

Rothamsted Repository Download

A - Papers appearing in refereed journals

Jebari, A., Oyetunde-Usman, Z., Mcauliffe, G., Chivers, C. and Collins, A. L. 2024. Willingness to adopt green house gas mitigation measures Agricultural land managers in the United Kingdom. *PLOS ONE*. 19 (7), p. e0306443. <https://doi.org/10.1371/journal.pone.0306443>

The publisher's version can be accessed at:

- <https://doi.org/10.1371/journal.pone.0306443>
- <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0306443>

The output can be accessed at:

<https://repository.rothamsted.ac.uk/item/99059/willingness-to-adopt-green-house-gas-mitigation-measures-agricultural-land-managers-in-the-united-kingdom>.

© 8 July 2024, Please contact library@rothamsted.ac.uk for copyright queries.

1 **S3 Table. Test for Stepwise regression predictors selection**

2 Table 1. Test for Stepwise regression predictors selection with Mean Willingness to Adopt as the outcome variable

Number of Predictors	Predictors for each model (Mean Willingness to Adopt)	R2ADJ	C	AIC	AICC	BIC
1	dom_grazinglivestock	0.224	55.448	204.778	204.915	211.153
2	workfte dom_grazinglivestock	0.282	39.239	192.044	192.274	201.606
3	workfte anaerobic dom_grazinglivestock	0.328	26.375	181.048	181.394	193.797
4	workfte dom_farmcereal anaerobic dom_grazinglivestock	0.359	18.147	173.523	174.011	189.460
5	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock	0.397	8.230	163.745	164.400	182.869
6	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock age_below50	0.415	3.963	159.227	160.074	181.538
7	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50	0.424	2.301	157.304	158.369	182.803
8	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell	0.428	2.309	157.134	158.443	185.820
9	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell rentlandha	0.427	3.602	158.357	159.938	190.231
10	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell rentlandha dom_mixedfarm	0.426	4.986	159.677	161.557	194.739
11	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha	0.425	6.150	160.751	162.957	199.000

12	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm	0.423	7.673	162.221	164.782	203.657
13	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland	0.421	9.349	163.859	166.804	208.483
14	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock	0.418	11.080	165.559	168.917	213.370
15	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry	0.415	13.030	167.504	171.305	218.502
16	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry farmedareaha	0.411	15.020	169.492	173.767	223.677
17	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry grow_covercrop farmedareaha	0.408	17.007	171.478	176.257	228.850

18 workfte dom_farmcereal gen_cropdom anaerobic 0.404 19.000 173.470 178.786 234.030
dom_grazinglivestock educ_bi age_below50
farmexp21_40yrs farmpercepwell farmexp0_20yrs
rentlandha dom_mixedfarm ownershipland ownlive
> stock ownpoultry grow_covercrop farmedareaha
far_percepaverage

3

4

5

Table 2. - Test for Stepwise regression predictors selection with PCA scores as the outcome variable

Number of predictors	Predictors for each model (PCA Scores)	R2ADJ	C	AIC	AICC	BIC
1	dom_grazinglivestock	0.202	38.372	526.189	526.397	531.747
2	workfte dom_grazinglivestock	0.290	22.284	513.255	513.606	521.593
3	workfte anaerobic dom_grazinglivestock	0.346	12.589	504.496	505.026	515.612
4	workfte dom_farmcereal anaerobic dom_grazinglivestock	0.385	6.204	498.135	498.885	512.030
5	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock	0.420	0.683	492.101	493.110	508.775
6	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock age_below50	0.439	-1.847	488.986	490.295	508.440
7	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50	0.441	-1.060	489.579	491.231	511.812
8	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell	0.441	0.059	490.546	492.583	515.558
9	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell rentlandha	0.438	1.694	492.116	494.583	519.907
10	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmpercepwell rentlandha dom_mixedfarm	0.433	3.518	493.907	496.850	524.477
11	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50	0.429	5.290	495.637	499.104	528.987

	farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha					
12	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm	0.425	7.143	497.463	501.501	533.591
13	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland	0.420	9.087	499.396	504.056	538.303
14	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock	0.414	11.051	501.353	506.686	543.040
15	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry	0.409	13.010	503.304	509.364	547.770
16	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry farmedareaha	0.403	15.004	505.298	512.138	552.543
17	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry grow_covercrop farmedareaha	0.397	17.004	507.298	514.975	557.322
18	workfte dom_farmcereal gen_cropdom anaerobic dom_grazinglivestock educ_bi age_below50 farmexp21_40yrs farmpercepwell farmexp0_20yrs rentlandha dom_mixedfarm ownershipland ownlive > stock ownpoultry grow_covercrop farmedareaha far_percepaverage	0.391	19.000	509.293	517.864	562.096

6

7

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

28
29