



Farm and Food Tourism: Exploring Opportunities











Regional Program Overview

- Lead: Utah State University Extension
 - Kynda Curtis, Karin Allen, Paul Hill
 - Susan Slocum (GMU)
- Partners
 - University of Nevada, Reno Carol Bishop
 - University of Idaho Wilson Gray
- Funding: Western SARE (Sustainable Agriculture and Research Education)











Agenda

/			
Time	Session Name	Speaker	Affiliation
9:00 to 9:15	Introductions and Workshop Overview	All	
9:15 to 10:30	Introduction to Farm and Food Tourism	Susan Slocum and Kynda Curtis	George Mason University and Utah State University
10:30 to 11:45	Farm and Food Tourism Options	Susan Slocum and Kynda Curtis	George Mason University and Utah State University
11:45 to 12:15	Lunch	Provided	
12:15 to 1:30	Accessing and Serving the Tourism Market	Kynda Curtis and Susan Slocum	George Mason University and Utah State University
1:30 to 3:00	Producing and Marketing Value Added Foods	Karin Allen	Utah State University
3:00 to 4:00	Assessing the Economic Feasibility of New Enterprises and Products	Kynda Curtis	Utah State University
4:00 to 4:15	Wrap-Up and Evaluations	All	











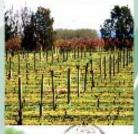
Materials

- Workbook
 - Agenda
 - PowerPoints
 - Worksheets
 - Resources
- Workshop Evaluation











Introductions

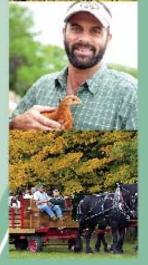
- Name and location
- Operation type and current products, or
- Agency/employer and work with producers
- What do you hope to take away from the workshop?











Workshop Evaluations

- Please complete before leaving today...
 - Assist in planning future workshops
 - Assist in applying for grant funding
 - Assist in documenting program impacts

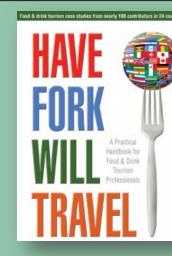




Thank you!







Module 1: Why Farm and Food Tourism?









Overview

- Understand the growing market for farm and food tourism
- Understand the specific enterprise and product opportunities within farm and food tourism
- Evaluate the role foods play in creating a tourism destination image
- Recognize farm/food tourism impacts to rural communities
- Understand the potential benefits of implementing farm/food tourism operations and products









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Food Tourism & Economic Development

- Agricultural producers face numerous challenges and look to diversify product offerings, access new markets, and expand market periods and pricing
- Tourism providers struggle to find the regional distinctiveness necessary to differentiate themselves from other tourism destinations
- As a result of the growing local foods movement, farm and food tourism may provide a solution







Food Tourism & Economic Development

- Food tourism has been shown to......
 - Enhance a destination's tourism offering
 - Generate additional economic opportunities for local growers and processors, especially in close proximity to prime tourism destinations
 - Provide a venue to promote and distribute local agricultural goods and value-added products
 - Provide tourists with the cultural experiences they seek











Buy Local Movement

- 185% increase in farmers' markets from 2000 to 2014
- 275% increase in CSA programs from 2004 to 2014 (6,000)
- 288% increase in food hubs from 2007-2014 (302)
- The National Grocery Association 2012 Consumer Panel
 - The availability of local foods was a major influence on grocery shopping decisions as 87.8% of respondents rated local food availability as "very or somewhat important," with 45.9% indicating "very important"
 - The need for "more locally grown foods" was the second most desired improvement among surveyed grocery shoppers at 36.6%, just under "price/cost savings"
- In 2012, 164K farmers (7.8% of US farms) sold \$6.1
 billion in local foods





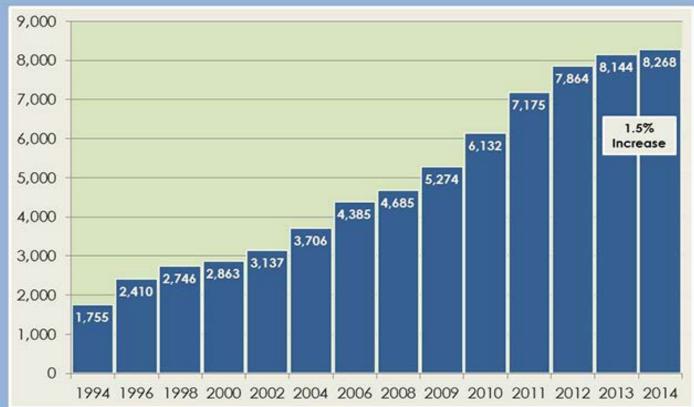






Farmers' Markets in US

National Count of Farmers Market Directory Listings



Source: USDA-AMS-Marketing Services Division

Farmers Market information is voluntary and self-reported to USDA-AMS-Marketing Services Division







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Local Food While Traveling

- The National Restaurant Association's 2013
 Restaurant Industry Forecast reported that 7
 of 10 consumers were more likely to visit a
 restaurant offering locally sourced items
- The National Restaurant Association's 2014 "Top Ten Trends across the Nation," included locally sourced meats/seafood and locally grown produce as the top 2 trends
- The US travel Association reports that 27 million travelers, or 17% of American leisure travelers, engaged in culinary or wine-related activities while traveling within the past three years



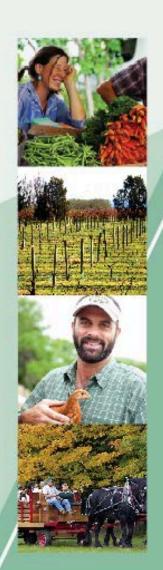




International Trend

- Local food demand not just a US phenomenon
- Denmark, Switzerland, and Austria report the highest per capita consumption of farmers' market produce
- The European Union has required origin labeling for all fresh food since 2011
- The UNWTO reports that 88.2% of member countries consider gastronomy a crucial element in the brand and image of their destination and 68% of the countries consulted carry out marketing activities or promotion based on food tourism (US included)





Brand USA



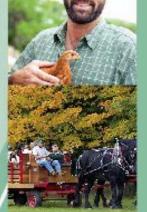
 Destination marking organization for the United States, established in 2011











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What is Food Tourism?

- The desire to experience a particular type of food or the products of a specific region...
 - A form of regional development that helps strengthen local food and beverage production through backward linkages in tourism supply-chain partnerships
 - Provides new opportunities to promote and distribute local products while providing an enhanced visitor experience through the expression of community identity and cultural distinctiveness





What is Food Tourism?

- An expression of culture
- A form of regional heritage
- Supports the enhancement of the tourist experience
- Creates backward linkages in the food supply chain
- Supports socio-economic growth in rural regions













What is Agritourism/Farm Tourism?

- Agritourism is a subsector of food tourism that specializes in the incorporation of visits to farms for the purposes of on-site retail purchases, enjoyment, and education
 - Pick your own
 - Farm-stays
 - Corn mazes
 - Farm tours
 - Farm shops









Farm Tourism Examples

- Farm/ranch vacations
- Garden/nursery tours
- Fee fishing
- Fee hunting
- Horseback riding
- Petting zoo
- Camping/picnicking
- Wagon rides
- Bed and breakfast
- Agricultural exhibits
- Skeet shooting
- Exotic farm animals

- School tours
- U-pick operations
- Game preserve
- Christmas tree farms
- Wagon rides
- Pony rides
- Pumpkin patch
- Farm shops/stands
- Bird watching
- Corn maze







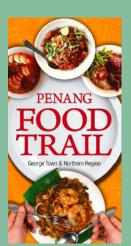






What is Culinary Tourism?

- The practice of exploratory eating, especially those instances in which eating unfamiliar food or participating in new food customs as a way of encountering, learning, or understanding other places and cultures
 - Food/wine trails
 - Cooking schools
 - Farm shop visits
 - Restaurant experiences









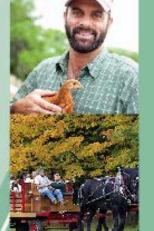
Culinary Tourism

- Occurs when visitors seek to experience cuisine and culture together
- Focus on authentic and unique experiences that take advantage of the unique heritage, charm, hospitality, and sense of place that already exists in the community
 - Wine tourism in California
 - Cheese sampling in Wisconsin
 - Maple syrup tasting in Vermont
 - Cajun food experiences in Louisiana









Food-Based Attractions

- Include special events surrounding food and drink
 - Food festivals
 - Farmers' markets
 - Wine festivals
 - Beer festivals



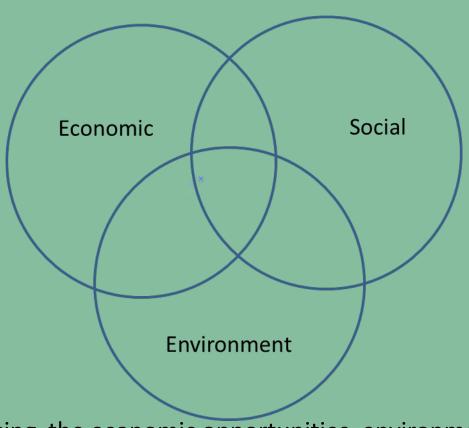




Food Tourism & Rural Communities



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Enhancing the economic opportunities, environment, and social fabric of a region







Food Tourism

- Economic Impacts
 - Increases employment in rural areas
 - Decreases rural-to-urban migration
 - Reduces economic leakages
 - Promotes fair trade











Food Tourism

- Environmental Impacts
 - Preservation of open-space/agricultural areas
 - Respects the carrying capacities of natural ecosystems
 - Reduction in waste, which is often recycled into the farm's production process
 - Supports alternative or specialized production systems (free-range or pasturegrazing, organic, eco-friendly, etc.)









Food Tourism

- Social Impacts
 - Food is an expression of culture
 - Flavors develop throughout history based on the local environment, historic trade routes, and settlement
 - Food is an important component of local religious practices and celebrations









Where Food Tourism Originates

- Government policy top down
- Tour operators demand driven
- Individuals innovative business ideas
- Individuals passionate people









The Players

- The agriculture sector
 - Agricultural producers seek to diversify their offerings and distribution networks in an attempt to secure a viable future
- The tourism sector
 - Tourism is facing increased competition and struggles to find the regional distinctiveness necessary to differentiate themselves against the sheer number of tourism destinations, both locally and internationally











Connecting Local Producers & Tourism Sector

- Many local producers are micro-businesses that do not want to grow and/or farmers are reluctant to diversify
- Producers often do not see the value-added in entering the tourism sector
- Producers lack knowledge and/or available knowledge is confusing about tourists and the tourism industry
- It is difficult to reach producers as they are widely spread geographically
- There are differing needs between small and large producers









Common Challenges in Food Tourism

- Encouraging wider use and better promotion of locally produced food
- Identifying and accessing tourism markets
- Gaining knowledge about tourism markets as tourism data is fragmented and not well maintained
- Building a destination brand based on local food production or food service establishments
- Collaboration and creating a better network between regions and groups (food producers and hospitality businesses)
- Accessing best-practice knowledge from around the country









Food Tourism Development

- The tourism industry has led the charge in innovation due to its elevated importance in rural growth policies
- Emphasis has shifted away from sectorally-based towards territorialbased development
- The unification of food and tourism requires the cooperation of distinctly different industries with varying needs and challenges











Why Consider Food Tourism?

- Food is one of the major tourism activities
 - One-third of tourism expenditures are on food/drink
 - Tourists tend to be less sensitive to food prices
 - Food is considered a "vital" component in the quality of a tourism experience
 - The product is the basis of food tourism













Tourism Market in the West

- Western US a popular tourism destination, prime area for tourism development
 - 20+ national and state parks
- Idaho 2013 tourism indicators
 - 30.2 million total visitors
 - Total travel spending: \$1.4 billion
- Nevada 2013 tourism indicators
 - 52.2 million total visitors
 - 24.6 million state/national park visits
 - Total travel spending: \$58.1 billion
- Utah's 2013 tourism indicators
 - 23.5 million total visitors
 - 4.2 million skier visits
 - 10.4 million state/national park visits
 - Total travel spending: \$7.5 billion









Why Consider Food Tourism

- Additional market for current products
- Diversification into new enterprises/products
- Reduced transportation/marketing costs
- Year-round sales (additional sales)
- Outlet for value-added products
- Income/employment for family members
- Cottage food production now option in Nevada/Utah/Wyoming/Colorado









Why Consider Food Tourism?

- On-farm activities, the visitor comes to you
 - Eliminates the need for transportation
 - Ability to work in a familiar environment
 - More flexibility in scheduling activities
 - Display "show off" products
 - Educate others about local foods
 - Interact with people from around the globe









Activity

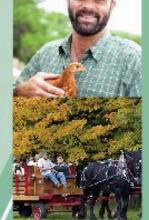
- Worksheet 1.1: The Role of Food in Tourism
 - Think about a recent trip/vacation.....
 - What role did food play in your travels?
 - Did you have a memorable food experience?
 - Did you try any local/ethnic foods?
 - Did you visit any food attractions?
 - Did you purchase any food souvenirs?
 - Did you notice restaurants sourcing local food? If so, how was it promoted?
 - What type of food experience would have enhanced your trip?











Activity

- Worksheet 1.2: Enterprise/Product Description
 - What unique products/services can your operation offer tourists?
 - What partners do you have that can assist?
 - How, specifically, can they help?





Thank you!







Module 2: Farm and Food Tourism Considerations









Overview

- Evaluate the type of farm and food tourism enterprises best suited to the existing business
- Understand the management and resource requirements of farm and food tourism enterprises
- Examine the requirements and challenges of sourcing locally to restaurants, hotels, and conference centers
- Understand the benefits of building community partnerships











Getting Started

- Determine what you will offer
 - Identify some activities that seem doable
 - Fit with your goals and your resources
 - List all the tasks or steps required to start
- Make sure your ideas are good ones
 - Call the extension or tourism office for input, or enlist the help of a business counselor or event planner
 - What may sound good to you may not sound good to others
- Know you customers
 - Knowing where your customers are from and what their preferences and lifestyle choices are will help you tailor your offerings, pricing, and promotional activities
 - Collecting email information may allow you to maintain regular contact with customers through e-marketing campaigns or social media











Getting Started

- Start small
 - Develop a launch date for the activity
 - List the resources needed
 - List all tasks to be completed
- Protect yourself and your customers
 - Make sure you understand the regulatory and legal aspects of your new enterprise
 - Develop a risk assessment plan
- Get the word out
 - Make sure publicity is integral in your plans
 - It takes a lot of promotion to get the attention you will need for launching a new enterprise
 - Word of mouth is key to building business











Getting Started

- The soft opening
 - Start with a small activity targeted at a select group to test your ideas
 - Understanding how you are perceived by visitors is essential to improving your "first impression"
 - Good first impressions involve trained staff who interact well with customers to ensure a safe and high quality experience
- Take it slow
 - Take time to get feedback from customers about what else they might like to see, do, learn or buy
 - Each year, add in another attraction or product









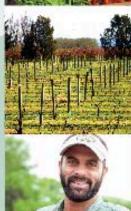
Considerations by Enterprise

- Farm-based activities
- Food-based attractions
- Sourcing locally
 - Restaurants
 - Hotels/conference centers
 - Conferences/meetings











- Assess your personality
 - Do you enjoy people?
 - Are you good with children?
 - Are you a good communicator?
 - Are you patient?
 - Are you organized?
 - Do you enjoy learning new things?
 - Can you adapt to change?
- If the answer to the majority of these questions was yes, then you are a good candidate for farm tourism











Create a "Destination"

- Offering an experience that customers are willing to pay for without sacrificing the uniqueness of the place
- May require coordinating with neighboring businesses or communities to develop more weekend itineraries that encourage overnight stays
- Work together with local lodging, food service, and agricultural enterprises to create a network of services for guests
- What are visitors going to do while they're here?











Land & Equipment Resources

- Do you have sufficient property resources for the venture and parking?
- Is your venture located near the market you hope to attract?
- Are directions to your location easy to give?
- What will you have to change about your property to accommodate your new venture?
- Is it possible to start the business without making any major changes or investments?









Financial & Labor Resources

- Assess your financial capabilities
 - Will you have the cash you need to begin your venture or will you need to get a loan?
 - Are you willing to borrow the money?
- Estimate your time and labor needs
 - The time and energy needed to run an operation will require work and support from the whole family
- Lots of multi-tasking and learning of new skills will be necessary









Legal & Liability Options

- Seek legal assistance As the owner it is your responsibility to see that your visitors are safe and protected, but accidents happen
 - Consider becoming a limited liability company (LLC)
- Explore insurance options
- Develop a business and marketing plan











Health, Zoning, & Environmental Regulations

- Food tourism requires sufficient capacity (staff and infrastructure) to provide basic services
 - Parking, transportation, signage, customer assistance, and restrooms
 - Property and facilities should be well maintained and in compliance regulations
- Keep up with food safety regulations and follow a food safety plan











Safety Issues

- Are you ready for visitors?
- Is your facility handicapped accessible?
- Are there plenty of restrooms?
- Are ponds or other dangerous areas fenced off?
- If your mode of on farm transportation is wagons, what safety features do they have? Do they have high rails to keep children in?
- Are there safety barriers to prevent accidents?
- Are people in place to assist visitors who might have difficulty?
- Is there a plan in place to care for someone who has an accident?









Food-Based Attractions

- Vending at existing fairs/festivals/events
 - Convince the organizers that you should vend food at their event
 - Pick your food carefully
 - Aim for a large target audience
 - Organizers want something that will stand out from the rest
 - Know what paperwork/licensing you will need.
 - You may need to get a license from a local authority which may include a fee
 - Find out about insurance requirements
 - Find references that articulate your ability to provide large-scale food production in an outdoor setting





Food-Based Attractions – Food/Drink Festivals

- Establish a theme that enhances your destination image
- If a similar program already exists, avoid duplication
- Gain buy-in where you want to hold the event
- Vary the programming for a general audience event
- Make sure the space can accommodate the crowds
- Make sure vendors can handle attendee volumes
- Create a budget and get bids from reputable companies
- If this is your first time planning the event, hire an outside festival vendor
- Market through traditional tourism channels, partnering with area businesses and tourist destinations











What is Sourcing Locally?

- The promotion of local sources of food through enhanced local menu items
- The inclusion of locally grown food items in the hospitality (restaurants, hotels, conference centers, etc.) supply chain
 - Local produce and livestock
 - Local foods
 - Local recipes
 - New/exotic foods











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Local Food Demand

- The National Restaurant Association's 2013 "Restaurant Industry Forecast" reported that 7 of 10 consumers were more likely to visit a restaurant offering locally produced items
- The National Restaurant Association's 2014 "Top Ten Trends across the Nation," included locally sourced meats and seafood and locally grown produce as the top 2 trends





Sourcing Locally

- Involves sourcing restaurants, hotels, conference centers, and meetings
- Check with major distributors, such as Cisco or Avendara, as they have programs for the provision of local food
 - These may be expensive or bureaucratic
- Consistency and reliability are the most important feature to food service establishments
 - Are there central drop-off locations (food hubs) to reduce time and travel requirements?











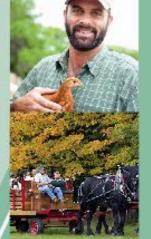
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Sourcing Local - Restaurants

- High-end or fine dining category \$100 couple
- Locally-produced, in-season, and specialty products in demand
 - Perceived higher quality and freshness
 - Restaurant customers request local products
 - Chefs seek innovative or unique items
- Why Restaurants?
 - Pricing higher than wholesale
 - Reliable customer base
 - Opportunity to build relationship with customer/local business
 - Opportunity to grow special or new products and varieties







Sourcing Restaurants



- Challenges
 - Delivery, availability, and variety requirements
 - Limited seasonal availability
 - Low volume frequent sales
 - High turnover chefs move, restaurant's close
 - Product packaging, labeling, processing to meet food safety regulations









Sourcing Restaurants

- Contact the chef or person in charge of purchasing never contact during meal service
- Research the menu, clientele, food philosophy
- Understand the key personnel chefs, owners, managers
- Find out how they wish to be contacted and when (day/time)
- Invite the chef or buyer to your farm
- Bring samples of produce to share with the chef/buyer
- Schedule a winter visit for product planning/seed selection
- Prepare a "story" for your farm
- Provide overview of your products, volume, packaging, availability (season)
- Update chefs on availability regularly
- Grow unique items, select the best product for chefs
- Make weekly contact at agreed time, provide deliveries on time
- Immediately notify chef of potential shortages and/or change in delivery







Sourcing Local - Hotels/Conference Centers

- Hotels need the largest supply during peak summer seasons when farmers are busiest
- Conference centers need the largest supply in the winter (off season)
 - Consider season extension or value-added foods
- Supply chains are a complex issue for global hotel companies as suppliers extend across numerous countries in which they purchase food and beverage, heavy equipment, linens and pillows, personal soap and shampoo











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- The menu choices made by hotels/conference organizers are driven largely by cost-consciousness and risk aversion
- Sourcing options for most hotels/conference centers are constrained by national sourcing contracts with major distributors
- Farmers may have difficulty competing with large-scale producers with large-scale marketing







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Sourcing Hotels

- Hotel food service establishments operate similarly to restaurants, but have some differences
 - The Food and Beverage Manager should be your first contact
 - Invite the F&B Manager to your farm
 - Hotels usually need staple items (fresh meat, vegetables, fruits) rather than specialty/unique items (They do not offer "daily specials")
 - Hotels usually need the same items in the same amounts each week (unless it is a conference center as well)
 - Bring samples of produce to share with the chef/buyer
 - Provide deliveries on time
 - Immediately notify F&B manager of potential shortages and/or change in delivery
 - Provide references







Sourcing Local - Conferences/Meetings

- Often meeting planners are the best contact
- Find meeting planners that specialize in "green meetings"
- Meeting planners may only need products occasionally, but in large quantities
- Know where planners source their food (in-house food and beverage, caterers, self bought, etc.)











Sourcing Conferences/Meetings

- Partner with other local farms to ensure quantity
- Think of the "whole" package coffee, pastries, snacks, meat, vegetables, dairy, juice, bread
- Snack foods provide an option for valueadded products











Sourcing Conferences/Meetings

- Have an accurate list of produce in season each month
- Promote your strengths
 - Fresh, healthy food allows participants to sit longer and concentrate (no sugar high/crash)
 - Tell your region's story (promote cultural and environmental sustainability)
 - Provide printed fliers to promote your involvement













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More Considerations

- Work in partnership
 - Coordinating to serve a common market is mutually beneficial
 - Agricultural, tourism, marketing associations, community food system organizations, chambers of commerce, or business districts will help develop the destination image
 - Coordinate with other tourism attractions nearby
 - Actively participate in regional food and drink events

Tips for Building Community Partnerships

Goals	Actions
Talk about your proposed project and share your ideas at clubs and meetings	Listen to their concerns and feedback. Address any potential problems early in the project's development.
Develop a comfortable style of public presentation	Create a clear picture of your mission and expected outcomes. Join the local chamber of commerce. Offer to write a regular column for your local newspaper if you have time and the ability.
See any shortcomings as potential for future partnerships	Inventory your community, seeking out those who have what you need in order to accomplish your goals. Develop mutually supportive relationships.
Identify those with whom you share potential customers	Develop joint promotions and possibly joint marketing opportunities to track the source of your leads. Be innovative.
Engage adversaries	Most people simply want to be heard or are afraid of unknown impacts. Sit down with them, listen, and address their concerns.
Make your business and marketing plans available	Engage community members to work with you. Use your plans to support your actions and efforts.
Manage the physical expansion of your operation	Ensure a satisfactory quality of life for everyone affected.
Work with other businesses	Encourage support for locally owned businesses in general.
Build on resource-based assets Source: Jolly (2006)	Maintain and enhance historic structures in your locality. Research & Education

Tourism Contacts/Resources

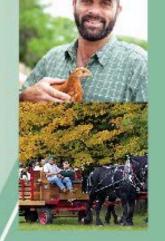
State	Organization	Contact	
Idaho	Idaho Wine Commission	http://www.idahowines.org/default.aspx	
	Visit Idaho Events	http://www.visitidaho.org/events/	
	University of Idaho Cooperative Extension	http://www.uidaho.edu/extension	
	Idaho Department of Agriculture	http://www.agri.idaho.gov/	
	Idaho State Agritourism Statutes	http://nationalaglawcenter.org/wp-	
		content/uploads/assets/agritourism/idaho.pdf	
Montana	Conserve Montana – Agritourism	http://www.conservemontana.org/content/aeros- abundant-montana-directory-to-highlight- agritourism/cnm2D018228EE07BBF8A	
	Montana Department of Tourism –	http://visitmt.com/experiences/food_and_beverage/farme	
	Agriculture Tours	rs_markets/	
	Montana State University Cooperative Extension	http://www.msuextension.org/	
	Montana Department of Agriculture	http://agr.mt.gov/	

Tourism Contacts/Resources

State	Organization	Contact
Nevada	Local Sourcing Restaurant List	http://buynevada.org/businesses/restaurants/
	Local Sourcing Distributors List	http://buynevada.org/businesses/distributors/
	University of Nevada Cooperative Extension	http://www.unce.unr.edu/publications/
	Nevada Department of Agriculture	http://agri.nv.gov/
Utah	Devour Utah	http://www.cityweekly.net/utah/devour- utah/Section?oid=2539715
	Visit Utah Events	http://www.visitutah.com/things-to-do/events/festivals/
4	Utah State University Extension	http://extension.usu.edu/
	Utah State Agritourism Statutes	http://nationalaglawcenter.org/wp-content/uploads/assets/agritourism/utah.pdf
National	Advertised prices nationwide and by region	http://www.marketnews.usda.gov/portal/fv
	Chefs Collaborative network	http://www.chefscollaborative.org
//	Lookup prices (PLUs) list	http://www.plucodes.com
	ATTRA Publications	http://www.attra.ncat.org
	Dude Ranchers Association of America	http://www.duderanch,org
	US Farm Stay Association	http://www.farmstayus.com/







Activity

- Worksheet 2.1: Resource Needs
 - List resource needs for a food tourism enterprise or product
 - What resources do you have already?
 - How will you acquire those you don't have?





Thank you!







Module 3: Understanding the Tourism Market











Overview

- Understand tourist motivations and preferences
- Understand the role food plays in the tourist experience
- Compare food tourist types by food interests and activity levels
- Evaluate food and farm tourism promotional options











Tourists

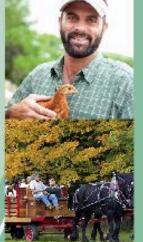
- Tourists seek experiences based on local identity and culture
- Studies show that tourists travel to those destinations that have established a reputation as a place to experiment with quality local products
- The Mediterranean diet was included in UNESCO's list of Intangible Cultural Heritage of Humanity











Tourist Preferences

- Tourist food preferences can vary based on...
 - Destination
 - Seasonality
 - Tourist type
 - Visitor nationality
- Food tourists are considered cultural tourists
 - Educated consumerism
 - Open to new experiences
 - Desire for lifelong learning
 - Independent travel
 - High expectations











Tourist Preferences

- Some tourists treat food consumption as part of the travel experience
- Some tourists use food as a basis for their activities
- Some tourists use food to select the destination itself
- Food choices can be motivated by...
 - Cultural experience
 - Interpersonal relations
 - Excitement
 - Sensory appeal
 - Health concerns









Food Consumer Types

- Neophile
 - More likely to try something new on the menu, something that may not be available at home
- Neophobe
 - Less likely to be as adventurous in their diet











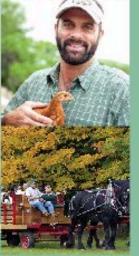
Foodies & Food Tourism

- A foodie is a person with "a long-standing passion for eating and learning about food, but are not food professionals"
- May choose to travel specifically to experience new foods
- Well educated on food, but often just an interest and enthusiasm for learning about food
- Often have high standards for food quality, but may not require expensive or gourmet foods
- Frequent food related festivals and events
 - Motivation to visit, stay at accommodations, and eat at local restaurants









Barr & Levy's Foodie Types

	Foodie Type	Description		
	Whole-Foodier Than	Uses only organic methods growing their own produce and flowers,		
	Thou	slaughters their own meat, uses simple ingredients in their cooking.		
	Squalor Scholar Cook	Does their research and knows the history of their favorite foods a		
		recipes, sticks to traditional recipes, has the academic and historical		
on descriptions		knowledge of food to set them apart from others.		
	Made in Paris	Starts off learning basic cooking techniques in small restaurants and		
		manages to move themselves up the ranks through their connections		
Paris C'est un Dump		to make a living cooking in Paris, a foodie mecca.		
		Ultimate upscale foodie that spends much of their time in expensive		
Sender 1		restaurants, subscribes to important food magazines, and is		
		extremely picky.		
T. Jack	Gorgeous East in Me	Drawn to ethnic and foreign foods, constantly wants to try new things		
		and experience new cultures through food.		
E BILLY	Foodies on Ice	Regards food as artistic material, aims to impress by creating ice		
		sculptures, elaborately decorated cakes, or butter statues.		
	All-American	Small-town foodie that searches out local food and ingredients that		
EXTENSION		deserve attention, constantly attempts to improve their crops and		
ำ๊า๊∖ UtahState Universi	t <u>y</u>	create new dishes.		









- Attendees of a Texas Style Wine, Art, and Food Festival (Chang and Yuan, 2014)
 - Older respondents sought entertainment and escape from their daily routine
 - Younger respondents with bachelor degrees thought attending the festival was an important way to escape from stress
 - Female respondents rated food as a more important factor
 - Respondents with annual income over \$40,000 perceived the escape/event novelty factor as being more important
 - Respondents with incomes of less than \$20,000 rated external socialization as import
 - In general, the lower income group had a greater desire to meet new people, build new relationships and enjoy the arts







- Tourist motivations for attending a Corn Festival in South Carolina (Uysal, Gahan, and Martin, 1993)
 - Escape
 - Excitement and thrills
 - Event novelty
 - Socialization
 - Family togetherness











- Visitors to Charlotte, North Carolina (Green and Kline, 2013)
 - 61.7% considered themselves foodies (7-10 on the scale)
 - 28.2% considered themselves moderate foodies (4-6 on the scale)
 - 10% did not consider themselves foodies (0-3 on the scale).











- A study in South Carolina revealed the presence of three tourist clusters (Shenoy, 2005)
 - Culinary tourist, experiential tourist, and general tourist
 - Culinary tourists purchased local food, consumed local beverages, dined at high-class restaurants, and rarely ate at franchisee restaurants.
 - Culinary tourists are more educated, earned higher incomes, and are characterized by variety-seeking
- A general tourist survey in Charleston, South Carolina, (MacLaurin, Blose, and Mack, 2007)
 - A large percentage of tourists comprised a potentially sizeable food-based market
 - Many consumers with a large amount of interest across a wide variety of food tourism activities







tahStateUniversity

Western Food Tourism

- Colorado Agritourism Study
 - 895 survey responses 2005-2006
 - Age 46 years on average
 - Income 37% earned incomes over \$75,000 per year
 - Marital status 73% of travelers were married
 - Family composition -
 - 28% were young couples, no children
 - 42% were families with children
 - 90% identified themselves as White
- Grouped respondents into five "tourist types"











Colorado Agritourism Study

- Group 1: The Loyal Colorado Enthusiasts 13% of travelers
 - Parents of older children and couples who return often based on their previous agritourism experiences
 - Largest share of participants in outdoor recreation on farms and ranches during the summer
 - Likely to camp and stay within a few hundred miles of home
 - Participate in a diverse set of agritourism activities
- Group 2: Family Ag Adventurers 17% of travelers
 - Most promising agritourism visitors
 - Plans their travels around specific agritourism outings and participates in unplanned activities several times per year
 - Middle-income, often traveling with children in bigger parties
 - Willing to visit local enterprises and travel long distances to reach a variety of agritourism destinations
 - Travel primarily in summer and fall







Colorado Agritourism Study

- Group 3: In-State Explorers 30% of travelers
 - Coloradans who explore the state by car on short jaunts
 - Don't travel with agritourism activities in mind, but participate in unplanned activities
 - Travel frequently and are from upper-middle income households
 - Many planned to travel in the subsequent year and participate in some agritourism
 - The culinary events in which they currently participate may be the best means to extend their visitation and spending into other agritourism experiences
- Group 4: The Out-of-State Activity Seekers 4% of travelers
 - No plans to visits the following year
 - More likely to spend longer trips in hotels, resorts, second-homes or bed and breakfast accommodations
 - Primarily mid- to upper-middle class individuals, traveling in smaller parties (even though they are parents)
 - More likely to engage in agritourism as a secondary or unplanned activity
 - Enjoy participating in numerous outdoor activities, and report some of the highest interest across all agritourism activity groups
 - Travel is spread more evenly across all four seasons, relative to other





Colorado Agritourism Study

- Group 5: The Accidental Tourists 36% of travelers
 - Coming for non-recreational business,
 educational, or convention activities
 - Not seeking agritourism activities











Colorado Study Results

- Larger groups participating in agritourism are more likely to plan their trip itinerary (and include agritourism activities) prior to travel)
- Groups used local and business websites (not national websites) to plan their holiday
- Tourists attracted to an area by its natural amenities tend to participate in agritourism activities in these areas
- Need to link marketing for agritourism enterprises to natural parks, forests and recreation areas, such as representing them in park brochures and at visitor centers
- Private enterprises should describe the natural aspects of their operations in their marketing materials











Western Food Tourism

- Utah Tourism Study
 - In-person survey of tourists in Utah (coming from/going to ID, NV, CO, MT), Summer 2013/Winter 2014
 - Random sampling technique, 700 surveys completed
 - 12 sites at gateways, national parks, airports, ski areas, convention and visitor centers
- Create a profile of tourist types
 - What types of people visit (demographics, attitudes, interests, etc.)
 - What is the reason for their visit and who travels with them?
 - What types of experiences and activities do they seek?
 - How important are food related experiences?
 - How do they research and plan their travel?
 - How long do they stay and where do they stay?











Sample Demographics

- 68% married
- 52% male
- College degree 31%, graduate degree 40%
- 49% full time employed, 29% retired
- 84% White, 5% Asian, 4% Hispanic
- Average income in 2012 \$103,000
- Average age 50 years
- Length of stay average of 10.6 days
- Average party size of 2.9 adults and 1.6 children











Travel Specifics

- Travel reason
 - Business 1%
 - Visiting family/friends 5%
 - Visiting national parks 9%
 - Outdoor activities 43%
 - Visiting cultural/heritage sites 24%
 - Special events/festivals2%
 - Agritourism activities 9%
 - Passing through 6%

- Research/booking resource
 - Internet/website 41%
 - Brochure/booklet 10%
 - Recommendation from family/friend 3%
 - Tradition 32%
 - Other 14%











- Organization membership (18%)
 - Slow Food = 10%
 - Dining Club = 11%
 - Coop Grocer = 22%
 - Wine/Beer Club = 27%
 - Cooking Club = 8%
 - CSA = 15%
 - Other = 7%
- Dietary restrictions
 - Yes 15%











Activities At Home & While Traveling

At Home

While Traveling

1				
A	Buy locally sourced food:	3.52(1.16)	Buy locally sourced food:	2.80(1.19)
	Shop at farmer's markets:	3.08(1.14)	Shop at farmer's markets:	2.46(1.16)
	Participate in a CSA:	1.73(1.11)	Visit local farms:	1.77(0.95)
	Buy organic certified produce:	2.79(1.19)	Spend the night at local farms:	1.28(0.65)
	Visit local farms:	2.05(1.14)	Participate in agritourism:	1.60(0.88)
	Cook at home:	4.29(0.80)	Cook at accommodations:	2.82(1.31)
	Try new food items or recipes:	3.86(0.91)	Try new food items or recipes:	3.48(1.06)
	Buy food you don't recognize:	2.93(1.19)	Try local recipes:	3.12(1.19)
	Eat ethnic foods:	3.57(1.05)	Buy food items as souvenirs or	2.72(1.13)
	Attend beer/wine festivals:	2.39(1.27)	gifts:	2.97(1.23)
	Food canning:	1.80(1.11)	Seek out local sourcing	2.22(1.28)
	Beer/wine making:	1.35(0.88)	restaurants:	3.67(1.33)
	Home gardening:	2.62(1.50)	Attend beer/wine festivals:	2.38(1.77)
	Composting:	2.14(1.49)		
	Recycling:	4.35(1.07)		



Other:

Rating scale of 1-5 (Never to Always)

3.75(1.89)









Activities/Interests

Behavior At Home	Behavior While Traveling	
Local Foods	Food Tourism	
Shop at farmers' markets	Try new foods	
Buy organic produce	Try local recipes	
Visit farms	Buy food-related gifts	
Food Experiences	Agritourism	
Try new foods/recipes	Spend a night at a farm	
Eat ethnic foods	Agritourism activities	
Try new/unknown produce	Visit farms	
Do it Yourself	Local Foods	
Gardening	Buy local foods	
Canning/Preserving	Cook at accommodations	
Composting	Shop at farmers' markets	
Food Connections		
Recycling		
Cook at home		
Buy local foods		











Primary Tourist Groups

- Family Vacation 50% of sample
 - Younger (mid 40s), less educated (in comparison) adults, with children, less likely married. Spend fewer days on vacation and are primarily involved in outdoor recreation on an annual trip. Use multiple sources for trip information and tend to do more cooking, but seek local foods and spend a lot on food.
- Utah Pilgrimage 8% of sample
 - Older (mid 50s), married individuals traveling with older child, staying for a month and spending little on food, but seeking some food experiences and involved in food clubs. Visiting heritage sites and family primarily. Information from internet and past experience used in trip planning.







Primary Tourist Groups

- Couples Vacation 11% of sample
 - Married, highly educated, middle-aged couples (upper 40s), seeking food and drink experiences with high food spending. Traditional annual two week trip, use internet for secondary information, visiting heritage sites and outdoor recreation. More heavily involved in food related activities while traveling and at home.
- Random Vacation 25% of sample
 - Older (mid 50s), married, more likely male on a 7 day vacation. Traveling with older child in various activities (outdoor recreation, heritage sites, agritourism). Primarily use the internet for trip information. Food spending lower and not all that involved in food related activities while traveling. They just need to eat!







Utah Study Results

- Overall highly educated, married, seeking outdoor recreation, cultural/heritage sites, and agritourism activities
- Good potential (20% of sample)
 - Couples Vacation (Foodies with funds)
 - Utah Pilgrimage (Cultural/local foods)
 - Family Vacation should not be overlooked
- Internet-based promotional programs most useful
- Quality experience essential repeat visits
- Link marketing for food tourism to outdoor recreation destinations
 - Promote in park and resort brochures, visitor centers, etc.
 - Describe "proximity" to primary destinations in all materials
 - Heritage trail and food tourism linkages needed











Tourism Promotion Options

- Brochures, flyers, etc.
 - Leave with hotels, visitor centers, parks, resorts
- Business website
- Memberships
 - Chambers of commerce, visitor/convention bureaus, local food organizations, etc.
- Other publications
 - Websites
 - State/regional tourism, local food, trip/vacation booking
 - Tourism publications
 - Local, national, international
 - Heritage/scenic trail maps
 - Attraction publications
 - Parks, resorts, etc.











Tourist Information Centers (TIC)

- Tourist Information Centers (TIC) can help you to reach customers
 - Know how tourists arrive (major hubs/airports)
 and what activities they seek
- Las Vegas Visitor Information Center
- Greater Las Vegas Visitor Center (Laughlin)
- Nevada Welcome Centers (Boulder City, Mesquite, Wendover)
- Utah Welcome Centers (Brigham City, Echo, Salt Lake City, Jensen, Thompson Springs, St. George)







UtahStateUniver

Promotional Resources

3	State	Organization	Туре	Contact
	Idaho	Idaho Preferred		idahopreferred.com
		Visit Idaho	Tourism	www.visitidaho.org
ĺ		Idaho Travel Guide	Tourism	www.idahobeautiful.com
	Nevada	Nevada Grown	Local food	nevadagrown.com
		Grow your Own	Local food	growyourownnevada.com
		Nevada Tourism Department	Tourism	www.travelnevada.com
	Utah	Utah's Own	Local food	utahsown.com
		Local First Utah	Local food	localfirst.org
		Utah Tourism Department	Tourism	www.utah.com
	National	Slow Food	Local food	slowfoodutah.com
		Agritourism World	Local food	www.agritourismworld.com
T		Brand USA	Tourism	www.thebrandusa.com
si	t <u>y</u>	Discover America	Tourism	http://www.discoveramerica.com







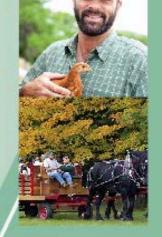
Tourism Research & Statistics

- Idaho Commerce, Tourism Research
 - http://commerce.idaho.gov/tourismresources/tourism-industrydevelopment/research
- Utah Tourism Industry Association,
 Research and Information
 - http://utahtourism.org/?page_id=9
- Travel Nevada, Visitor Statistics
 - http://travelnevada.com/industry/visitorstatistics









Activity

- Worksheet 3.1: Customer Segmentation
 - For each food tourism enterprise or product define the target consumer (tourist)
 - List what needs and preferences they have regarding your activities/products









Activity

- Worksheet 3.3: Promotion Plan
 - For each food tourism enterprise or product define a tourism focused promotional strategy





Thank you!





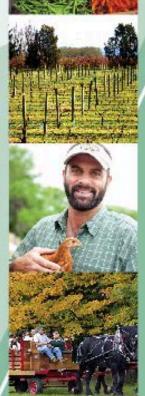


Module 4: Producing and Selling Value-Added Products









Overview

- Determine whether or not their food products are considered "processed"
- Increase their understanding of the laws and regulations that apply to food product processing at both the state and federal level
- Practice proper food safety and sanitation procedures during the processing of food products
- Create FDA-compliant food labels for their products









Value-Added Foods

- Local, organic, vine-ripened, or specialty crops
- "Gourmet" foods
 - Jams, jellies, preserves
 - Pickled vegetables
 - Hot sauces, salsas, tapenades
 - Herbed oils and vinegars
- Must consider regulatory, safety and labeling issues











Unprocessed Produce

- Regulations vary by State
- Idaho State Department of Agriculture and Department of Health and Welfare
- Nevada State Department of Agriculture
- Utah State Department of Agriculture







Must Register to Sell Processed Produce











Processed Foods Include: Peeled, Cut, or Washed Produce











Processed Foods Include: Cut Leafy Greens











Processed Foods Include: Dried or Dehydrated Produce



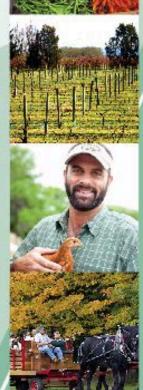








Processed Foods Include: Packaged Fresh Herbs















Processing Options: Cottage Kitchen

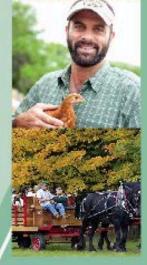
- Home kitchen, certified by state agency
- Program regulations and availability vary by state
- Pro: Less expensive than renting or building commercial kitchen space
- Con: Limited types of food can be prepared











Cottage Production: Western U.S.



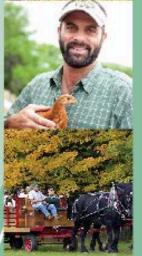
Green – Formal Cottage Food laws; Yellow – Formal legislation pending; Red – No formal Cottage Food law











Processing Options: Contract Packaging – "Co-Packers"

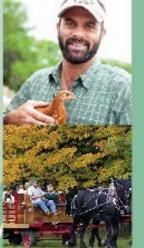
- Certified food production facilities
 - Will package your product in their downtime
- Each co-packer has different requirements, capabilities & minimum runs
- You must license your business, but do not need to register with the FDA











Processing Options: Certified Food Establishments

- Commercial facility, certified by local health department
 - Incubator kitchens, restaurant kitchens
- Potentially Hazardous Foods can be produced, but must be approved
- On-Farm certified kitchens may be exempt from some FSMA record keeping requirements











FSMA Exemptions: Certain On-Farm processing

- "Standards for the Growing, Harvesting, Packing, and Holding of Produce for Human Consumption"
- New FDA definition of "Farm"
- Harvesting
 - Includes trimming, sifting, shelling, and washing
- Drying/Dehydrating
- Packaging and Labeling RACs











Value-Added Foods

- Local, organic, vine-ripened, or specialty crops
- "Gourmet" foods
 - Jams, jellies, preserves
 - Pickled vegetables
 - Hot sauces, salsas, tapenades
 - Herbed oils and vinegars
- Must consider regulatory, safety and labeling issues









Safety Issues to Consider

- How will you clean & sanitize?
- How will you prepare or cook your product to minimize safety risks?
- How will you package/protect your product?
- How will you store & display your product?









Important Definitions

- Clean: Free of visible dirt or debris
 - Applies to whole, unprocessed foods
- Sanitary: Free of pathogenic bacteria
 - Applies to processed foods & food contact surfaces
- Sterile: Free of all viable bacteria
 - Commercial sterility 99.99% sterile











Safety IssuesKitchen Sanitation

- Sanitize at start of production
 - 1 tbsp unscented bleach <u>maximum</u> per 1 gallon water (200 ppm)
 - Check sanitizer with test strips







Common Sanitizer Test Strips



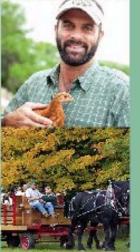












Safety Issues Kitchen Sanitation

- Sanitize at start of production
 - 1 tbsp unscented bleach <u>maximum</u> per 1 gallon water (200 ppm)
 - Check sanitizer with test strips
- Wipe up spills, sanitize during production
 - Check / refresh sanitizer every hour
- Clean and sanitize at end of production

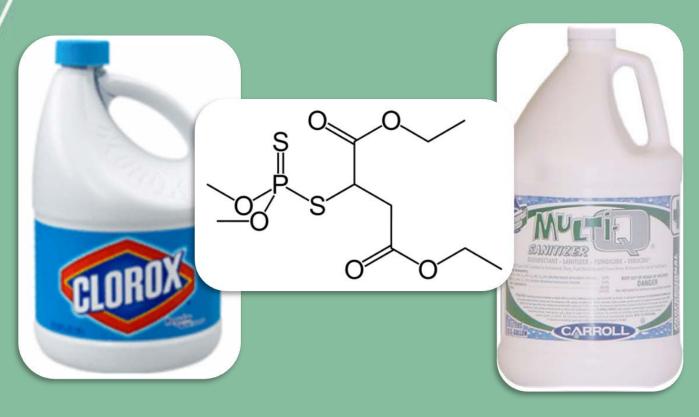






Chemical Contaminants











Chemical Contaminants











Physical Contaminants









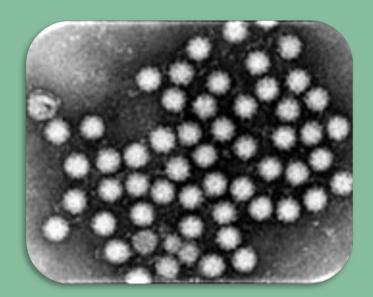


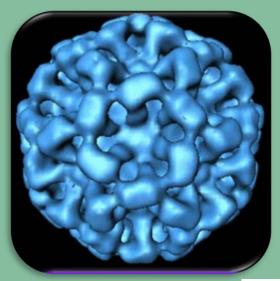




Biological Contaminants

 Viruses – must infect a living host cell before reproducing, but can survive without a host











Biological Contaminants

Fungi – multiply and grow without a host

















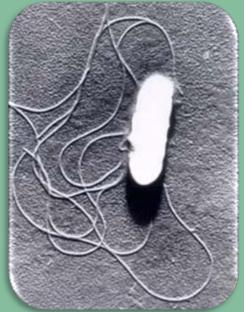


Biological Contaminants

Bacteria – multiply and grow without a host

















Bacterial Growth & Survival

Food **Acid Temperature Time** Oxygen Moisture









Survival: Moisture (Aw)

- Bacteria must have water available
- Aw is a measure of how much water is available, not how much is present
- Add sugar or salt to lower Aw
- Remove water to lower Aw











Water Activity (A _w)	Examples of foods in this range
1.00 – 0.95	Fresh produce & meat; canned produce & meat; milk; juice; bread
0.95 – 0.91	Cured meats (ham); semisoft & some hard cheeses (Swiss, young cheddar, provolone); moist cakes
0.91 – 0.87	Hard or aged cheese; sponge cakes; margarine; most fermented sausage
0.87 – 0.80	Syrup; flour; fruit juice concentrate; high-sugar cakes
0.80 – 0.75	Jam & marmalade; marshmallows; beef jerky
0.75 – 0.65	Soy sauce; molasses; jelly; nuts; oats; peanut butter;
0.65 – 0.60	Honey; caramels; dried fruit; toffee
0.50 or below	Spices; crackers; cookies; pasta; powdered milk
	P - 11 - 12 - 11 - 11 - 11 - 11 - 11 - 1











Survival: Food

- Bacteria have specific nutritional requirements
- Food must provided that is a ready source of nutrients
- We can limit growth of pathogenic or spoilage bacteria by adding a "Good" bacteria









Survival: Atmosphere

- Aerobic = require oxygen
- Anaerobic = oxygen is toxic
- Facultative = anaerobes that can tolerate some oxygen
- Places where no oxygen is present?





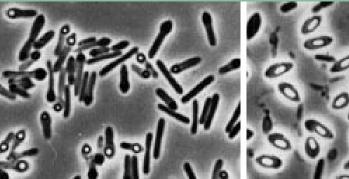


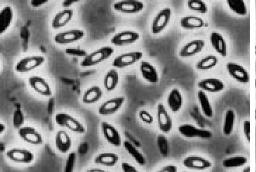


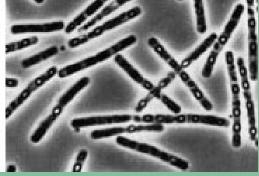


Growth: Acidity

- Acid slows the growth of some bacteria
- Acid prevents germination of bacterial spores
- Vinegar, citrus juices, tomatoes







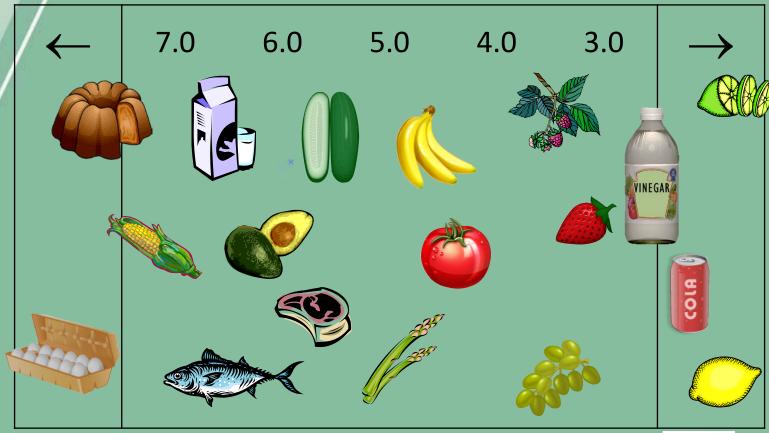






Most foods are between 7.0 (neutral) and 3.0 (acidic)



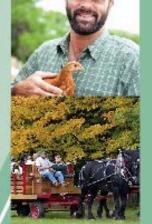












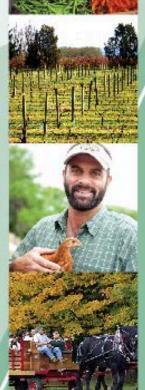
Growth: Temperature

- Each bacteria prefers a different temperature range
- The temperature danger zone: 40 − 140F
- Heat can destroy, cold only preserves









FDA – "Exempt" Products

- Refrigerated, frozen, or Aw < 0.85
- Labeling: 21CFR §101
- Processing: 21CFR §110
- Standards of Identity: 21CFR §135 to 169
- FDA Food Processor registration required









Examples of "Exempt" Products

- Candies and syrups
- Dry mixes, spices/herbs, and flavorings
- Roasted nuts
- Dehydrated fruits and vegetables
- Dried pasta and noodles
- Full-sugar jams and jellies
- Some BBQ sauces











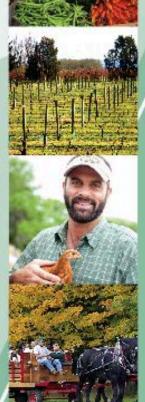
FDA – Acid Food Regulations

- Canned or bottled foods with a natural pH < 4.6
 - Should not contain more than 10% low acid ingredients
- Labeling: 21CFR §101
- Processing: 21CFR §110
- Standards of Identity: 21CFR §135 to 169
- FDA Food Processor registration required









Examples of Acid Foods

- Canned tomatoes and tomato products
- Canned fruits
- Flavored vinegars
- Vinegar and oil dressings
- Low-sugar fruit preserves
- Fermented foods (no other acid added)











FDA – Acidified Food Regulations

- Natural pH > 4.6, but added acid drops pH
 - Require Process Authority letter & regular filings
- Labeling: 21CFR §101
- Processing: 21CFR §114
- Standards of Identity: 21CFR §135 to 169
- FDA Food Processor registration required
- FDA Acidified Food Processer registration required







Examples of Acidified Foods

- Salsa and spaghetti sauces
- Most hot sauces and BBQ sauces
- Worcestershire sauce
- Pickled vegetables
- Mayonnaise and salad dressing
- Some vegetable juice blends, Clamato juice











FDA – Acidified Foods Guidance

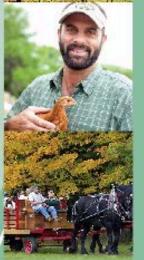
- Draft Guidance for Industry: Acidified Foods (September 2010)
 - Definitions, decision trees, and example calculations
- Form FDA 2541 Food Canning Establishment Registration
- Form FDA 2541a Process Filing for Acidified Foods











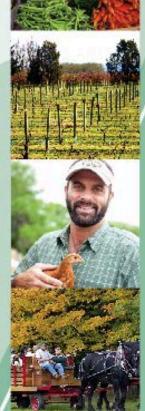
FDA – Low Acid Food Regulations

- Natural pH > 4.6, no acid added
 - Require Process Authority letter & regular filings
- Labeling: 21CFR §101
- Processing: 21CFR §113
- Standards of Identity: 21CFR §135 to 169
- FDA Food Processor registration required
- FDA Low Acid Food Processer registration required









Examples of Low Acid Foods

- Canned vegetables
- Canned beans and legumes
- Canned or bottled olives
- Vegetable juices
- Canned vegetarian soups and broth
- Evaporated milk
- Canned tuna, clams, and shrimp











Value-Added Foods

- Local, organic, vine-ripened, or specialty crops
- "Gourmet" foods
 - Jams, jellies, preserves
 - Pickled vegetables
 - Hot sauces, salsas, tapenades
 - Herbed oils and vinegars
- Must consider safety, regulatory and labeling issues





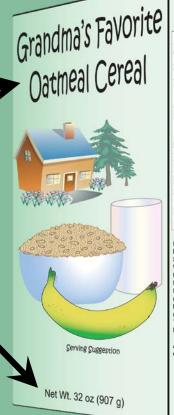


Required Label Components

Primary Display Panel

Statement of Identity

Net weight statement



| Nutrition Facts | Survey | S

Modified corn starch, Sugar, Salt, Tripotassium phosphate, Wheat starch, Vitamin E (mixed tocopherois, added to preserve freshness), Calcium carbonate, Iron, Zine, Sodium ascorbate (Vit C), Niacin, Pyridoxine hydrochloride (B6), Palmitate (Vit A), Riboflavin (Vit B2), Thiamin mononitrate (Vit B1), Folic acid, Vit B12, Vit D3.

Allergen Information: contains wheat.

Manufactured By: Grandma's Cereal, Inc 1234 Any Street City, State, ZIP









Statement of Identity

 Many foods have a legally established name that must be used [CFR21 §101.3]









Standards of Identity exist for:

§ 131 Milk & cream

§ 133 Cheese

§ 135 Frozen desserts

§ 136 Bakery products

§ 137 Cereal flours

§ 139 Macaroni & noodles

§ 145 Canned fruit

§ 146 Canned fruit juice

§ 150 Jellies & preserves

§ 152 Fruit Pies

§ 155 Canned vegetables

§ 156 Vegetable juices

§ 158 Frozen vegetables

§ 160 Eggs & egg products

§ 161 Fish & shellfish

§ 163 Cacao products

§ 164 Tree nuts & peanuts

§ 165 Beverages

§ 166 Margarine

§ 168 Sweeteners & syrups

§ 169 Dressings &

flavorings













- Many foods have a legally established name that must be used [CFR21 §101.3]
- All others must use "common or usual name"
- Other requirements include:
 - Form of food (e.g. sliced, cubed, crushed)
 - "Imitation" if lower protein, vitamins,
 minerals
 - "___% Juice" for any drink showing fruit or vegetables on the label









Required Label Components



Nutrition Facts
Series Use 14 to 0 gr to 10 29
Series Use 14 to 0 gr to 10 29
Series Use 14 to 0 gr to 10 29
Series Use 14 to 0 gr to 10 29
Series Use 14 to 0 gr to 10 29
Series Use 14 to 10 gr to 10 g

Modified com starch, Sugar Salt, Tripotassium prospi Wheat starch, Vitamin Emboration of Calcium carbonate, Iron, Zinc, Sodium acrobnate, Iron, Zinc, Sodium acrobnate, Iron, Zinc, Sodium acrobnate, Iron, Zinc, Sodium ascorbate (Vit C), Niacin, Pyridoxine hydrochloride (BB), Palmitate (Vit A), Riboflavin (Vit B2). Thaimin mononitrate (Wit B1). Folic acid, Vit B12, Vit D3.

Allergen Information: contains wheat.

Manufactured By Grandma's Cereal, Ir 1234 Any Street City, State, ZIP Information Panel

Nutrition Facts panel

Ingredient statement

Producer name & address











Ingredient Statement

- Ingredients must be listed in order by weight
- Must list function of any preservatives
 - "Ascorbic Acid to promote color retention"
- "Spices", "Natural Flavor" or "Artificial Flavor" can be grouped to save space
 - Except: onion/garlic/celery items, salt, and MSG
- Certified colors must be specified
 - "Red 40" or "FD&C Red 40"











Allergen Statement

Nutrition Facts

Ingredients: Enriched flour (wheat flour, malted barley, niacin, reduced iron, thiamin mononitrate, riboflavin, folic acid), sugar, partially hydrogenated cottonseed oil, high fructose corn syrup, whey (milk), eggs, vanilla, natural and artificial flavoring, salt, leavening (sodium acid pyrophosphate, monocalcium phosphate), lecithin (soy), mono- and diglycerides.

Any Cookie Company College Park, MD 20740 (1) Include the name of the food source in parenthesis following the common or usual name of the major food allergen in the list of ingredients in instances when the name of the food source of the major food allergen does not appear elsewhere in the ingredient statement for another allergenic ingredient.



(2) Place the word "Contains," followed by the name of the food source from which the major food allergen is derived, immediately after or adjacent to the list of ingredients, in a type size that is no smaller than that used for the ingredient list.

Nutrition Facts

Ingredients: Enriched flour (flour, malted barley, niacin, reduced iron, thiamin mononitrate, riboflavin, folic acid), sugar, partially hydrogenated cottonseed oil, high fructose corn syrup, whey, eggs, vanilla, natural and artificial flavoring, salt, leavening (sodium acid pyrophosphate, monocalcium phosphate), lecithin, monoand diglycerides.

Contains: Wheat, Milk, Egg, and Soy.

Any Cookie Company College Park, MD 20740







Nutrition Labeling Is Changing...





Helvetica Regular 8 point with 1 point of leading

3 point rule =

8 point Helvetica Black with 4 points of leading

1/4 point rule centered = between nutrients (2 points leading above and 2 points below)

8 point Helvetica Regular with 4 points of leading

8 point Helvetica Regular, 4 points of leading with 10 point bullets.

	Nutri			cts	K
	Serving Size 1 cup (228g) Serving Per Container 2				
	Amount Per Serv				7
	Calorina 260	Ca	lories from	Fat 120	
	% Daily Value*				
>	Total Fat 13g 20%				
	Saturated Fat 5g 2			25%	
	Trans Fat 2g				4
	Cholesterol			10%	
-	Sodium 660m	-		28%	
		_	do.	10%	
	Total distribution of the control of				
	Dietary Fiber	ug		0%	۰
١	Sugara 5g			_	
	Protein 5g				Ι.
	Vitamin A 4%		Vitom	in C 2%	
		÷	Iron 4		
7	Calcium 15%	•	11-0-11-1		
	Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs:				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Calories:	2,000	2,500	
	Total Fet	Less then	85g	80g	
	Sal Fet	Less than	20g	26g	
	Chalasterol Bostium	Less than	300mg 2,400mg	300mg 2,400mg	
	Total Carbohydrale		300a	375g	
	Diotary Fiber		25g	30g	

 Franklin Gothic Heavy or Helvetica Black, flush left & flush right, no smaller than 13 point

7 point rule

6 point Helvetica Black

 All labels enclosed by 1/2 point box rule within 3 points of text measure

1/4 point rule

Type below vitamins and minerals (footnotes) is 6 point with 1 point of leading











Nutrition Labeling

Reference Amounts Customarily Consumed

§ 101.12

21 CFR Ch. I (4-1-01 Edition)

TABLE 2—REFERENCE AMOUNTS CUSTOMARILY CONSUMED PER EATING OCCASION: GENERAL FOOD SUPPLY1,2,3,4

Product category	Reference amount	Label statement ⁵
Bakery products: Biscuits, croissants, bagels, tortillas, soft bread sticks, soft	55 g	piece(s) (g)
pretzels, corn bread, hush puppies. Breads (excluding sweet quick type), rolls	50 g	piece(s) (g) for sliced bread and distinct pieces (e.g., rolls); 2 oz (56 g/ inch slice) for unsliced bread
Bread sticks—see crackers		
Toaster pastries—see coffee cakes Brownies	40 g	piece(s) (g) for distinct pieces; fractional slice (g) for bulk
Cakes, heavy weight (cheese cake; pineapple upside- down cake; fruit, nut, and vegetable cakes with more than or equal to 35 percent of the finished weight as fruit, nuts, or vegetables or any of these combined).	125 g	
Cakes, medium weight (chemically leavened cake with or without icing or filling except those classified as light weight cake; fruit, nut, and vegetable cake with less than 35 percent of the finished weight as fruit, nuts, or vegetables or any of these combined; light weight cake with icing; Boston cream pie; cupcake; eclair; cream puff)?	80 g	piece(s) (g) for distinct pieces (e.g., cupcake); fractional slice (g) for large discrete units
Cakes, light weight (angel food, chiffon, or sponge cake without icing or filling) ^s .	55 g	piece(s) (g) for distinct pieces (e.g., sliced or individually packaged products); fractional slice (g) for large discrete units

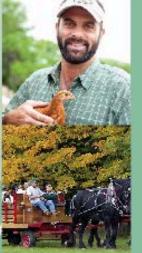
Continues on for 6 pages...











Small Business Exemption

- Very small companies (< \$50,000 total sales or fewer than 100 employees) do not even need to file with FDA
- ANY NUTRITION CLAIMS VOID THIS EXEMPTION

SALES IN FOOD	TOTAL SALES (FOOD & NON-FOOD)	STATUS
\$50,000 or less	\$500,000 or less	EXEMPT
\$50,000 or less	\$500,001 or more	EXEMPT
\$50,001 or more	\$500,000 or less	EXEMPT
\$50,001 or more	\$500,001 or more	NOT EXEMPT











Types of Health Claims

- Nutrient content claims
 - Specific guidelines for different types of food
- Approved health claims
 - General scientific consensus has been reached
 - Must put in context of whole diet
- Qualified health claims
 - No scientific consensus, but some evidence
 - Stricter wording requirements











Nutrient Content Claims

- Content Claims [21CFR§101.60-62]
 - "Free", "Low", "Reduced/Less"
- Relative Claims [21CFR§101.13(j)]
 - "Light", "Reduced" or "Added", "More" or "Less"
- Other Claims
 - "High", "Rich In" or "Excellent Source of"
 - "Good Source", "Contains" or "Provides"
 - "Lean" and "Extra Lean"
 - "Modified"
 - "Fiber" claims





Nutrition Initiative

Enforcement Letters



The product makes claims such as, "Healthy Options," but has more fat than is allowed in products labeled as "healthy."

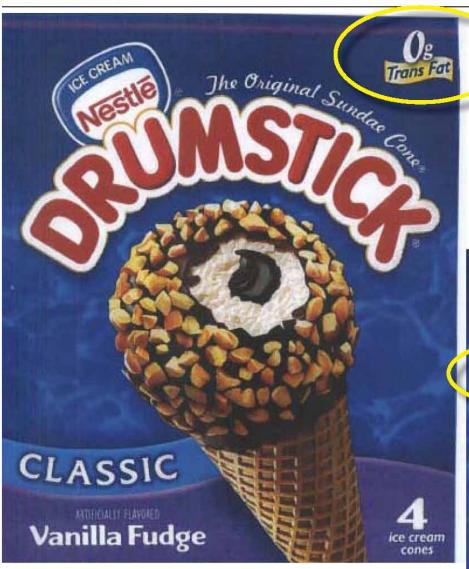


Kenfs Foods, Inc.

Nutrition Initiative

Enforcement Letters





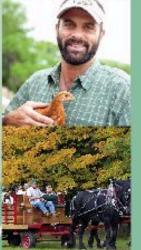
The front panel shows that the product has no trans fat, but it doesn't have a disclosure statement to alert consumers that the product has significant levels of saturated fat and total fat.

Colories 340		om Fat 17
	- ×	Bully Value
Total Fat 19g		299
Saturated Fat	100	509
Trans Fat 0g		
Cholesterol 2	(Omg	47
Sodium 100m		49
Total Carboh	ydrate 3	6g 129
Dietary Fiber k		
Sugars 23g		
Protein 6g		
Vitamin A 4%	• Vit	amin C Da
Calcium 8%	-	in 2%
Percent Daily Wilve- calcate diet. Your da or lower deporating Cator Total Pat Less ! Sel Fat Less ! Chelesters! Less ! Sodium Less !	dy values ma on your cator see 2,000 ban 05g fuer 20g	y be higher to meets: 2,800 86g alsq g 300mg

Dreyer's Grand Ice Gream, Inc.







Organic Labeling

- Crop, livestock, or food product certification
- USDA does not require certification for organic sales <\$5000 / year
- Specific requirements for how it is stated on the label















"100% Organic"

- Must contain only organic ingredients (not including water and salt)
- Must list certifying agency information
- Can use USDA and/or certifying agency seal













"Organic"

- Must contain 95% organic ingredients
- Cannot contain sulfites
- Must list certifying agency information
- Can use USDA and/or certifying agency seal













"Contains Organic

- Must contain 70% organic ingredients
- Cannot contain sulfites (except wine)
- Must list certifying agency information
- Can use certifying agency seal, but not USDA













Natural Labeling

- No specific legal definition from FDA
 - USDA has stricter requirements
- Cannot contain artificial or synthetic ingredients
 - Colors
 - Flavors
 - Preservatives









Activity

- Worksheet 4.1: Potential Food Safety Risks
 - Choose a product you produce or plan to produce
 - For each stage of the production process identify potential food safety risks for each risk type
 - Biological, chemical, and physical





Hazard/Risk Phase	Biological	Chemical	Physical
Production	Livestock, wild animals, improperly composted manure, natural soil organisms, and contaminated irrigation water	Residues from previous use history or current pesticide and fertilizers	Stone and sticks or "trash" from previous crops, other debris in compost
Harvest	Improper worker hygiene; dirty bins, containers and harvest equipment; domestic and wild animals present	Equipment leakages and cleanser residues present	Poorly maintained or damaged/worn-out equipment, workers' personal articles (pens, etc.)
Postharvest	Contaminated wash/rinse or cooling water, including ice; improper worker hygiene; dirty bins, containers, and sorting equipment; staging areas next to cull or compost piles or livestock areas	Contaminated wash/rinse or cooling water, including ice; residues from pest control in and around packing shed/buildings; residues in bins and containers	See above
Processing	Improper canning temperature or pH, flies or other vermin around drying racks, employee hygiene	Residues and water or other additives used in processing	Damaged containers and equipment, including jars and packaging materials; fragments from walls or ceilings; employees' personal items
Storage	Vermin such as mice or insects; improper temperatures or humidity, dirty bins and other types of cross-contamination	Residues from cleansers and pesticides used to control vermin, residues or cross-contamination from other materials stored in the same facility	Damaged bins, fragments from walls or ceilings, vermin nesting materials
Transportation	See above	Residues from previous transport of chemical materials in vehicles	Damaged ballets, bins, and containers; fragments from vehicles
Marketing	Employee and consumer handling, improper sampling hygiene, improper temperature control; poor worker hygiene, dirty equipment, cross-contamination, improper cooking time or temperature, poor kitchen sanitation	Sanitizing and cleaning residues on display and sampling equipment; residues on equipment food, and additives	Damaged display equipment; employees' or customers' personal items, including coins; wall or ceiling fragments, employee personal items
Consumer	Inadequate or improper consumer education such as "refrigerate after opening" and "discard date" advisories	Inadequate or improper consumer education such as "wash before consuming advisories	Inadequate or improper consumer education such as "may contain pits or shell fragments" warnings

Example Risk Overview



Thank you!











USDA FSIS – Meat Regulations

- All products containing > 3% raw or > 2% cooked meat by weight
- Beef, Pork, Lamb, Goat
- Labeling requirements: 9CFR §317
- Processing requirements: 9CFR §318
- Standards of Identity: 9CFR §319









USDA FSIS – Poultry Regulations

- All products containing > 3% raw or > 2% cooked poultry by weight
- Chicken, Turkey, Goose, Duck, Guinea,
 Squab
- Labeling requirements: 9CFR §381
 Subpt. N
- Processing requirements: 9CFR §381
 Subpt. O
- Standards of Identity: 9CFR §381 Subpt.









FSIS and FDA – Eggs & Egg Products

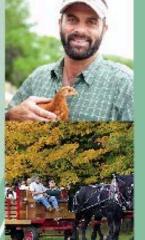
- USDA FSIS regulations
 - Processing and Grading: 9CFR §590
- FDA regulations
 - Labeling: 21CFR §101
 - Storage and Transport: 21CFR §115 and 118
 - Standards of Identity: 21CFR §160











FDA – Dairy Regulations

- Labeling: 21CFR §101
- Processing: Pasteurized Milk Ordinance and 21CFR §110
- Standards of Identity: 21CFR §131 to 135
- FDA Food Processor registration required









FDA – Bottled Water Regulations

Labeling: 21CFR §101

Processing: 21CFR §110

Standards of Identity: 21CFR §129

FDA Food Processor registration required

UDAF Food Establishment registration required











FDA – Juice Regulations

- Labeling: 21CFR §101
- Processing: 21CFR §113 (low acid), §114 (acidified), or §120 (all others)
- Standards of Identity: 21CFR §146 and 156
- FDA Food Processor registration required









FDA – Fish and Fish Products

Labeling: 21CFR §101

Processing: 21CFR §123

Standards of Identity: 21CFR §161

FDA Food Processor registration required









FDA – Dietary Supplements

Labeling: 21CFR §101

Processing: 21CFR §111

- No Standards of Identity for supplements
- FDA Food Processor registration required







Module 5: Assessing Enterprise Feasibility











- Understand the elements of economic feasibility analysis
- Evaluate market size and estimate volume
- Calculate cost of production or service
- Use break-even analysis to identify minimum required pricing and volumes
- Compare pricing approaches and select appropriate pricing









Steps in Economic Feasibility Analysis

- Assess potential demand (volume and pricing)
- Estimate cost of production
- Examine break-even volume and pricing
- Choose a pricing approach











Assess Potential Demand

- Target consumers who have a need for the product/service
- Conduct market research
 - Estimate available customer base and purchase amount
 - Estimate feasible range of prices (cover production costs)
 - Assess consumer sensitivity to pricing
- Market research methods
 - Survey existing customers
 - Conduct product/pricing trials
 - Ask fellow providers competitors
 - Use secondary data resources
 - USDA, marketing firms, Extension









Estimating Market Size - Farm Tourism Examples

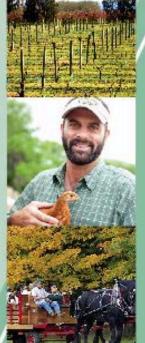
- Local Farm Tourism
 - Local customers traveling for a day or weekend outing, such as in-state or less than 100 miles away
 - U-pick strawberry operation example
- Destination Tourists
 - Visitors on a long vacation to specific destinations
 - National and state parks, heritage sites, etc.
 - Farm tourism venture example











Local Tourists

- If selling items directly from farm/ranch
 - Consider how far you can expect customers to travel
- The USDA Forest Service's National Survey on Recreation found the average distance traveled to visit a farm in 2000 was 80 miles
- Western operators find their consumers travel over 75 miles to participate in Upicks, farm festivals, and related farm activities
 - No other alternatives exist in their metro area











Local Tourists

- Potential number of customers
 - Demographics and population size in the area is an important part of estimating demand
 - Demographics from the most recent U.S. Census can be searched online by state and by zip code -http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
 - Ages, household and family size, income, ethnicity, etc.
 - All of which can provide information as to the characteristics of potential customers in the surrounding area
- Potential purchase size
 - Examining current and historical consumption patterns can be helpful
 - Average annual consumption levels for hundreds of foods in the US can be found on USDA's Economic Research Service (USDA-ERS) website - http://www.ers.usda.gov/data-products/food-availability-(per-capita)-data-system/.aspx
 - ERS data is for standard, conventional products only











U-Pick Example

- A strawberry producer is considering turning one acre of the operation into a U-pick
- Estimates that each acre will yield 10,000 pounds
- The average annual consumption of strawberries per person is 8 pounds (ERS, 2014)
- Use the following equation to determine the appropriate market size

(Acres in operation)*(Output per acre)

= Market size required

(Average consumption per person/year)/(52 weeks/year)

$$=\frac{10,000}{8/52} = \frac{10,000}{.154} = 64,935$$

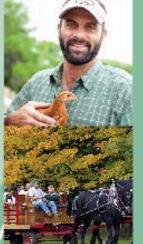
• The producer will need a market size of 64,935 consumers/visits annually to sell all output











U-Pick Example

- For the U-pick strawberry operation, the producer may be interested in targeting families
 - Would be helpful to know if nearby communities have enough families to make up a portion of the 65,000 consumers needed to make the Upick operation feasible
- Bend/Redmond, OR
 - 26,073 families, average of 3.5 persons (2010 Census)
 - 91,255 potential customers









U-Pick Example

- What percentage might visit the u-pick?
 - If 40%, then 36,502 customers
 - Almost 30% of the US population visited farms one or more times (2000)
 - But, agritourism has been growing at a rate of 6% annually
- If customers purchase 16 pounds/pp for freezing/canning
 - Only need 32,467 customers/visits annually











Destination Tourists

- Many rural areas in the West are located between a major urban center and national/state parks, ski resorts, etc.
 - Vacation destinations for many foreign and out-of-state visitors
- Estimating the potential size of these markets requires information on
 - Where visitors are coming from
 - Where visitors are returning to











- Consider Grand Canyon National Park (GCNP)
 - Attracts around 4.4 million visitors annually
 - GCNP Statistics at <u>http://www.nps.gov/grca/learn/management/statistics.ht</u> <u>m</u>
- Seasonal visitation is another important item to consider
 - Annual visits to the GCNP by season

Winter: 11% of total visits

• Spring: 27% of total visits

Summer: 39% of total visits

Fall: 23% of total visits

Visitation by month at

https://irma.nps.gov/Stats/Reports/Park/GRCA









 Where visitors to Grand Canyon National Park stayed before and after visiting the park

Destination	Before	After	Destination	Before	After
Flagstaff, AZ	17.5%	10.6%	St. George, UT	1.5%	1.4%
Williams, AZ	12.6%	7.3%	Scottsdale, AZ	1.4%	1.5%
Las Vegas, NV	9.4%	12.7%	Zion National Park, UT	1.4%	1.7%
Sedona, AZ	6.0%	6.7%	Jacob Lake, AZ	1.4%	<1%
Phoenix, AZ	5.3%	8.0%	Kingman, AZ	1.3%	2.1%
Tusayan, AZ	4.3%	2.4%	Tucson, AZ	1.2%	<1%
Page, AZ	3.4%	4.0%	Holbrook, AZ	1.1%	1.1%
Kanab, UT	1.9%	1.4%	Albuquerque, NM	1.0%	1.2%
Bryce Canyon National Park, UT	1.7%	2.1%	Cameron, AZ	1.0%	<1%









- Consider a business located between Page, AZ and GCNP
 - 3.4% of visitors stayed in Page prior to visiting GCNP
 - 4.0% of visitors stayed in Page after visiting GCNP
- The average number of visitors who would pass by this business location can be found with the following equation:

 $\frac{\text{(Total annual visitors)*(Average percentage of visitors)}}{12} = \text{Average monthly visits}$ $\frac{(4.4 \text{ million visitors})((.034 + .040) / 2)}{12} = 13,567 \text{ visitors}$

- The number of GCNP visitors that would pass by the business location each month averages 13,567
 - With a low of around 5,970 visitors during the winter months (11% of total)
 - And a high of 21,164 visitors during the summer months (39% of total)









- The Page, AZ business is a farm tourism venture (hay rides, farm stays, etc.)
 - Assume venture needs to earn an average of \$10,000 in sales monthly to be viable
 - Expects average purchase of \$25/person
- Calculate the percentage of total visitors to GCNP the venture needs to attract

Monthly sales needed/Expected sales per visitor = Percentage of total visitors needed Estimated monthly visitors

$$\frac{\$10,000/\$25}{13,567}$$
=2.9%











- The venture would need to attract 2.9%, on average, of the monthly GCNP visitors
 - 6.7% of winter visits
 - 1.9% of summer visits
- This is a fairly high percentage of total visitors
- For the business plan to work, the venture may try
 - Starting the venture on a smaller scale
 - Attracting more of the heavy summer traffic











Estimate Cost of Production

- Create enterprise budget, by service/product or product groups
- Estimate operating costs
 - Costs that vary with quantity produced
 - Seed, fertilizer, packaging, etc.
- Estimate fixed costs
 - Costs incurred regardless of production
 - Land payments, equipment, etc.
- Calculate break-even cost per unit
 - Provides lower limit for pricing





OPERATING COSTS								
Land Rental	5	Acres	\$	500.00	\$	2,500.00	\$	500.00
Irrigation Water	1	Annual	\$	2,000.00	\$	2,000.00	\$	400.00
Utilities	1	Annual	\$	4,700.00	\$	4,700.00	\$	940.00
Farm Labor	3800	Hours	\$	10.00	\$	38,000.00	\$	7,600.00
Packaging	1	Annual	\$	300.00	\$	300.00	\$	60.00
Food Safety/Testing	1	Annual	\$	1,042.00	\$	1,042.00	\$	208.40
Marketing	1	Annual	\$	3,100.00	\$	3,100.00	\$	620.00
Herbicide	5	Acres	\$	125.00	\$	625.00	\$	125.00
Fertilizer	5	Acres	\$	500.00	\$	2,500.00	\$	500.00
Seeds	1	Annual	\$	1,800.00	\$	1,800.00	\$	360.00
Plants	1	Annual	\$	400.00	\$	400.00	\$	80.00
Insecticide	5	Acres	\$	100.00	\$	500.00	\$	100.00
Drip Tape	5	Acres	\$	1,000.00	\$	5,000.00	\$	1,000.00
Fuel & Lube	1	Annual	\$	2,024.00	\$	2,024.00	\$	404.80
Maintenance	1	Annual	\$	1,975.00	\$	1,975.00	\$	395.00
Miscellaneous	5	Acres	\$	50.00	\$	250.00	\$	50.00
TOTAL OPERATING CO	STS				\$	66,716.00	\$	13,343.20
OWNERSHIP COSTS								
CASH OVERHEAD COS	TS							
Liability/Crop Insurance					\$	800.00	\$	160.00
Accounting & Legal					\$	500.00	\$	100.00
Office & Travel					\$	800.00	\$	160.00
Annual Investment Insura	ince				\$	236.43	\$	47.29
		_						
NONCASH OVERHEAD	` •	Recovery)		_			
Buildings, Improvements,	& Equipment				\$	1,689.29	\$	337.86
Machinery & Vehicles					\$	4,680.00	\$	936.00
TOTAL OWNERS: "D CO	2070					0.705.70		4 744 4 1
TOTAL OWNERSHIP CO	0515				\$	8,705.72	\$	1,741.14
TOTAL COSTS					\$	75,421.72	¢	15,084.34
I TO IAL GOOTG					Ψ	10,741.14	Ψ	10,004.04

Production Costs

5-acres of vegetable production



Investment Summary

Decembris	F	ourchase	Percentage	Purchase	Useful Life	0-	hana Valua	(Annual Capital		innual		Annual	nual Fuel
Description		Price	Use	Price	(Yrs)	Sa	Ivage Value	K	covery	ins	urance	<u> </u>	depairs	 & Lube
Buildings, Improvements, and Equipmen	t													
Hand Tools	\$	500.00	100%	\$ 500.00	5.00	\$	50.00	\$	90.00	\$	1.83	\$	5.50	\$
Implements	\$	2,500.00	100%	\$ 2,500.00	10.00	\$	250.00	\$	225.00	\$	9.16	\$	27.50	\$ -
Packing Shed (8X10)	\$	3,000.00	100%	\$ 3,000.00	15.00	\$	300.00	\$	180.00	\$	10.99	\$	33.00	\$ -
Cooler (6X8)	\$	8,000.00	100%	\$ 8,000.00	15.00	\$	800.00	\$	480.00	\$	29.30	\$	88.00	\$ -
Drip Irrigation System (5 acres)	\$	5,000.00	100%	\$ 5,000.00	7.00	\$	-	\$	714.29	\$	16.65	\$	50.00	\$ -
Sub Total	\$	19,000.00		\$ 19,000.00	NA	\$	1,400.00	\$	1,689.29	\$	67.93	\$	204.00	\$
Machinery and Vehicles														
1-26 HP Tractor (used)	\$	10,000.00	100%	\$ 10,000.00	10.00	\$	1,000.00	\$	900.00	\$	36.63	\$	385.00	\$ 440.00
1-1/2 Ton Truck	\$	30,000.00	100%	\$ 30,000.00	10.00	\$	3,000.00	\$	2,700.00	\$	109.89	\$	1,155.00	\$ 1,320.00
1-4-Wheeler	\$	6,000.00	100%	\$ 6,000.00	5.00	\$	600.00	\$	1,080.00	\$	21.98	\$	231.00	\$ 264.00
Sub Total	\$	46,000.00		\$ 46,000.00	NA	\$	4,600.00	\$	4,680.00	\$	168.50	\$	1,771.00	\$ 2,024.00
Total	\$	65,000.00		\$ 65,000.00	NA	\$	6,000.00	\$	6,369.29	\$	236.43	\$	1,975.00	\$ 2,024.00

	Total Units	Unit	rice/Cost Per Unit	C	Total Cost/Value		Total cost/Value Per Acre
TOTAL GROSS INCOME				\$	107,734.75	\$	21,546.95
OPERATING COSTS							
Land Rental	5	Acres	\$ 500.00	\$	2,500.00	\$	500.00
Irrigation Water	1	Annual	\$ 2,000.00	\$	2,000.00	\$	400.00
Utilities	1	Annual	\$ 4,700.00	\$	4,700.00	\$	940.00
Farm Labor	3800	Hours	\$ 10.00	\$	38,000.00	\$	7,600.00
Packaging	1	Annual	\$ 300.00	\$	300.00	\$	60.00
Food Safety/Testing	1	Annual	\$ 1,042.00	\$	1,042.00	\$	208.40
Marketing	1	Annual	\$ 3,100.00	\$	3,100.00	\$	620.00
Herbicide	5	Acres	\$ 125.00	\$	625.00	\$	125.00
Fertilizer	5	Acres	\$ 500.00	\$	2,500.00	\$	500.00
Seeds	1	Annual	\$ 1,800.00	\$	1,800.00	\$	360.00
Plants	1	Annual	\$ 400.00	\$	400.00	\$	80.00
Insecticide	5	Acres	\$ 100.00	\$	500.00	\$	100.00
Drip Tape	5	Acres	\$ 1,000.00	\$	5,000.00	\$	1,000.00
Fuel & Lube	1	Annual	\$ 2,024.00	\$	2,024.00	\$	404.80
Maintenance	1	Annual	\$ 1,975.00	\$	1,975.00	\$	395.00
Miscellaneous	5	Acres	\$ 50.00	\$	250.00	\$	50.00
TOTAL OPERATING COSTS				\$	66,716.00	\$	13,343.20
INCOME ABOVE OPERATING	COSTS			\$	41,018.75	\$	8,203.75
OWNERSHIP COSTS CASH OVERHEAD COSTS							
Liability/Crop Insurance				\$	800.00	\$	160.00
Accounting & Legal				\$	500.00	\$	100.00
Office & Travel				\$	800.00	\$	160.00
Annual Investment Insurance				\$	236.43	\$	47.29
NONCASH OVERHEAD COST		Recovery)					
Buildings, Improvements, & Eq	uipment			\$	1,689.29	\$	337.86
Machinery & Vehicles				\$	4,680.00	\$	936.00
TOTAL OWNERSHIP COSTS				\$	8,705.72	\$	1,741.14
TOTAL COSTS				\$	75,421.72	\$	15,084.34
NET PROJECTED RETURNS				\$	32,313.03	\$	6,462.61

Enterprise Budget

5-acres of vegetable production









Break-Even Analysis

- Break-even analysis answers the questions
 - How much needs to be sold to break even?"
 - If this quantity fits within potential demand, it may be feasible
 - Calculate break-even quantity/volume across a range of prices
 - Or
 - What would the price need to be to break even?
 - If the price that would need to be charged is unrealistic, then the idea is not feasible
 - Calculate break-even prices across a range of possible volumes











Break-Even Example

- Initial quantity of 20,000 lbs at a price of \$.24/lb, or \$4,800 in revenue
- Profit is \$1,635
- Break-even price is total expenses/number of units (20,000) or \$.16/lb
- Break-even quantity is total expenses/price (\$.24/lb) or 13,187 lbs

Cost/Income Revenue	Total 4,800	Per unit (pound) \$ 0.24			
	,				
Expenses					
Inputs	\$ 1,400	\$	0.07		
Labor	\$ 1,200	\$	0.06		
Overhead	\$ 565				
Total Expenses	\$ 3,165				
Net Income before taxes	\$ 1,635				
Income taxes	\$ 605				
Net Income	\$ 1,030				











Estimating Product Price

- Major pricing approaches
 - Cost-based
 - Demand-oriented
 - Competition-oriented
 - Not normally used independently











Cost-Based Pricing

- Cost-plus pricing
 - Price equals total costs divided by number of units
 - Shortcomings
 - Not tied to consumer demand
 - No incentive to reduce costs
 - Adjustments for rising costs poor
- Mark-up pricing
 - Add a percentage to the cost of product (mark-up)
 - Very popular for retailers and wholesales
 - Easy, too many products to estimate demand
 - Shortcomings
 - Not tied to demand
 - Profit biased by pricing











Retail Distribution Example

- Plan to sell product retail (local tourist shop)
- Set pricing at retail level and then evaluate demand
 - Ask wholesales and retailers what margin they require
- Example
 - \$5.00 cost of production
 - Multiply by 1.25 for wholesale price (Average 20-30%)
 - \$6.25 wholesale
 - Multiply by 1.40 for retail price (Average 30-50%)
 - \$8.75 retail
- Will consumers pay \$8.75?
- Need to use this price at all outlets









Demand-Oriented Pricing

- Price at customer value (willingness to pay)
- Price skimming
 - Charge high price at first to pick up consumers willing to pay more
 - Gradually reduce price to pick up consumers who are more price sensitive
- Penetration pricing
 - Initial low price to capture market share
 - Discourages competition
 - Price is increased later when consumers are hooked
 - Common in new food products











Determinants of Consumer Price Sensitivity

- Perceived substitute effect
 - How many substitutes exist?
 - If many, then consumers more price sensitive
- Unique value effect
 - Increase market share through differentiation
 - Consumers less price sensitive if "unique" product/service
- Switching cost effect
 - Cost of changing from one product to another
 - People are reluctant to change and seek out new information
 - Consumers less price sensitive if large switching costs









Determinants of Price Sensitivity

- Difficult comparison effect
 - Hard to compare products/services, then consumers less price sensitive
- Price-quality effect
 - Often associate a higher price with higher quality
- Expenditure effect
 - Consumers more sensitive to price changes on large, expensive products than small, inexpensive ones
 - Price changes on meat compared to salt











Determinants of Price Sensitivity

- Fairness effect
 - Impacted by what they consider fair (sense of value-added)
- Inventory effect
 - Seasonality affects price sensitivity
 - Higher demand for steak in summer due to outside grilling
- End-benefit effect
 - May be willing to pay more for products that protect the environment, preserve open space, support family farms, etc.









Competition-Oriented Pricing

- Simple form of pricing
- Ideal when similar products exist
- Penetration pricing
 - Lower than competition pricing
 - Stimulate demand
- Parity pricing
 - Equals competition pricing
- Premium pricing
 - Higher than competition pricing
 - Signal quality











Competitive Analysis

- How many competitors operate in the market?
- Are competitors large or small? Near or far?
- What types and numbers of products do they sell?
- What pricing methods do they use?











Consider External Factors

- Distribution
 - Wholesale and retail margins
 - Transportation and packaging costs
- Environmental factors
 - Taxes, weather events, fad diets, energy policy
- Legal/regulatory factors
 - Labeling, certification, permits, safety











Pomegranate Juice Pricing Example

- Produce and sell juice at specialty/health stores
- Cost of production is \$.80 per 8 oz. juice
 - \$.80 cost of production (multiply by 1.20)
 - \$.96 cost with profit (multiply by 1.25)
 - \$1.20 wholesale price (multiply by 1.40)
 - \$1.68 minimum retail price required
- \$1.47 per 8 oz. retail price (ERS, 2013)
 - Pricing data is US average, specialty retail price may be much higher
 - Target market may be willing to pay more (health benefits, families with children, seniors, etc.)
 - What packaging, labeling, etc. may differentiate the product?









U-Pick Pricing Example

- Strawberry u-pick operation
 - 10,000 pounds per acre
 - \$23,600 in revenue per acre
 - \$2.36 per pound retail price (ERS, US Average 2013)
 - \$18.88 in revenue per person
 - Average consumption is 8 pounds/year (ERS, 2014)
- Need to know the cost of production (including visitor services, permits, etc.)













U-Pick Pricing Example

- Considerations
 - Visitors may purchase much more than 8 pounds (processing, events, etc.)
 - Visitors may be willing to pay more or less than retail depending on...
 - Experience
 - Family outings, may pay much more per pound for the farm experience
 - Amount purchased
 - Bulk purchases for canning, freezing, etc., may pay less per pound
 - Specialty item
 - For organic, and other specialty labels or designations may pay more per pound
 - \$3.48 organic wholesale price per pound (ERS, San Fran 2013)







Pricing Resources

- Fresh and processed fruits and vegetables
 - http://www.ers.usda.gov/data-products/fruitand-vegetable-prices.aspx
- Meats and poultry
 - http://www.ers.usda.gov/data-products/meatprice-spreads.aspx
- Organic foods
 - http://www.ers.usda.gov/data-products/organicprices.aspx
- Drinks and meals away from home
 - http://www.ers.usda.gov/dataproducts/quarterly-food-away-from-homeprices.aspx











Activity

- Worksheet 5.1: Potential Volume
 - Identify 1-2 target consumer groups
 - Where are they coming from?
 - Where are they headed?
 - How many do you estimate?
 - What quantities will they use/buy?





Thank you!



