TECHNICAL DATA

# VectoBac® 12AS

Biological Larvicide

## Results of Black Fly Trials with VectoBac® 12AS

| BLACK FLY SPECIES | HABITAT/LOCATION | INVESTIGATOR | METHOD OF APPLICATION | RATE PPM/MIN | MEAN LARVAL MORTALITY | CARRY (MILES) |
|---|---|---|---|---|---|---|
| *Simulium jenningsi* | Susquehanna River,<br>Allegheny River,<br>Delaware River | D. Arbegast<br>PA DEP<br>Harrisburg, PA | Aerial<br>Aerial<br>Aerial | 11.5<br>11.5<br>11.5 | 95%<br>90%<br>98% | 0.3–2.0 mi<br>1.0 mi<br>1.0 mi |
| *S. jenningsi* | Yellow Breeches Creek | D. Orr<br>PA DEP<br>Harrisburg, PA | Ground | 10.0 | 95% | 1.5–2.5 mi |
| *S. confusum*<br>*S. tuberosum* | Duncan Creek | E. Gray Clemson University<br>Clemson, SC | Ground | 25.0 | 93% | 2.3 mi |
| *S. jenningsi* | Tyger River | | Ground | 10.0 | 91% | 5.8 mi |
| *S. jenningsi* | New River | J. Smithson<br>WV DEP<br>St. Albans, WV | Aerial | 11.0 | 90% | 0.5–1.0 mi |
| *S. vittatum* | Jordan River | K. Minson Salt Lake City, UT | Ground | 25.0 | 93% | 0.5–1.0 mi |

## Results of Mosquito with VectoBac12AS

| MOSQUITO SPECIES | HABITAT | INVESTIGATOR | METHOD OF APPLICATION | RATE PTS/AC (L/HA) | MEAN LARVAL MORTALITY |
|---|---|---|---|---|---|
| *Aedes vexans* | Floodwater | G. Benzon Cape May County, NJ | Ground | 0.5 (0.6) | 98-100%<br>48 hrs |
| *Ochlerotatus taeniorhynchus* | Ponds | G. Scott U of S.C.<br>McClellanville, SC | Ground | 0.5 (0.6) | 100%<br>24 hrs |
| *Psorophora columbiae* | Rice | M.Meisch<br>Fayetteville, AR | Ground | 0.5 (0.6) | 100%<br>24 hrs |
| *Culiseta inornata* | Brackish | R. Garcia Alameda County, CA | Ground | 0.5 (0.6) | 96%<br>48 hrs |
| *Culex tarsalis*<br>*Anopheles freeborni* | Rice fields | R. Garcia Yuba County, CA | Air | 2.3 oz (0.15) | 96%<br>48 hrs |
| *Ochlerotatus sollicitans* | Salt marsh | C. Lesser Somerset County, MD | Ground | 0.5–1.0 (0.6–1.2) | 96%<br>48 hrs |
| *Ochlerotatus sollicitans* | Salt marsh | C. Lesser Dorchester County, MD | Air | 0.5–1.0 (0.6–1.2) | 95-98%<br>48 hrs |
| *Ochlerotatus taeniorhynchus* | Mangrove | R. Parsons Sarasota County, MCD<br>Marathon, FL | Air | 2.0 (2.4) | 98-100%<br>24 hrs |
| *Ochlerotatus spp.* | Pasture | A. Inman | Air-ULV | 1.5 (1.8) | 100% |