Fig-ajust-JUSTE\_P-Kerguehennec-sfK0-2022oct25-Olsen.docx.docx

P.Denoroy ; 2022oct26

**Figures d’ajustement de réponses de culture à P sol**

**Utilisant l’outil Shiny JUSTE\_P**

**Essais Kerguehennec Ch.Reg. Agr. Bretagne**

***Avec commentaires de P.Denoroy***

Ajustements sans introduction des paramètres initiaux (calculés par le programme)

Analyse de terre : P Olsen ; profondeur analyse terre = labour ( ?)

***NB : sans les données des parcelles PxK0***

Modèles : linéaire-plateau, quadratique-plateau, Mitscherlich, Cate-Nelson

Kerguehennec 1985 pois cv X

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|  | Modèle linaire-plateau : échec à l’ajustement |

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Kerguehennec 1986 blé cv X

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Kerguehennec 1987 orge cv X

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Kerguehennec 1988 maïs cv X

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|  | Echec dans l’ajustement du modèle LP |

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Kerguehennec 1989 blé cv X

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| Plantage lors de la tentative d’ajustement du modèle |  |

Kerguehennec 1990 pois cv X

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Kerguehennec 1991 blé cv X

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Kerguehennec 1992 orge cv X

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Kerguehennec 1993 maïs cv X

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Kerguehennec 1994 blé cv X

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Kerguehennec 1995 pois cv X

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Kerguehennec 1996 blé cv X

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| Plantage … |  |

Pas de réponse du rendement à la disponibilité en P du sol 🡺 pas de possibilité d’ajustement des modèles testés ⬄ échec de l’ajustement des modèles

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Kerguehennec 1997 maïs cv X

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Kerguehennec 1998 maïs cv X

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Kerguehennec 1999 blé cv X

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Kerguehennec 2001 blé cv X

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Kerguehennec 2002 orge cv X

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| Mitscherlich : echec dans l’ajustement du modèle |  |

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Kerguehennec 2003 maïs cv X

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Kerguehennec 2004 blé cv X

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Kerguehennec 2005 pois cv X

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Kerguehennec 2006 orge cv X

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Kerguehennec 2007 et 2008 : pas de recolte

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Kerguehennec 2009 orge cv X

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Kerguehennec 2010 maïs cv X

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Kerguehennec 2011 blé cv X

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Kerguehennec 2012 maïs cv X conduite sans azote

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Kerguehennec 2013 maïs cv X conduite sans azote

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Kerguehennec 2014 maïs cv X conduite sans azote

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Pas d’ajustement cohérent des modèles : impossible d’ajuster le modèle linéaire-plateau, et les autres modèles donnent des ajustements visuellement aberrants.

Pour cette troisième année sans azote, on a une réponse du rendement à P Olsen inverse de celle attendue pour une carence en P. Les traitements carencés en P peuvent voir un démarrage plus lent et limité qui leur permet de mieux terminer leur cycle

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Kerguehennec 2015 blé cv X

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Kerguehennec 2016 pois cv X

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Après plusieurs années sans fertilisation azotée, la disponibilité en N organique du sol a du fortement diminuer et la culture est totalement dépendante de la fixation symbiotique, ce qui expliquerait une forte réponse à la disponibilité en P du sol (la fixation symbiotique étant a priori fortement dépendante de la disponibilité en P).

Kerguehennec 2017 blé cv X

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Kerguehennec 2018 orge cv X

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Kerguehennec 2019 colza cv X

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Kerguehennec 2020 orge cv X

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Kerguehennec 2021 maïs cv X91.05

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