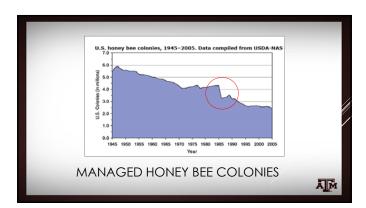
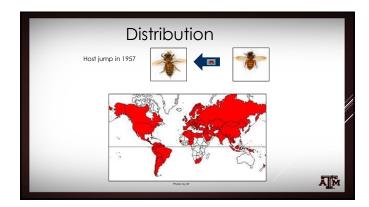
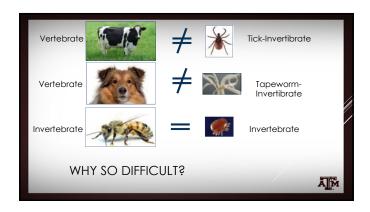


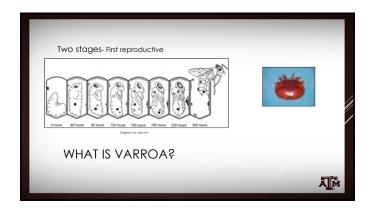
VARROA IS PUBLIC ENEMY # 1 ► Arrived in U.S. in1987 ► 80% of the problem ► Killed 90-95% (s. California Study) ► Associated 85% of collapse in Canada (Guzman-Novoa2010) ► Sea Change



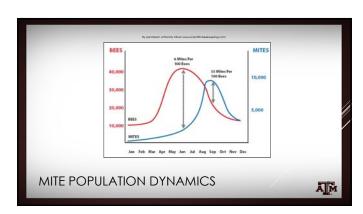


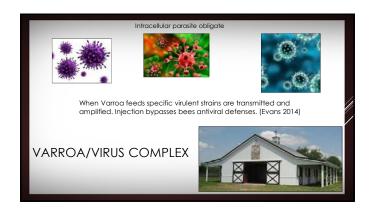








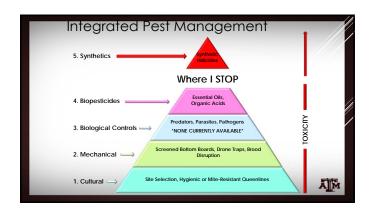














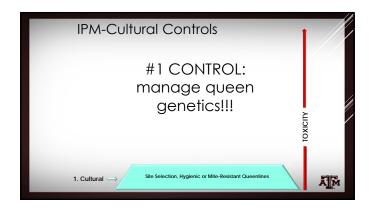
ECONOMIC THRESHOLDS ► Action (Treatment) Threshold-2% ► Significant honey loss-3% (Australian and Can.) ► At 5% collapse is possible/likely (RindererUSDA) ► Mites/Virus Complex

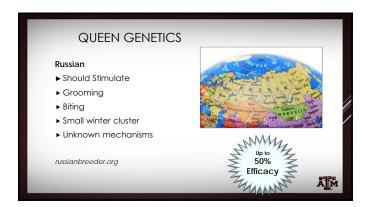




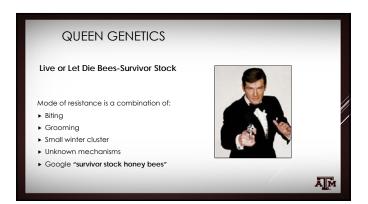


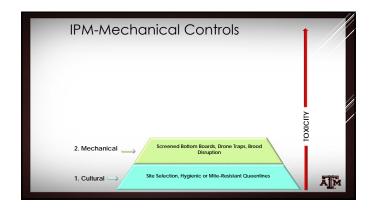


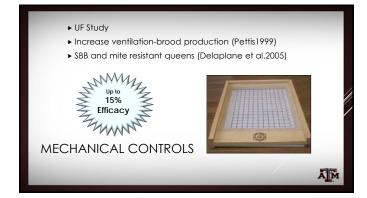


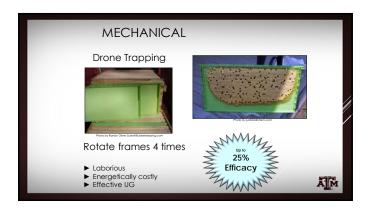




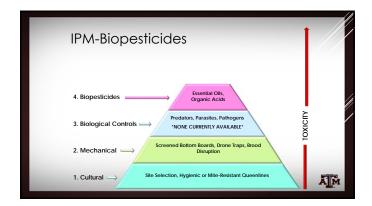






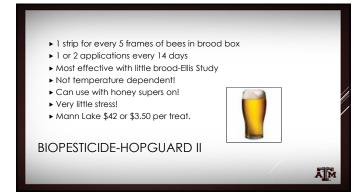






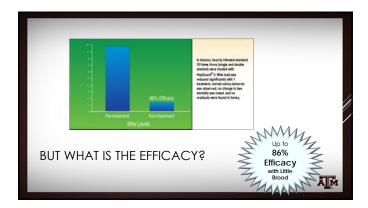


























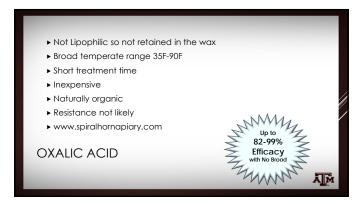


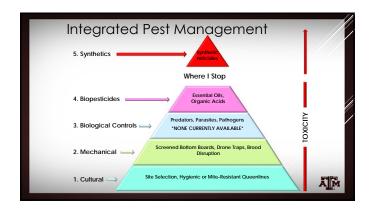




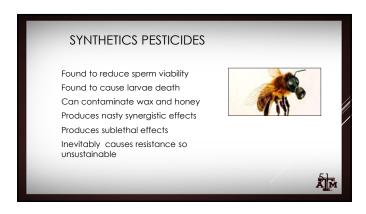






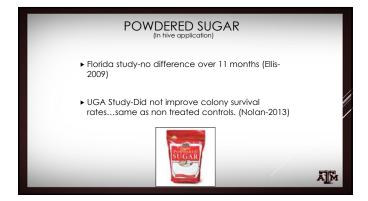


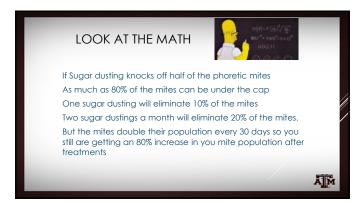












- ► The belief that the use of foundation with smaller cell sizes will lower mite loads
- ► UGA Study-2009
- ► UF Study-2009
- ► New Zealand Study-2008



CONTROVERSIAL-SMALL CELL

TAKE AWAY Know your mite levels! Use mite resistant stock Use a combination of Bio-technical strategies before you escalate Use organic bio-pesticides only if stronger measures are needed Must be proactive!!!

