

# CHRP BUSINESS PLAN EXAMPLE B

## GROVES WITH KNOWN GREENING OR CANKER DISEASE

*These examples are general in nature. Specifics of your situation may require that you consider detailed options available on the UF-IFAS website.*

Purpose: The Citrus Health Response Program (CHRP) provides a framework to help manage citrus diseases in Florida, and within that framework the USDA/APHIS and FDACS/DPI are charged with CHRP administration along with survey and regulatory program activities. However, as with any agricultural protection program, industry support and participation are essential elements of the plan. Three key areas where the Florida Citrus Industry needs to provide assistance are: (1) decontamination of personnel and equipment, (2) self-surveys of citrus groves under their control for citrus canker and citrus greening (and Asian citrus psyllid populations), and (3) general citrus disease management with emphasis on citrus canker, citrus greening and insects associated with these diseases.

Industry Requirements: All segments of the Florida Citrus Industry share in the overall responsibility of protecting it from harm. Support of and compliance with the CHRP by the Florida Citrus Industry is of signal importance if we are to successfully manage and combat citrus diseases. To properly identify and maximize industry support and compliance with CHRP regulatory requirements, each citrus industry business should prepare a written document of decontamination procedures that outlines specifically how decontamination measures will be carried out on a day to day basis. In addition, those businesses that grow citrus or manage citrus production are asked to create and maintain a business plan in accordance with CHRP minimum standards and in consideration of UF-IFAS recommendations that outline management practices for grower self-surveys and for the control of diseases and the citrus psyllid. The UF - IFAS Citrus Pest Management Guide is, as the title indicates, a guideline to be used as a base to develop prescription plans for individual operations. Deviation from the guidelines will not constitute an incorrect business plan model if there is some logic to the management strategy employed. The procedure set forth in the business plans need not be overly complex or lengthy, so long as they capture the key elements of the procedures required for each business and clearly explain how the business will properly carry out each initiative. These procedures are to be forwarded to the FDACS-DPI CHRP headquarters in Winter Haven along with your CHRP Grower / Caretaker Agreement and a copy kept in your files to guide your business practices. (Although some tables are provided for your use in this outline, please plan to append additional pages as needed.) See UF-IFAS guidelines at these locations: <http://edis.ifas.ufl.edu/CG086> ; <http://edis.ifas.ufl.edu/CG040>.

*Decontamination, Survey, and Disease Management strategies are addressed on pages two through six of this business plan.*

## CHRP BUSINESS PLAN EXAMPLE B – GROVES WITH KNOWN GREENING OR CANKER

Please enter company information below: **CHRP BUSINESS PLAN**

<b>Business Name:</b>		<b>Company Type:</b>		<b>Contact:</b>	
<b>Address:</b>				<b>Telephone:</b>	
<b>City:</b>		<b>State:</b>	<b>Zip:</b>		<b>Cellphone:</b>
<b>Fax#:</b>		<b>Email Address:</b>			

*(Please remember that pesticide labels should be closely followed and that treatments should be timed to minimize impact on pollinators).*

**Who in your business is responsible for citrus grove pest management activities?**

<b>Name:</b>	
<b>Location:</b>	
<b>Phone #:</b>	<b>Mobile #:</b>

**Who in your business is responsible for decontamination training, quality assurance, and compliance enforcement?**

<b>Name:</b>	
<b>Location:</b>	
<b>Phone #:</b>	<b>Mobile #:</b>

**Who in your business is responsible for grove self-survey training, quality assurance, and compliance enforcement?**

<b>Name:</b>	
<b>Location:</b>	
<b>Phone #:</b>	<b>Mobile #:</b>

**(Training documentation records must be maintained by all members of the commercial citrus industry for a minimum of three years.)**

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## CHRP DECONTAMINATION PROCEDURES

**Decontamination Plan Requirements:** Describe the type of training program your business will provide. What training tools will be used (citrus canker video, flip charts, hands-on demonstrations, etc.) When will new employees be trained? Describe in detail what specific steps are in place to ensure people comply with your plan and how you plan to ensure appropriate decontamination by those not in your direct employment. What disciplinary action will be taken if employees are found violating the procedures? What action will be taken if contractors are found violating the procedures? Attached is a proposed outline of decontamination procedures that each regulated business may complete, or you may devise your own outline or plan.

**Decontamination Action Plan:** Train all employees in decontamination methods utilizing materials available through the State CHRP offices including videos and flip charts. Provide hands-on demonstrations. All new employees to be trained at the time of hiring and an annual decontamination training review will be provided for all employees. Take advantage of decontamination training workshops made available through the State, IFAS, extension offices, etc. Daily decontamination will be monitored by supervisors. All persons and equipment entering and leaving the groves, or moving between groves, will decontaminate each time and this will include employees as well as outside contractors and anyone visiting the groves. Decontamination of equipment and personnel will be extremely thorough when moving equipment or personnel from any infected blocks to clean groves or those where the status is unknown. Only State approved decontaminants will be used. Signs will be posted on the property and decontamination rules will be enforced. There will be consequences made known to employees and outside visitors for not properly decontaminating. Outside contractors will be reported to the appropriate authorities for violations.

### **Decontamination Logistics:**

<b>Task</b>	<b>Who</b>	<b>When</b>	<b>Where</b>	<b>Quality Assurance?</b>
<i>Employee Training</i>	<i>All Employees</i>	<i>Upon hire and refresh annually</i>	<i>On site</i>	<i>Yes</i>
<i>Personnel Spraying</i>	<i>All persons entering, leaving, and moving between groves</i>	<i>Upon entering, leaving and moving between groves</i>	<i>On site</i>	<i>Supervised</i>
<i>Equipment Spraying</i>	<i>All equipment entering, leaving, and moving between groves</i>	<i>Upon entering, leaving and moving between groves</i>	<i>On site</i>	<i>Supervised</i>
<i>Equipment and Chemical Inventory and Ordering</i>	<i>Grove manager / supervisor</i>	<i>As needed</i>	<i>On site or contracted</i>	<i>Approved chemicals</i>
<i>Equipment Maintenance and Cleaning</i>	<i>By grove personnel, inspected by supervisor/manager</i>	<i>Daily</i>	<i>On site</i>	<i>Supervised</i>
<i>Decontamination Chemical Mixing, Testing, Distribution</i>	<i>Grove manager</i>	<i>As needed</i>	<i>N/A</i>	<i>Yes</i>
<i>Records Maintenance</i>	<i>Office staff/grove manager</i>	<i>Continuous</i>	<i>Grove office</i>	<i>Yes</i>

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## CHRP SURVEY PROCEDURES

**Survey Plan Requirements:** To augment commercial citrus grove surveys currently conducted by the Citrus Health Response Program, growers must implement some form of self-inspection to help detect citrus diseases as quickly as possible. The sooner the disease is found, the less mechanical, human, insect, and weather related spread there will be on a grower's own or his neighbor's property. Describe any quality assurance measures you plan to use to ensure that employees are inspecting effectively for citrus disease and associated insect vectors. If an employee finds a disease suspect, describe the measures to be taken to confirm the diagnosis. Any citrus canker/ greening suspects must be brought to the attention of the Citrus Health Response Program. To report suspects, call the helpline at 800-282-5153.

### **Survey Action Plan:**

*Grove managers will be trained in the identification of canker and greening in addition to other citrus pests and diseases, making use of workshops, videos, and printed materials made available by the State, IFAS, or county extension offices. Managers/ supervisors will train and supervise canker inspection in the groves. Survey is planned for twice per year for canker with employees walking and/or riding ATVs, and three times per year for greening with employees on foot. Canker survey between May and December, and two of the three greening surveys should be conducted between September and March. Employees will tag suspicious trees, report findings to the supervisor/ grove manager who will contact the local State CHRP office for someone to come out and take samples to submit for testing. Further activity in that grove area will be suspended pending the outcome of the test. Proper decontamination rules for personnel and equipment will be followed. Employees will receive refresher training annually. Quality assurance achieved through close supervision.*

### **List of groves to be inspected:**

Grove Name	Location	Variety	Acres	Planned Method and Frequency of Inspection
<i>Eighty Foot Grove</i>	<i>(TRS; street address; city/county)</i>	<i>Valencia</i>	<i>80</i>	<i>Survey as listed above walking every other row for canker and inspecting all trees on foot for greening.</i>
(Continue list of groves)				

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## CITRUS CANKER MANAGEMENT

**Disease Management Requirements:** Describe the citrus canker management strategies your business plans to employ. The UF - IFAS disease management guidelines are viewed as foundation to citrus canker and greening control strategy development. However, at this point in the program individual company business plans may deviate from the UF-IFAS Best Management Practices, provided that there is some logic to the citrus disease control method selected, and state and federal pesticide laws and rules are met. Please remember that pesticide labels should be closely followed and that treatments should be timed to minimize impact on pollinators.

### **Citrus Canker Management Plan:**

*Survey is planned for twice per year, combined walking and riding. Suspect trees will be tagged and the CHRP office contacted to take samples and test; if results are positive, we plan to remove infected tree(s) and possibly some buffer trees following state-approved procedures for disposal. In limited situations, may cut trees back or chemically defoliate depending on the extent and location of the infection. Treat to the extent possible with copper sprays as well as insecticide treatments to control other pests, such as leafminer, when feasible. Adjust spraying schedules to meet needs. Additional spraying will be considered as needed and economically feasible based on IFAS guidelines. Follow up infected areas with inspections monthly to detect potential, further disease. Decontamination rules will be strictly followed and enforced at all times. Since windbreaks are recommended, we will make plans for all fresh fruit groves and consider also for process if economically feasible based on IFAS recommendations.*

### **List of Groves:**

Grove Name	Location	Variety	Acres
Golden Grove	(TRS; street address if applicable; city/county, directions)	Valencia	120
Lower Forty	(TRS; street address if applicable; city/county, directions)	Grapefruit (fresh)	40
(Continue listing grove properties here)			

# CHRP BUSINESS PLAN EXAMPLE B – GROVES WITH CANKER OR GREENING

## CITRUS GREENING MANAGEMENT

**Disease Management Requirements:** Describe the citrus greening management strategies your business plans to employ. The UF - IFAS disease management guidelines are viewed as foundation to citrus canker and greening control strategy development. However, at this point in the program individual company business plans may deviate from the UF-IFAS Best Management Practices, provided that there is some logic to the citrus disease control method selected, and state and federal pesticide laws and rules are met. Please remember that pesticide labels should be closely followed and that treatments should be timed to minimize impact on pollinators.

### **Citrus Greening Management Plan:**

*Plan to examine all grove trees at least twice per year from September through March, and attempt a third inspection if possible, simultaneously inspecting for canker and other pests. Inspect all trees on foot. When symptoms resembling greening are found in an area where not previous known to exist, contact the local CHRP office to collect samples and have tested. Psyllids will be managed with recommended insecticide applications applied as needed. Infected trees will be removed and disposed of according to State / UF-IFAS recommendations. Any resets will be purchased from a State certified nursery.*

### **List of Groves:**

Grove Name	Location	Variety	Acres
<i>Golden Grove</i>	<i>(TRS; street address if possible; city/county if needed; directions)</i>	<i>Valencia</i>	<i>120</i>
<i>Lower Forty</i>	<i>(TRS; street address if applicable; city/county, directions)</i>	<i>Tangerines</i>	<i>40</i>

If you have any questions or need additional information, contact your local CHRP office or call the CHRP Helpline at 1-800-282-5153.