On-Farm Food Processing Course in Maryland: A Multi-Agency Approach





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Background

- Farmers' markets becoming more popular
 - Types of foods sold expanding
 - Broad consumer appeal
- Farms are disappearing
 - Valuable land
 - Agricultural preservation important to MDA
- Farms need to be profitable to remain viable
 - On-farm processing of value-added foods can help profitability

Revised state regulations (Feb. 2005)

- Overall purpose
 - Expand economic opportunities for Maryland farmers
- Key points
 - Allowed individual who owns farm to process foods at home for commercial sale
 - Expanded allowable foods
 - Greatly expanded marketing opportunities
 - Farmers' markets, retail stores, restaurants
 - Out of state

Foods allowed: Limited selection of non-potentially hazardous foods

- Baked breads, biscuits, cakes, muffins, cookies (Aw<0.85) without potentially hazardous toppings, glazes, icings, fillings
- Fruit pies, turnovers, tarts (pH<4.6)
- Canned acid foods (pH<4.6)
 - Fruit jelly, jams, and preserves
 - Fruit butter from apple, apricot, grape, peach, plum, prune, quince
- Herbs in vinegar (pH<4.6)
- Honey
- Dried fruit and vegetables
- Peanut butter
- Some fish

Foods not allowed

- Low-acid canned foods
- Cured or fermented foods
- Apple cider or other juices
- Grade A milk products
- Frozen desserts

Animal and seafood products

- Limited processing of raw meat from animals raised on the farm
- Animal (beef, lamb, pork) must be slaughtered and chilled at facility inspected and regulated by USDA
- Seafood finfish allowed, except those associated with histamine intoxication, such as tuna, mackerel, and mahi mahi

Key provisions of regulations

- Food must be produced in kitchen located on the farm
- Must allow inspections
 - Limited to areas and equipment used for processing
 - Samples may be taken
- Keep ingredients and finished products in separate areas for commercial and domestic use
- License required

Strategies for risk reduction

- Limit permissible foods
- Limit production to \$40,000/year
- Yearly inspection
- Before approval
 - Provide consultation
 - Conduct process review
 - On-site visit to kitchen
- Train farmers in safe food processing

Training course

- Must be completed prior to applying for license
- Minimum 8 hours of training in
 - Applied microbiology
 - Sanitation
 - Good manufacturing practices
 - HACCP principles
 - Cross-contamination controls
 - Food security/food defense
- 4 regional one-day workshops in March 2005
- Optional acidified food course
- Agencies involved: DHMH, MDA, MCE, USDA

Training course (contd.)

- Widely publicized
 - Governor's office
 - Participating agencies
 - News releases, websites
- Provided notebooks
 - Written resources
 - Applicable regulations
- Evaluations
- Certificate





Certificate of Attendance

This certifies that

JOHN DOE

has attended the

ON-FARM PROCESSING COURSE

March 7, 2005

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Key points made to farmers

- You assume a large responsibility when processing foods for the public
- You must differentiate between home cooking and on-farm food processing: Different mindset
- You may not transfer the risk you may be willing to accept onto those who will consume your product
- You need a proper process
- You need to follow proper sanitation
 - Clean food contact surfaces
 - How pets and children contribute to contamination

Challenges

- Collecting registration fees
- Communicating with all stakeholders
 - County offices of economic development and agricultural marketing professionals initially omitted in planning
- Roadblocks
 - Coordination/turf issues
 - Resistance of certain groups

Outcomes

- Approximately 250 farmers attended the course
- Quantitative evaluations: Knowledge gained
 - 20 questions
 - Pre test: mid-60s
 - Post test: high-70s
- Qualitative evaluations: Impressions
 - Highly favorable
- Low attendance (n=9) at acidified food course
- 3 on-farm home food processing licenses granted

Possible stumbling blocks

- Suspicion of government agencies
- Perception of too many hurdles
 - Inconvenience of training locations
 - Course offered one time per region
- Fear of on-site inspection
 - Concerns that violations will be found
 - Well water, septic system, potable water
- Local ordinances for zoning, water, and sewage
- Liability issues
- Timing of training sessions (March too late?)
- License fees

Where do we go from here?

- Survey participants to learn reasons for low license applications
- Understand reasons for continuing violations at farmers' markets
- Consider providing assistance to farmers to upgrade water and sewage systems

Conclusions

- Starting point: A practical first step
- Issue will not go away
 - Interest is high
 - Political realities
- Lessons learned
 - Involve all stakeholders
 - Address farmers' concerns

Thank you!





