

BAIT & CUT:

- Containment Strategy - Alaska Holsten
  - \* \$15K (Plus funnel trap study)
- Baits/Acre and Target Area affected Munson

FUNNEL TRAPS:

- Evaluate Release Rates Holsten
- Alaska

SPRAY & BAIT: Continue '89 Study in Alaska Holsten

MCH:

- Aerial Application
  - \* R-1 Gibson
  - \* R-4 Holland
  - \* R-10 Holsten
- Ground Application

MISCELLANEOUS

Ips - Skeeter Werner  
- Containment Studies - AK

Research Need - Trap cut Technique for Ips (R-3 interested)

- CA - Anti-aggregs (Tim Paine)
- ID (PheroTech)
- MN has Operation "Trap-out" for Ips  
Tom Hofacker send out sheets

Dryocetes (Utah) - Preliminary evaluation of baits - Munson

Scolytus V. Pheromone - CA (Shea/Borden)  
True fir/Grand fir/White fir

Jeffrey Pine Beetle - Pheromone Evaluation (Tahoe, R-5)