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ProCrop Services 2022

Retainer agreement

- Annual contract (12 months) with consultation choices of:
  - Crop protection
  - Plant nutrition and soil chemical adjustments

Ad hoc

- Any visits, communication and enquiries within the knowledge field of **ProCrop**:
  - Technical expertise
  - Problem-solving
  - Seasonal newsletters

Optimisation services

- Optimisation of spray applications
- Optimisation of monitoring
- Optimisation of crop protection

Training

- Training at the Koue Bokkeveld Training Centre (KBTC).
  - Safe handling of pesticides (e-learning option)
  - Pest and disease monitoring of fruit and vegetables
  - Spray machine calibration and application: fruit, vegetables and herbicides

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Lectures and presentations

- Any ad hoc lectures or presentations within the field of expertise of **ProCrop**

Contract research

- Any studies related to the field of expertise of **ProCrop:**
  - Spray technology
  - Product evaluation
  - Practical evaluation

Market access services

- Guidance manual per crop for market access
- MRL list per crop
- Keeping abreast of and regularly communicating about developments within the EU and other relevant markets regarding the use of pesticides

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ProCrop Services 2022: Retainer agreement

- **Year contract (12 months)**
- **Bi-weekly visits in season**
- **Seasonal weekly newsletters**

Consultation choices:

Crop protection

- Integrated pest and disease management programs per crop
- Ensure market access requirements are met.
- Planning and rollout of pest and disease monitoring systems
- Use of pest and disease prediction models - Rimpro & Ileaf
- Optimization of spray equipment and spray application strategies, by ProCrop technical specialists

Plant nutrition and soil chemical adjustments

- Planning well-balanced fertilization programs based on the variables of each individual situation
- Recommendations on soil suitability for specific crop types
- Recommendations on physical and chemical soil corrections.
- Fertilization program adjustments throughout the season based on leaf and soil analyzes.
- Planning of 3 year lime maintenance programs for soils.

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ProCrop Services 2022: Ad hoc

- Any visitations, communications or queries inside the knowledge area of ProCrop
  - Technical knowledge
  - Problem solving

- Season-bound technical newsletters inside the knowledge area of ProCrop
  - Delivered weekly or monthly

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ProCrop Services 2022: Optimisation services

These service bundles are aimed at equipping agricultural companies with knowledge and valuable optimisation of systems to save on costs and to mitigate risk.

Every optimisation bundle is performed by one of ProCrop's qualified specialists.

Optimisation of spray applications: fruit and/or vegetables

- Measurement of the tree row volume (TRV) of trees and setting up TRV groups for dosage purposes
- Evaluation of and setting up spray applicator: air supply, nozzle set-up and application speed
- Complete overhauling of spray applicator calibration set-ups and spray applicator allocation per TRV group

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Optimisation of crop protection

- Complete evaluation of crop protection protocols, including but not limited to:
  - pest or plant disease epidemiology
  - choice of active ingredients
  - positioning of active ingredients
  - meeting the requirements for resistance control
  - residue management
  - when necessary, the deployment of cultural management measures
- Utilisation of support systems (monitoring systems, models for predictions of pests and plant diseases)

Optimisation of monitoring: pests and plant disease monitoring system

- Crop-specific
- Division of monitoring blocks
- Identification of monitoring points
- Evaluation of existing systems and skill levels of monitors
- Setting up a monitoring system: electronic vs non-electronic
- What is monitored when?
- Types of traps and placement
- Collecting data
- Interpretation of data and threshold of pests, where applicable

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ProCrop Services 2022: Training

Training offered by the Kouebokkeveld Training Centre (KBTS), www.kbos.co.za

Safe handling of pesticides

In this course students learn more about the use of pesticides in modern agriculture:

- Identification of various types of pesticides and other chemical products used in agriculture
- Background and knowledge of the danger classification of chemical pesticides
- How to read chemical labels and the type of important information appearing on these labels
- Background on chemical pest control
- Alternatives for pest management
- Basic calibration concepts
- Keeping record of the use of chemical pesticides

Safe handling 1 – R 690 pp
Safe handling 2 – R 690 pp
Safe handling e-training option: – R 525 pp

Orchard monitor training

This course is aimed at monitors for pome and stone fruit farms. Students attending this course will learn theoretical expertise and practical skills to become an effective orchard monitor:

- Aim of monitoring and monitoring theory
- Characteristics of a good monitor
- Duties and responsibilities of an orchard monitor
- Orchard monitoring methods
- Orchard and trap inspection, and data collection
- Basic entomology and plant diseases
- Identification of diseases and pests in pome and stone fruit

Orchard monitor training – R 1445 pp

Vegetable monitor training

This course is aimed at monitors for vegetable farms. Students attending this course will learn theoretical expertise and practical skills to become an effective monitor in vegetable production:

- Aim of monitoring and monitoring theory
- Characteristics of a good monitor
- Duties and responsibilities of a vegetable monitor
- Vegetable monitoring methods
- Trap and land inspection, and data collection
- Making use of data
- Basic entomology and plant diseases
- Identification of diseases and pests in the main vegetable groups

Vegetable monitor training – R 1245 pp

Calibration and application: weeds

This technical course is aimed at equipping students with knowledge of weed control during the fruit production season:

- Background and theory of weed management
- Weed factors
- Droplet size and spray volume
- Background on products at our disposal
- Product choices in different scenarios
- Calibration of weed spray equipment
- Visits to demonstration tests with different products

Orchard weed management – R 1445 pp

Calibration and application: fruit

This technical course is aimed at widening the individual's knowledge of orchard spraying theory:

- Background and theoretical knowledge of effective orchard spray application
- Deposition parameters
- Drop size and spray volume
- Nozzle choice
- Travelling speed and air volume of an orchard sprayer
- Theory and practical demonstration of correct orchard spray calibration

Calibration and application: fruit – R 1115 pp

Calibration and application: vegetables

This technical course is aimed at widening the individual's knowledge of boom spray theory:

- Background and theoretical knowledge of effective boom spray application
- Deposition parameters
- Droplet size and spray volume
- Nozzle choice
- Forward-speed
- Theory and practical demonstration of correct boom spray calibration

Calibration and application: vegetables - R 1115 pp

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ProCrop Services 2022: Lectures and presentations

Lectures and presentations

- Ad hoc lectures on subjects inside the field of expertise of ProCrop, which include but are not limited to:
  - Spray application in fruit and vegetable crops
  - Plant disease management
  - Pest insect management
  - Weed management
  - Market access strategy regarding pesticides

- **Fee per lecture on enquiry**

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ProCrop Services 2022: Contract research

Contract research

- Any studies related to the field of expertise of ProCrop, including but not limited to:
  - Spray technology
  - Product evaluation
  - Practical evaluation

Price on demand

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ProCrop Services 2022: Market access

- Guideline bundle for market access per crop
    - Each guideline bundle contains the latest specific information regarding market access requirements for each crop for the EU as well as other relevant export markets.

Price on demand for specific crop

- Communication of developments inside the EU and other relevant markets regarding the use of pesticides

Price on demand

- Maximum residue level (MRL) for specific crops destined for specific markets

Price on demand for specific crop

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