

Project Number: M101/10 Project Title: Evaluate maize hybrids for different production systems

Topic	0-2	3-5	6-8	9-10
Scientific viability of project topic		5		
Practical value of topic to the maize industry				9
Topic in line with industry research requirements				9
Project duration and future development		5		
ARC capacity to conduct research on topic			7	

- Considered to be a core activity of the ARC-GCRI
- The high rate of failure to gather data from planted plots is concerning
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Project Number: M101/11 Project Title: Evaluation of short season maize cultivars under irrigation

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
ARC capacity to conduct research on topic	ARC lacks personnel, expertise and equipment to conduct the research. Outside service providers would be preferred.	ARC has capable personnel but lacks the equipment to conduct the research topic. Manpower and equipment resources outside the ARC will be required	ARC has capable personnel and is well equipped to conduct the research topic. Manpower resources from outside the ARC will be required.	ARC has fully capable personnel and is well equipped to conduct the research topic

Project Number: M101/80 Project Title: Evaluate maize genotypes for economic viability

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M102/10 Project Title: Determine the milling quality and colour deviation of white maize cultivars

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M101/2 Project Title: Calibration of NIT for maize protein, starch and ash determinations

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M102/13 Project Title: Development of methodology to evaluate the suitability of yellow maize cultivars for grit production

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M103/13 Project Title: Systems analyses for maize production under different management practises for specific agro-ecoregional zones

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M103/15 Project Title: Estimating methods for grain yield across South Africa using systems/ statistical analysis and crop modeling

Topic	0-2	3-5	6-8	8-10
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Project Number: M 105/12 Project Title: Investigating maize root diseases in a crop rotation trail

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M104/13 Project Title: Evaluation of biological, organic and inorganic substances associated with improved plant growth, yield and biotic and abiotic stress tolerance traits in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M 105/80 Project Title: The impact of crop rotation and fertilizers on sustainability and economic issues on developing farmers in the North West Province

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Project Number: M121/81 Project Title: Maize cultivar evaluation under different soil fertility conditions for resource poor farmers

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M105/10 Project Title: Comparison of integrated crop rotation, tillage systems and fertilizer application on economic and sustainable crop production on the Highveld

Topic	0-2	3-5	6-8	8-10
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Project Number: M 105/11 Project Title: Evaluation of suitable conservation tillage methods in crop production systems

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Project Number: M106/10 Project Title: The role of soil microbiology in maize production

Topic	0-2	3-5	6-8	8-10
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Project Number: M121/15 Project Title: Fertiliser monitoring for maize production

Topic	0-2	3-5	6-8	8-10
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Project Number: M141/12 Project Title: Breeding for Grey Leaf Spot (*Cercospora zae-maydis*) resistance in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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Project Number: M 141/16 Project Title: Development and application of molecular markers in maize breeding

Topic	0-2	3-5	6-8	8-10
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Project Number: M161/10 Project Title: Maize cultivar development

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Project Number: M 161/11 Project Title: Fingerprinting of maize genotypes

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Project Number: M161/80 Project Title: Participatory evaluation and identification of maize varieties for smallholder farmers

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
ARC capacity to conduct research on topic	ARC lacks personnel, expertise and equipment to conduct the research. Outside service providers would be preferred.	ARC has capable personnel but lacks the equipment to conduct the research topic. Manpower and equipment resources outside the ARC will be required	ARC has capable personnel and is well equipped to conduct the research topic. Manpower resources from outside the ARC will be required.	ARC has fully capable personnel and is well equipped to conduct the research topic

Project Number: M191/10 Project Title: Maize breeding : Inbred lines and cultivar development

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
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Project Number: M 191/11 Project Title: Genetic characterization of *Stenocarpella maydis* tolerance in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
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Project Number: M191/80 Project Title: Development and transfer of high quality protein maize (QPM) varieties to small-holder farmers, using marker-assisted breeding.

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M131/10 Project Title: Integrated management strategies for the stalk borer complex in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M 131/11 Project Title: Stand reducing insect pests of maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M 131/12 Project Title: Integrated management strategies for streak disease in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M141/10 Project Title: Integrated control of maize ear rots

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M141/11 Project Title: Integrated control of maize common rust, northern corn-leaf blight and eyespot

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M151/10 Project Title: Integrated nematode control in maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
Topic in line with industry research requirements	Topic of little practical value and does not address issues of relevance to the industry	Topic of value but not within the main stream of requirements set by the industry	Topic of high value to the maize industry but not fully within topics identified as relevant by the industry	Topic of high value to the maize industry in general and totally within relevant topics identified by the industry
Project duration and future development	Project conducted on open-ended basis. Needs complete revision or scrapping	Project needs revision and some addition or removal of topics to ensure relevant outcomes	Project managed well in most aspects and should be adapted to ensure timely completion	Project managed well in all aspects and should be supported to completion
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Project Number: M111/13 Project Title: Increased use of integrated weed control

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M 111/15 Project Title: Herbicide-related crop damage to maize

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M 112/10 Project Title: Vigour and germination of maize seed

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M181/10 Project Title: Maize Information Guide

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number:M191/12 Project Title: Evaluation of maize genotypes suitable for bio-fuel ethanol extration

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M 191/12 Project Title: Development and evaluation of maize genotypes suitable for increased bio-fuel purposes

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
Practical value of topic to the maize industry	Topic only of scientific or personal interest and will not contribute to practical outcomes	Topic will yield results in time but would need various basic research aspects to become practical	Topic will yield good results but would not be of immediately practical value	Topic will yield very practical and relevantly applicable results
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Project Number: M141/80 Project Title: Variation between *Fusarium verticillioides* isolates in their ability to produce fumonisins infect maize kernels and their resultant population dynamics

Topic	0-2	3-5	6-8	8-10
Scientific viability of project topic	Topic based on poor science and will not reach desired outcomes	Topic scientifically acceptable but would probably take long to complete	Topic on sound scientific basis with good prospects of results within a reasonable time	Topic on very sound scientific basis with good prospects of valuable timely results
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