DACUM Research Chart for Beekeeper

Produced for

THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

West Virginia University
EXTENSION SERVICE
AGRICULTURE AND NATURAL RESOURCES
SMALL FARM CENTER

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THE OHIO STATE UNIVERSITY
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Martha Peck
John Moser, Team Leader

January 12-13, 2017
<table>
<thead>
<tr>
<th>Tasks</th>
<th>Duties</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Managebee pop and condition</td>
<td>A.1 Provide honey, A.2 Replace frames, A.3 Extract honey, A.4 Order honey</td>
</tr>
<tr>
<td>B. Managepay for honey</td>
<td>B.1 Purchase money, B.2 Inspect bee boxes, B.3 Produce honey, B.4 Produce products</td>
</tr>
<tr>
<td>C. Develop business</td>
<td>C.1 Develop marketing, C.2 Develop business, C.3 Develop design, C.4 Finance plan, C.5 Manage inventory</td>
</tr>
<tr>
<td>D. Develop education</td>
<td>D.1 Create lessons, D.2 Create curriculum</td>
</tr>
<tr>
<td>E. Manage Sales</td>
<td>E.1 Deliver products, E.2 Support new clients, E.3 Manage employee acquisitions, E.4 Support employees</td>
</tr>
<tr>
<td>F. Perform administrative work</td>
<td>F.1 Payroll, F.2 Process orders, F.3 Process employee, F.4 Support employees, F.5 Manage employee, F.6 Support new clients</td>
</tr>
<tr>
<td>G. Distribution of honey</td>
<td>G.1 Distribute honey, G.2 Manage new clients, G.3 Support new clients, G.4 Support employees</td>
</tr>
</tbody>
</table>

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DACM Research chart for Beekeeper
About the Job

A Banker (or Account) Plant Dealer - A position of a Branch Manager, as a member of the management of the operation of an agency.
General Knowledge and Skills

Knowledge
Basic bee biology/behavior
Local flora
Standard operating procedures
Weather forecasting/patterns
Bee botany
Marketing principles
Bee pests & diseases
Microsoft Office software
Apiary management principles and methods
Honey processing procedures
Bee handling techniques
Bee crop harvesting methods
PPE
Licensing requirements
State/federal laws/regulations
Social media
Shipping/logistics procedures
Basic accounting
Basic financial
Professional development opportunities
Recordkeeping

Skills
Basic carpentry
Basic electrical
Basic plumbing
Problem solving
Interpersonal
Multitasking
Communication
Mechanical
Analytical
Customer service
Queen rearing
Basic computer
Presentation
Leadership
Supervisory/management
Olfactory

Behaviors
Honest
Team player
Patient
Flexible
Detail oriented
Observant
Confident
Independent
Disciplined
Ethical
Tenacious
Knowledgeable
Cautious
Safety oriented
Driven
Supportive
Coachable
Pragmatic

Acronyms

MSDS  Material Safety Data Sheet
PPE   Personal Protective Equipment
CPA   Certified Public Accountant
Tools, Equipment, Supplies and Materials

- Hand truck
- Duct tape
- Scales
- MSDS
- Pallet jack
- Basic hand tools
- Refractometer
- First aid kit
- Ladders
- Basic office supplies
- Vehicles
- Glue
- Trailers
- Mowers
- Computer/peripherals
- Chain saw
- Water hose
- Pressure washer
- Table saw
- Smoker/smoker fuel
- Hive tool
- PPE (bee suit)
- Woodenware
- Queen rearing equipment
- Bee medications
- Bee feed
- Weed wacker
- Post driver
- Containers (bottles, jars, labels)
- Uncapper
- Uncapping tank
- Wax spinner
- Food-grade buckets
- Food-grade plastic tubing
- Bottling tanks
- Honey warmer
- Settling tanker
- Drip trays
- 55 gallon drums
- Extractor
- Queen cages
- Comb cutters
- Honey filters

Future Trends and Concerns

- Staff retention
- Processing automation
- New bee pests
- Disappearing forages for honeybees
- Electrification of bee hives
- Plastic/equipment evolution
- Electronic recordkeeping
- Growing honey imports
- Changing beekeeper demographics
- Honey demand exceeding supply
- Increased use of pesticides in environment
- Increasing environmental stressors (lack of clean water, public's use of chemicals)
- Loss of natural bee habitats
- Pollen provenance
- Shorter queen longevity
- Development of crops that don't need pollination
- Decrease in bee genetic diversity
- Access to true native plants