



Agnique MMF Granule Field Trial

Maricopa County
2009

Trial Conducted by Kara Cox (Maricopa
County Vector Control) and Dean Oester
(Cognis)

Presented by Gale Jirik (ADAPCO)



What is Agnique MMF?

AGNIQUE[®] MMF is a surfactant

Similar to products used in
cosmetics and skin lotions for
more than 30 years

Non-toxic ($LD_{50} > 20,000$ mg/kg,
oral rat) Non-irritating
generally a clear, colorless,
odorless liquid



MMF's mode of action

It reduces the surface tension of the water. Larvae and pupae can't attach to the surface so they work themselves to death swimming up & down, which results in eventual drowning



**Agnique MMF is a larvicide
and pupicide! It is the only
larvicide/pupicide labeled for
use in potable water in the
United States!**



Maricopa County Field Trial

The purpose of the trial was to determine the efficacy of Agnique MMF Granules in swimming pools and compare last years formulation with the new formulation



Two sites were treated

Site One - 4115 W. Rose Lane, Phoenix – Last Years Formulation

Site Two - 6433 N. 44th Ave., Phoenix – This Years Formulation

ADAPCO
more in controlSM

Site One



ADAPCO
more in controlSM

Site Two



	Site One	Site Two
April 21 st (Initial Treatment)	1 st – 4 th instar larvae and pupae present	1 st – 4 th instar larvae and pupae present
April 23 rd (2 day re-inspection)	Reduced larvae population present (light breeding) pupae dead	Reduced larvae population 1st instar larvae – (light breeding) pupae dead
April 27 th (6 day re-inspection)	Reduced larvae population present, (light breeding) few pupae present, retreated pool	Heavy larvae population present 1 st – 2 nd instar, no pupae
April 29 th (8 day re-inspection)		Heavy larvae population present 1 st – 4 th instar, no pupae
May 4 th (13 day re-inspection)		Heavy larvae population present 1 st – 4 th instar, no pupae, retreated pool



Conclusion

- Old formulation reduced population but a few pupae developed. Reason unclear
- New formulation continued to provide control out to 13+ days



Thanks to John Townsend, Kirk Smith,
Kara Cox (Maricopa County Vector
Control) and Dean Oester (Cognis)

Questions?

Thank You!