

ANNUAL PROGRESS REPORT

DETAILS

PROJECT NUMBER	P05000120
PROJECT TITLE	Herbicide resistance survey of <i>Conyza</i> species and efficacy evaluation of herbicide spraying programmes in herbicide resistant or tolerant populations.
PROJECT MANAGER	M Craven
CO-WORKER(S)	Internal: Dr AEJ Saayman-du Toit (Weed Scientist); Vacant (Senior Technician); Vacant (Technician); GW Tshetlhe (Assistant), A Mofokeng (Research support), SI Phokompe (Research support) External: Chemical companies (Villa Crop; BASF), Producers
PROJECT STATUS	Continue
DURATION	01/04/2020 to 31/03/2024
REPORT PERIOD	April 2020 to 30 September 2020

ACTIONS TAKEN TO DATE

The project commenced during April 2020. Seeds of *Conyza* species were collected from fields with suspected resistant populations during April and May 2020. *Conyza* populations were subsequently collected from farms in the Free State (Heilbron, Virginia/Theunissen, Clocolan (Photo 1); Bethlehem, Vredefort), Gauteng (Nigel) and North West (Ventersdorp and Potchefstroom). Seeds were harvested and stored at 4°C. Required herbicides were ordered (Table 1).



Photo 1. *Conyza* population at Clocolan in soybean field

Table 1. Herbicides procured during June 2020 to be included in the *Conyza* study

Product name	Active ingredient	Concentration	Supplier
2,4D Amine 480 SL	2,4D	480g ℓ^{-1}	Nulandis
Atrazine 500 SC	atrazine	485g ℓ^{-1}	Arysta Lifescience
Classic	chlorimuron-ethyl	250 g ℓ^{-1}	DuPont
Eragon	saflufenacil	700 g kg^{-1}	BASF
Gramoxone	paraquate	200g ℓ^{-1}	Syngenta
Linuron 500 SC	linuron	500 g ℓ^{-1}	Villa Crop
Metribuzin 480SC	metribuzin	480 g ℓ^{-1}	Villa Crop
Roundup Turbo	glyphosate	480 g	Monsanto

Preparations for the first set of glasshouse trials were made.

PROGRESS MADE

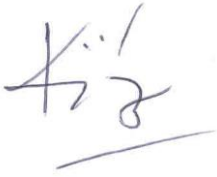
The first glasshouse trials commenced during September 2020.

RESULTS ACHIEVED TO DATE

No results to report yet

PROBLEMS ENCOUNTERED

Covid-19 lockdown during April and May 2020 resulted in some delays experienced regarding the purchasing of research consumables.

A handwritten signature in black ink, appearing to be 'K. J. J.', written over a horizontal line.

Handtekening van Snr Navorsingsbestuurder
Signature of Senior Manager Research

1 September 2020

Datum/

Date