NSW GOVERNMENT

Systems analysis

Function & what does it involve?	Key people/group(s) involved	How do those involved connect with others about this function?	What tools are used to support this function?	What information sources support this function?	How is this function resourced?	What external rules apply to this function? (e.g. legislation, strategic plans, etc.)	What program rules apply to this function?
Program management	Local Land Services Regional Plant Biosecurity Coordinators Plant Biosecurity Program Lead	Plant Coordinators connect monthly through a Community of Practice. Programs are coordinated through regional connections.	Online meetings Shared comms and deliverables	Existing working group structures	Business as usual	State Organisational Strategic Plan Regional Strategies Legislation	Regular communication between plant biosecurity staff Shared resources
Target pest: Fall Armyworm	DPIRD Entomologists Local Land Services expertise National Entomologists RapidAim Staff Private Agronomists	Knowledge sharing and updates distributed through: Advisory meetings Field Days Community of Practice	LLS RapidAIM Sensor Network Pheromone traps Private agronomists and crop scouts Chemical resistance screening	Extension information and resources Research and technological development Climatic tolerances and host species range	TBC	Not a notifiable pest in NSW APMVA chemical permits for different crops Best practice IPM and pesticide strategies to reduce pesticide resistance risks Fall armyworm biotype and novel traits may develop	Funding available for sensor maintenance Keep up-to-date with research, restrictions and developments
Target regions identified: NSW LLS Regions: North Coast Greater Sydney South East Hunter Central West	Local Land Services staff Rural reseller stores Dairy Australia Dairy NSW GRDC Plant Health Australia	Communication between groups is facilitated through: Stakeholder meetings Newsletters Seasonal updates Training events	Internet access Mobile reception	TBC	Business as usual	Potential environmental impacts to native species Action plans of existing industries	Primary industries affected by Fall Armyworm Could shift if pests become problematic in new regions and crops
Community engaged (notifiers)	Dairy Producers Grain Producers Silage growers Private Agronomists Regional grower groups	Communication is facilitated though: Extension updates Seasonal updates ID and management workshops Industry publications	Newsletters Industry publications Grower field days Websites	TBC	In-kind support	No reporting requirements in NSW Community values (reducing impacts of pest pressure on neighbouring enterprises, etc)	Accurate and current information Best Management Practice Keep up to date with impacts developing in other industries ie rice, cotton, sugarcane
Surveillance activities	Local Land Services Plant Biosecurity Staff Private/Corporate Agronomists & Crop Scouts	Regional connections through government and industry relationships	RapidAim sensor data collection and storage Agronomist logbooks	FAW 3D identification model Factsheets and Ute guides Beatsheet website Identification workshops	Business as usual	TBC	Correct identification Efficacy of pheromone lures

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	RapidAIM staff		Contract sprayer logbooks	DARABUG2 - degree days for pest development			
Reporting	RapidAim data collection and storage Sensors and pheromone lures are maintained by dairy producers Agronomist/Crop Scouts TBD	RapidAIM customer service	Reporting apps require smart phones at the front end Integrated dashboard supported through RapidAIM website	Growers learn trap set up and app functions from RapidAIM + user's manual Use of notifications to determine field monitoring and spray schedules Climate applications team to use RapidAim outputs in their modelling/forecasting	Business as usual RapidAIM subscription	NSW Privacy and Personal Information Protection Act 1998	Notifications from RapidAIM app Local Land Services subscription to RapidAIM sensors Use of data by Local Land Services for communications
Identification/ Diagnosis	LLS and DPIRD staff Private/Corporate agronomists Growers	Regional connections through government and industry relationships		RapidAim to determine best pheromones lures specific to FAW Staff training	Cost of leasing and maintaining RapidAim traps	TBC	Correct identification Efficacy of pheromone lures
Data management and analysis	RapidAIM staff Plant Biosecurity Program Lead LLS Plant Biosecurity Coordinators DPI Climate Applications	TBC	RapidAIM/LLS database and storage capacity RapidAIM software and app development	Existing capabilities to store and analyse the data. Appropriate models by Climate Applications team. App development by RapidAim.	Business as usual	LLS Data Governance and Management RapidAim Terms and Conditions	TBC
Data use	Growers and producers Local Land Services Dairy Australia DPI Climate Applications Research scientists	Communications to farmers groups and grower associations. Knowledge sharing with other jurisdictions	RapidAIM sensor alerts app Seasonal updates developed by Local Land Services	TBC	Business as usual	RapidAim terms and conditions on product, sales and services. NSW Privacy and Personal Information Protection Act 1998 Data Sharing Act (2015)	Appropriate risk and liability communications