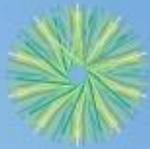




# CAOMHNÚ ÁRANN



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An Roinn Talmhaíochta,  
Bia agus Mara  
Department of Agriculture,  
Food and the Marine

**Nuálaíocht in Aschur  
Talmhaíochta agus Éiceolaíochta**

**Innovation in Agricultural  
and Ecological Output**



**An Roinn Cultúir,  
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AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY



**Fáilte Ireland**

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# CAOMHNÚ ÁRANN

Nuálaíocht in Aschur  
Talmhaíochta agus Eiceolaíochta  
Innovation in Agriculture  
and Ecological Outcomes

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- Use of remote sensing in development of farm plans and in habitat assessment.
- Trial a simple results based measure for grassland habitats.
- Determine the feasibility of alternative markets from the grasslands.
- Improving the output of existing production on farms.



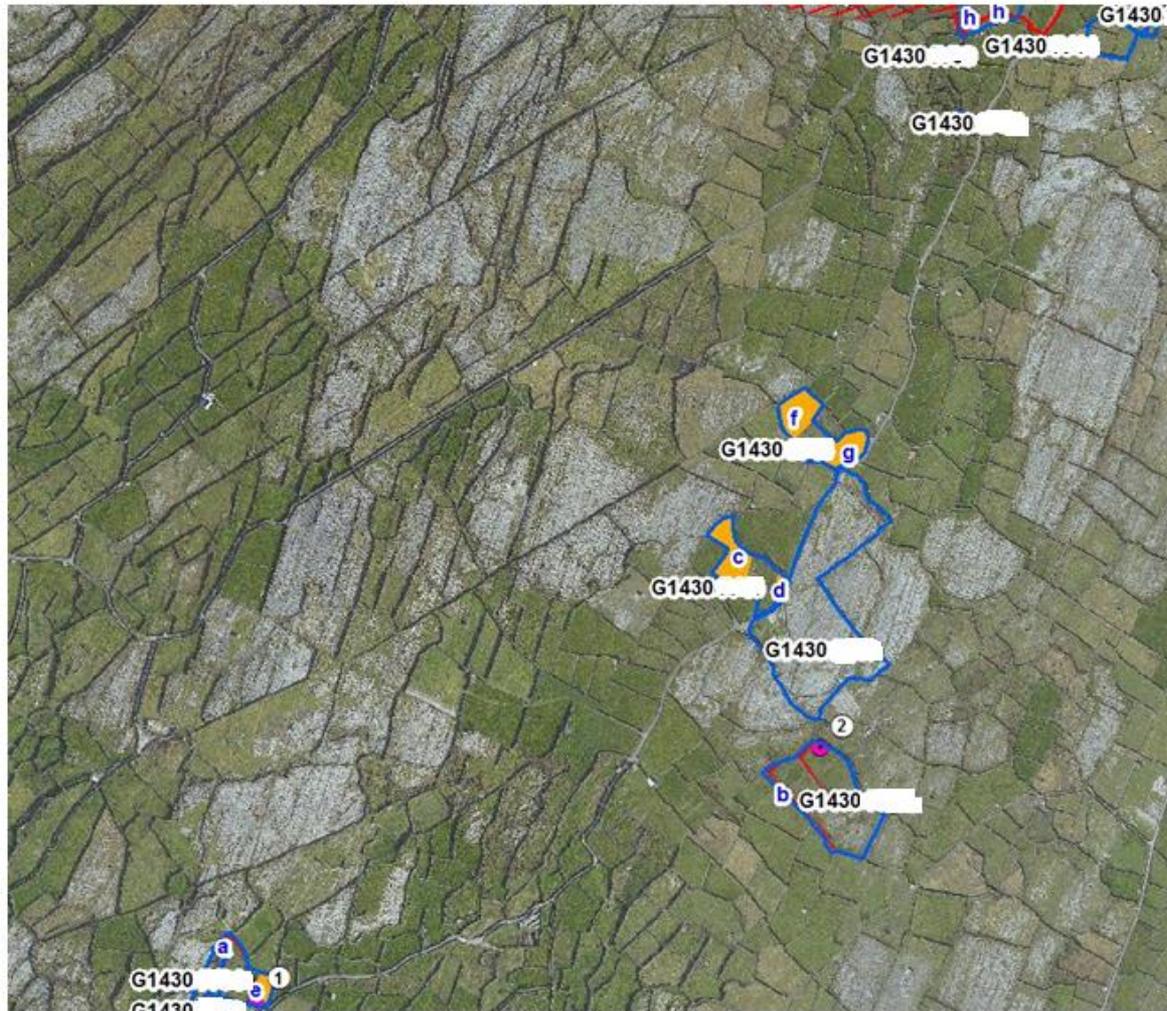
	<b>Caomhnú Árann Participant farmers</b>
<b>Inis Oírr</b>	<b>14</b>
<b>Inis Meáin</b>	<b>32</b>
<b>Inis Mór</b>	<b>80</b>
<b>Total</b>	<b>126</b>

Mapaí Léargas Ginearálta ag léiriú oibreacha le déanamh  
 Overview maps indicating works to be done



Ainm Rannpháirtí / Participant's name:

Uimhir Tréada / Herd Number:



**Legend**

- Field Parcel
- Scrub to clear**
- Scrub density
- Heavy
- Medium
- Light
- Water Infrastructure



"The European Agricultural Fund for Rural Development; Europe investing in rural areas".



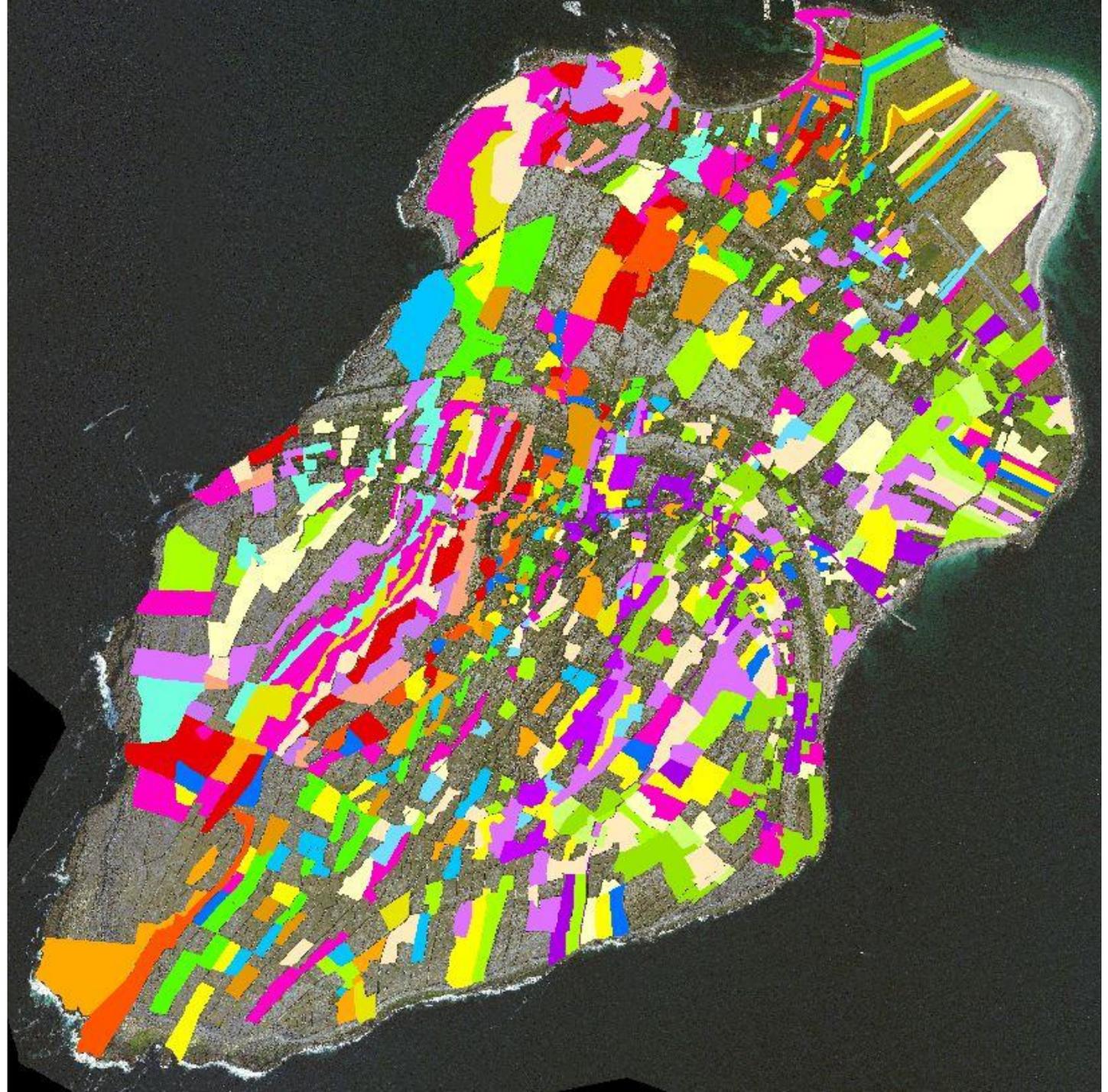
An Roinn Talmhaíochta, Bia agus Mara  
 Department of Agriculture, Food and the Marine



Ireland's EU Structural and Investment Funds Programmes 2014 - 2020  
 Co-funded by the Irish Government and the European Union

Dáta / Date: 30.09.19





A white UAV with green wings is flying in the upper right quadrant of the image. The background shows a wide landscape with a body of water in the middle ground and a horizon with distant hills. The foreground is dominated by a series of stone walls forming a grid-like pattern, likely a field or farm layout. The sky is a pale, overcast blue.

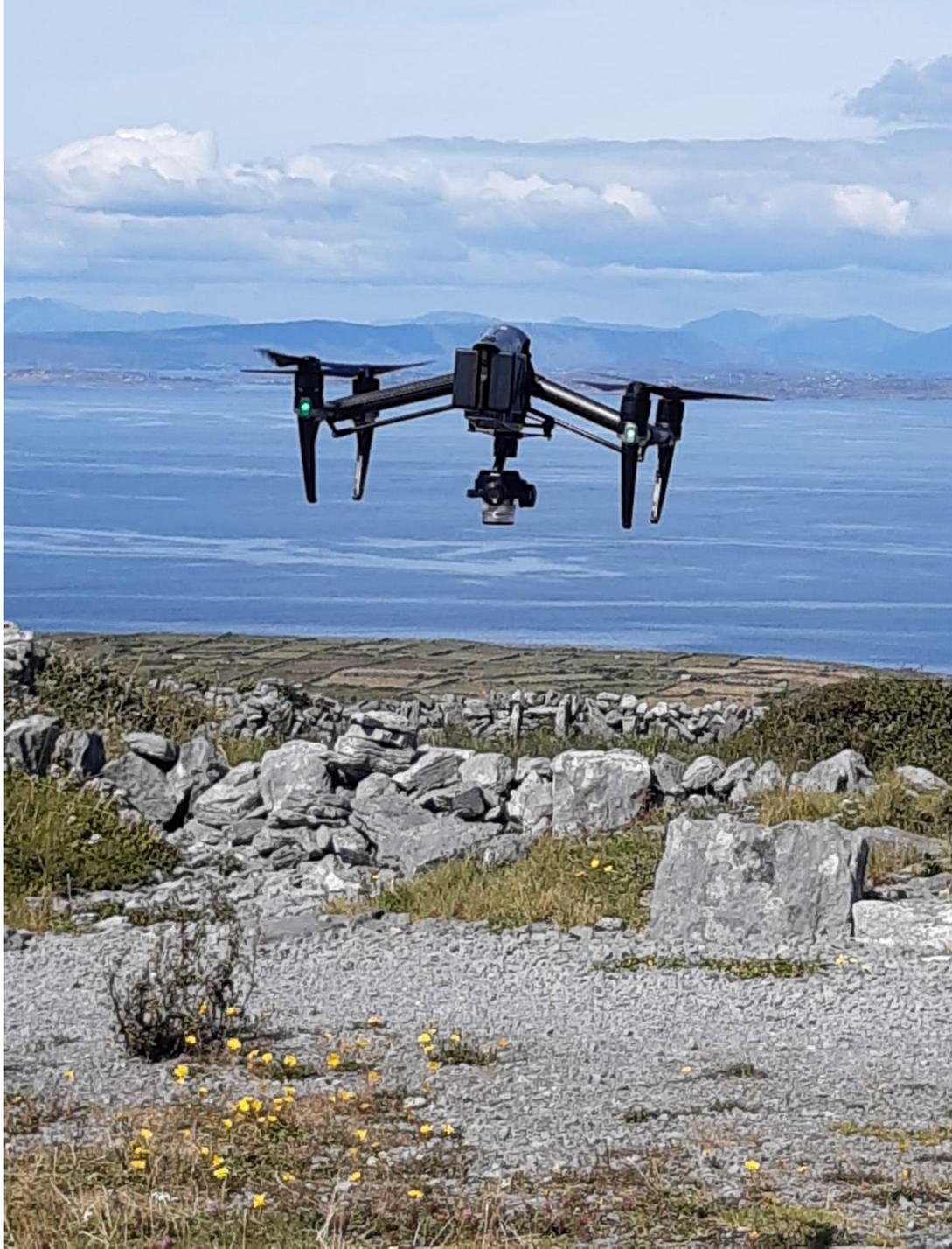
# Caomhnú Árann

UAV Workshop and Site Survey

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SEPTEMBER 2019

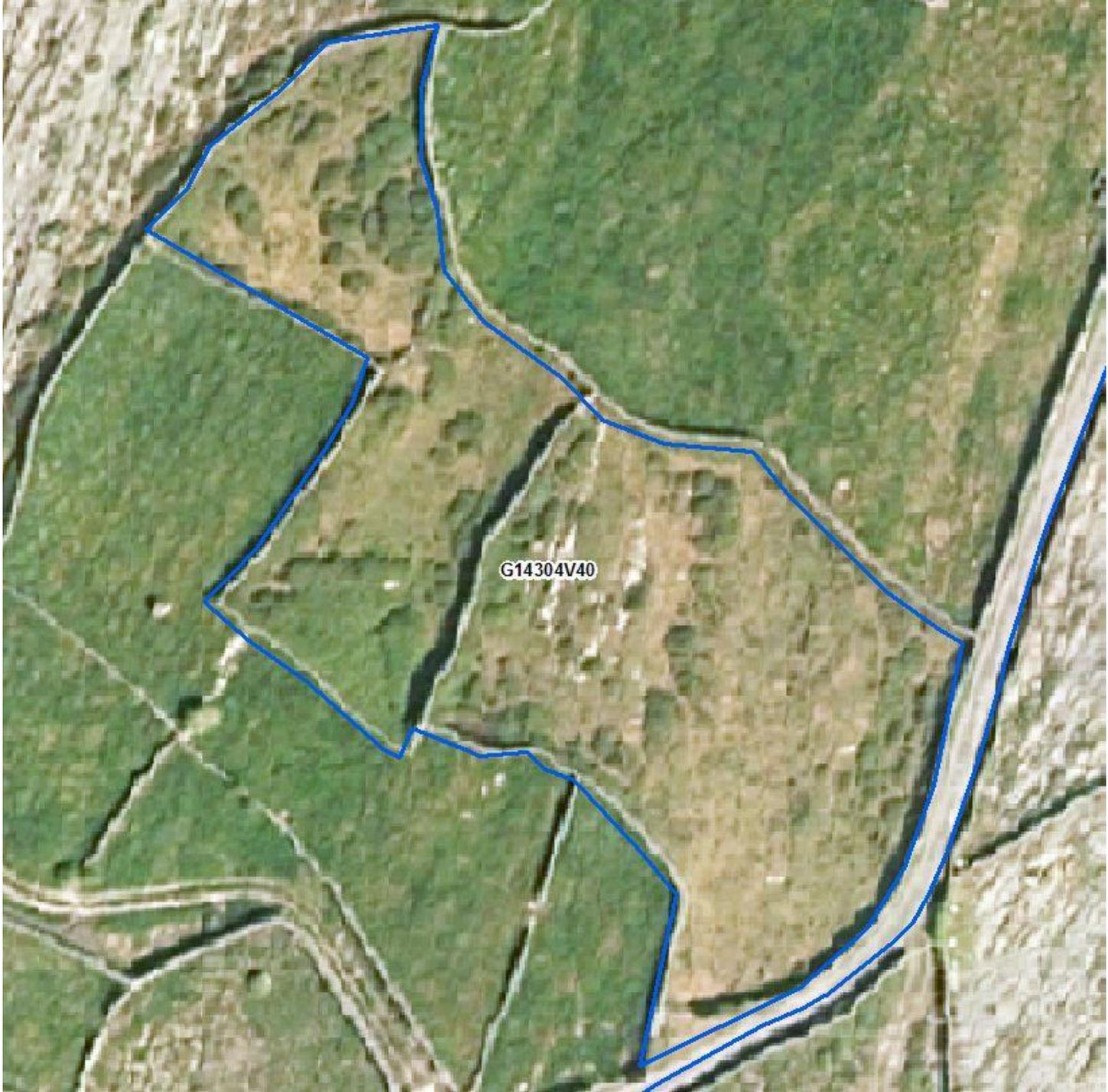




BING  
2014



DAFM  
2018



MAVIC  
PRO



FARM PLAN



c

G14304V40

d

Farm Plot scores for grazing action	
Score	Rationale
5	<p><b>Priority habitat perceived to be very well managed, indicated by a high number of positive indicator species and an appropriate grazing regime (lacking indicators of undergrazing and overgrazing).</b></p> <p>If five or more positive indicators are located in an area of one square metre at eight out of ten random points in the field then the area will have a score 5</p> 
4	<p><b>Priority habitat with a high number of positive indicator species and an appropriate grazing regime (lacking indicators of undergrazing and overgrazing) but with scrub or bracken encroachment an issue .</b></p> <p>Where four or more, positive indicators are located in an area of one square metre at five out of ten random points in the field, it would have score of 4.</p> 
3	<p><b>Priority habitat with reduced numbers of positive species indicators. Habitat is not optimally grazed and scrub encroachment may be an issue. Habitat also supports negative indicator species.</b></p> <p>A field having between two and four positive indicators present in an area of one square metre in at least six out of ten random points in the area is indicative of a moderately species-rich field and will have a score of 3.</p> 
2	<p><b>Semi-improved habitat with limited indicators of priority habitat, grass dominated, usually with higher levels of fertility or more recently made grasslands in an island context.</b></p> <p>Where the field contains one or less positive indicator present in an area of one square metre at six out of ten random points in the area it is likely a semi-improved or improved field with a grass dominant over herds and so will have a score of 2.</p> 
1	<p><b>Non-priority habitat on the farm, e.g. arable, thick scrub.</b></p>











# Globally, annual expenditure on ecological restoration of degraded areas for habitat improvement and biodiversity conservation is approximately \$18bn

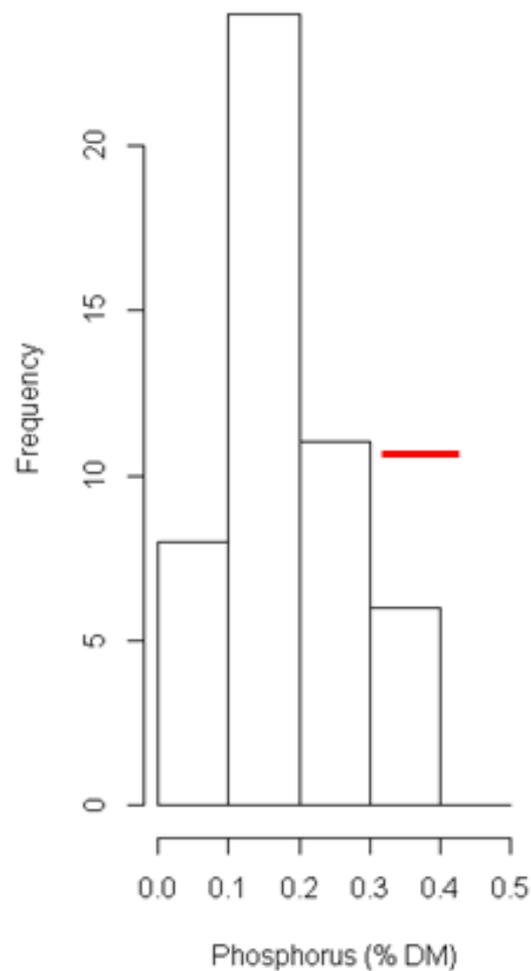
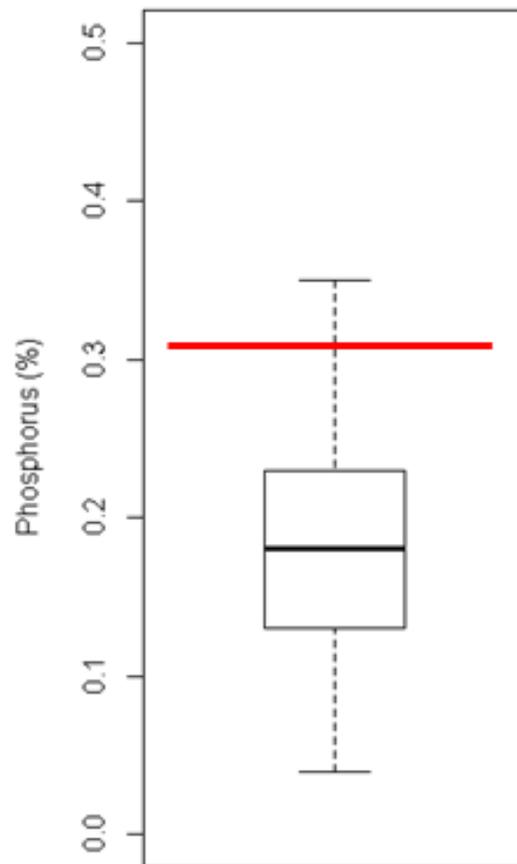
Ladouceur, E., JiménezIbarra, B., Marin, M., De Vitis, M., Iannetta, P.P.M., Bonomi, C. & Pritchard, H.W. (2017) Native seed supply and the restoration species pool. Conservation Letters.







# Phosphorus



# Phosphorous deficiency

## Blood phosphorus depends on reproductive status in breeder cows

*Rob Dixon<sup>A,C</sup> and David Coates<sup>B</sup>*

<sup>A</sup>QAAFI, The University of Queensland, PO Box 6014, Rockhampton, Qld 4702 Australia

<sup>B</sup>CSIRO, Ecosystem Services, ATSIP, PO Box Aitkenvale, Qld 4814 Australia

## Blood phosphorus concentration may be highly variable in mixed-age breeder herds

*Rob Dixon<sup>A,D</sup>, Jarud Muller<sup>B</sup> and Bob Mayer<sup>C</sup>*

<sup>A</sup>QAAFI, The University of Queensland, PO Box 6014, Rockhampton, Qld 4702 Australia

<sup>B</sup>Qld Department of Agriculture and Fisheries, PO Box 976, Charters Towers, Qld 4820, Australia

<sup>C</sup>Qld Department of Agriculture and Fisheries, PO Box 5083, Nambour, Qld 4560, Australia

## Blood phosphorus concentration as an indicator of phosphorus deficiency in growing cattle

**Rob Dixon<sup>1</sup>**, Stephen Anderson<sup>2</sup>, Lisa Kidd<sup>3</sup>, Mary Fletcher<sup>1</sup>

<sup>1</sup>Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland, Brisbane, Qld, Australia. <sup>2</sup>School of Biomedical Sciences, The University of Queensland, Brisbane, Qld, Australia. <sup>3</sup>School of Veterinary Sciences, The University of Queensland, Qld, Australia. <sup>E</sup>Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland, Qld Australia.



MIKRITE

Fortilky

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