



Notat: Ny Udbyttefremgang Vinterhvede Forsøgsserie 01080 og 01081 år 2014, 2015 og 2016

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Marlene Trinderup, konsulent

matr@teknologisk.dk, +45 72 20 32 97

Formål

- Se dokumentet "Notat hkg Kerne pr ha Vinterhvede.docx"

Overordnede konklusioner

- Se dokumentet "Notat hkg Kerne pr ha Vinterhvede.docx"

Metoder

- Se dokumentet "Notat hkg Kerne pr ha Vinterhvede.docx"

Resultater

- Alle resultater præsenteres i Appendix.

Referencer

R Core Team (2016). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>.

Appendix**Difference Protein%, 2014 Råprotein (pct)**

Test af differencen: Difference = SmåParcel - StorParcel (positiv: småparcel har højest værdi)

T-test af difference. H0: gennemsnitlig difference = 0

	ttest3
statistic.t	-0.703552861539714
parameter.df	11
p.value	0.49633371493778

Model for difference: diff = intercept + LF1 + RandomEffects

Test af om intercept = 0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-4.4212459	2.458587	4.051185	-1.7982871	0.1456241
LF12	-0.9162648	2.481998	3.999998	-0.3691642	0.7307166
LF13	-2.8396559	2.481998	3.999998	-1.1441007	0.3163950

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
LF1	12.60262	6.30131	2	3.999998	0.6819251	0.5561177

LSmeans for fixed effects

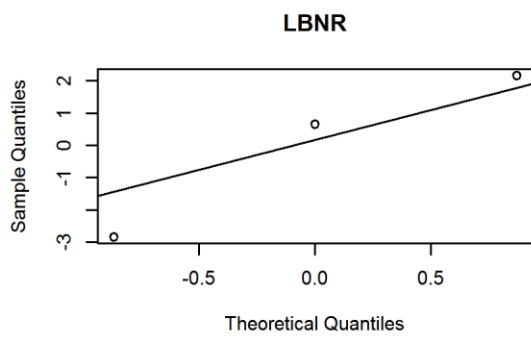
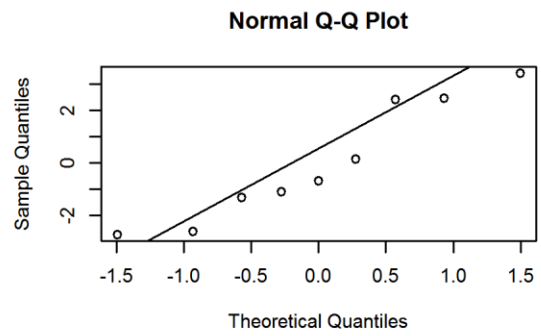
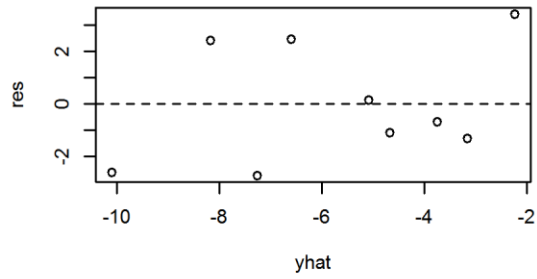
LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	-4.4	2.5	4.051185	-11.2	2.4	a
2	-5.3	2.5	4.051185	-12.1	1.5	a
3	-7.3	2.5	4.051185	-14.1	-0.5	a

LSD for fixed effects

	outprot[[i]]\$LSD
LF1	6.9

p-værdier for fixed effects

	outprot[[i]]\$pvalues
LF1	p = 0.55612



Difference Protein%, 2015 Råprotein (pct)

Test af differencen: Difference = SmåParcel - StorParcel (positiv: småparcel har højest værdi)

T-test af difference. H0: gennemsnitlig difference = 0

	ttest3
statistic.t	1.61633711552313
parameter.df	17
p.value	0.124425861291102

Model for difference: diff = intercept + LF1 + RandomEffects

Test af om intercept = 0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	4.0324365	3.612087	10.263339	1.11637292	0.2897168
LF12	2.1040210	3.682307	9.999987	0.57138660	0.5803520
LF13	0.1015892	3.682307	9.999987	0.02758846	0.9785332

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
LF1	16.89392	8.446958	2	10.00003	0.2076534	0.8159051

LSmeans for fixed effects

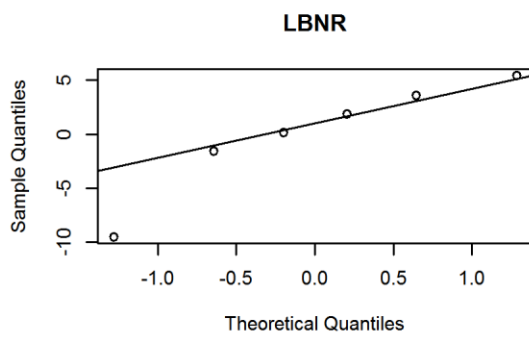
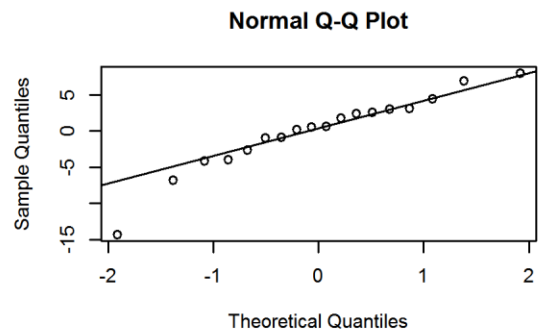
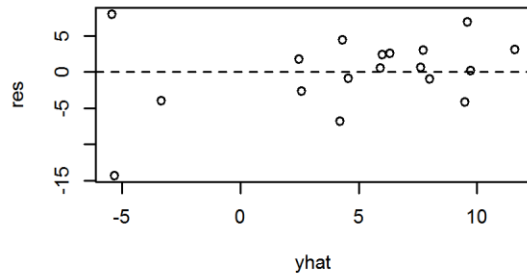
LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	4.0	3.6	10.26334	-4.0	12.1	a
2	6.1	3.6	10.26334	-1.9	14.2	a
3	4.1	3.6	10.26334	-3.9	12.2	a

LSD for fixed effects

	outprot[[i]]\$LSD
LF1	8.2

p-værdier for fixed effects

	outprot[[i]]\$pvalues
LF1	p = 0.81591



Difference Protein%, 2016 Råprotein (pct)

Test af differencen: Difference = SmåParcel - StorParcel (positiv: småparcel har højest værdi)

T-test af difference. H0: gennemsnitlig difference = 0

	ttest3
statistic.t	-0.368356726401176
parameter.df	14
p.value	0.718117415344077

Model for difference: diff = intercept + LF1 + RandomEffects

Test af om intercept = 0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.8412675	2.102638	9.184491	0.8756939	0.4035167
LF12	0.8328801	2.319575	8.000004	0.3590657	0.7288382
LF13	3.0436415	2.319575	8.000004	1.3121546	0.2258645

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
LF1	24.74152	12.37076	2	7.999999	0.9196854	0.4370093

LSmeans for fixed effects

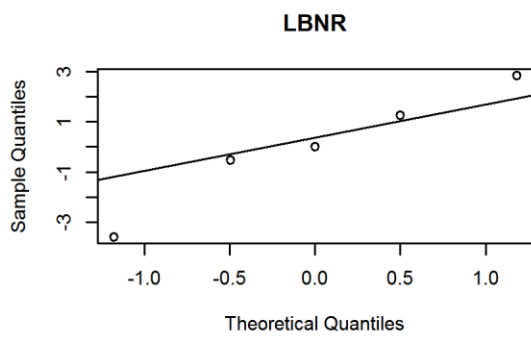
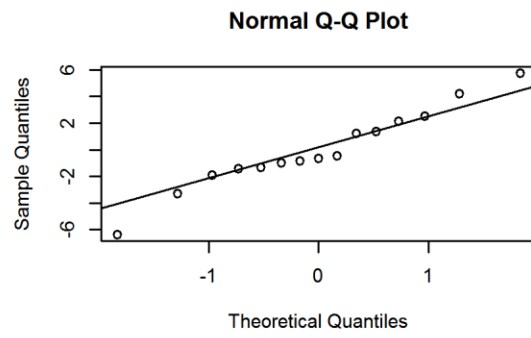
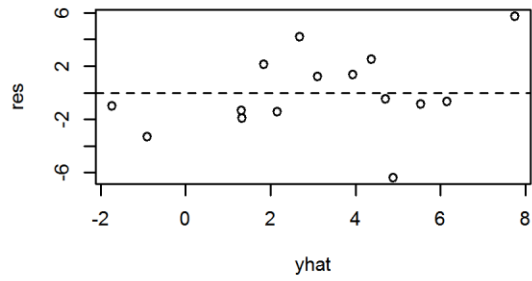
LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	1.8	2.1	9.18449	-2.9	6.6	a
2	2.7	2.1	9.18449	-2.1	7.4	a
3	4.9	2.1	9.18449	0.1	9.6	a

LSD for fixed effects

	outprot[[i]]\$LSD
LF1	5.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
LF1	p = 0.43701



Difference Protein%, Alle år Råprotein (pct)

Test af differencen: Difference = SmåParcel - StorParcel (positiv: småparcel har højest værdi)

T-test af difference. H0: gennemsnitlig difference = 0

	ttest3
statistic.t	0.392571815292362
parameter.df	44
p.value	0.696531145319066

Model for difference: diff = intercept + LF1 + RandomEffects

Test af om intercept = 0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.5693808	3.256816	2.206061	0.1748275	0.8759642
LF12	1.0028380	1.813482	25.999999	0.5529904	0.5849938
LF13	0.5220554	1.813482	25.999999	0.2878746	0.7757250

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
LF1	7.043763	3.521882	2	26	0.1529855	0.858909

LSmeans for fixed effects

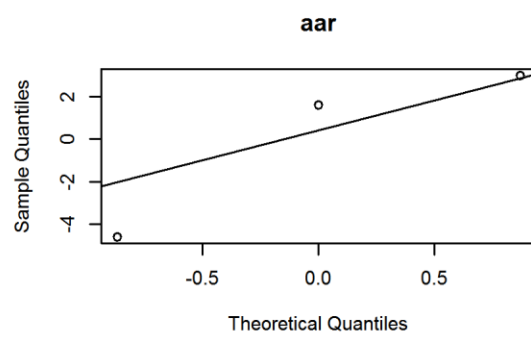
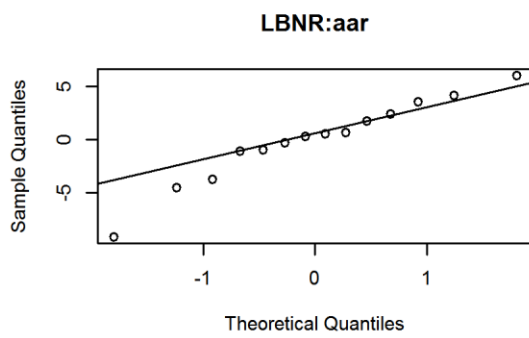
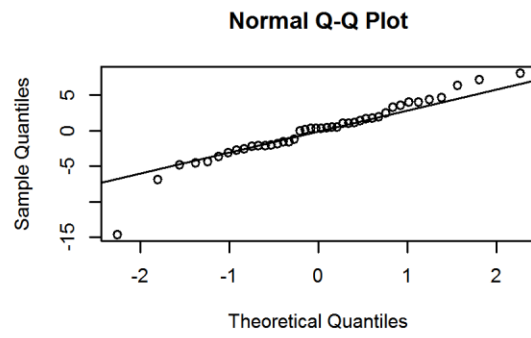
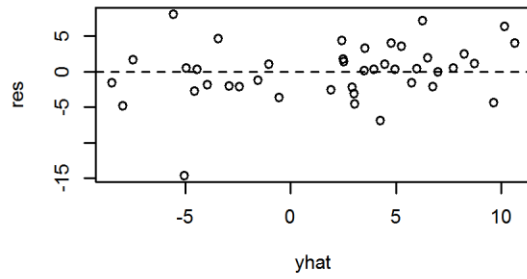
LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	0.6	3.3	2.452615	-11.3	12.4	a
2	1.6	3.3	2.452615	-10.3	13.4	a
3	1.1	3.3	2.452615	-10.8	13.0	a

LSD for fixed effects

	outprot[[i]]\$LSD
LF1	3.7

p-værdier for fixed effects

	outprot[[i]]\$pvalues
LF1	p = 0.85891



Proteinprocent, 2014 LBNR 004, Hjerm, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	0.6120662	0.6120662	1	15	1.3056567	0.2710937239
LF1	10.7642006	5.3821003	2	15	11.4810700	0.0009452665
ParcStr:LF1	0.6074450	0.3037225	2	15	0.6478994	0.5371765636

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	11.2	0.2	7.758249	10.7	11.7	a
StorParceller	11.5	0.2	7.758249	11.0	12.1	a

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	10.6	0.3	12.20867	10.1	11.2	a
2	11.2	0.3	12.20867	10.7	11.8	a
3	12.3	0.3	12.20867	11.7	12.8	b

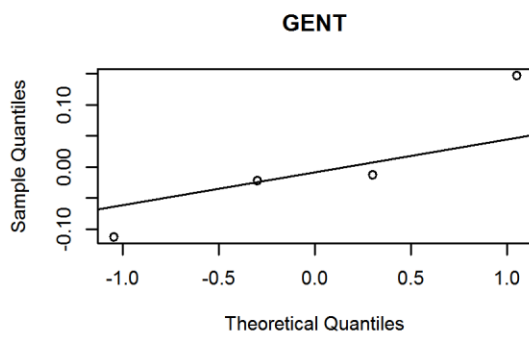
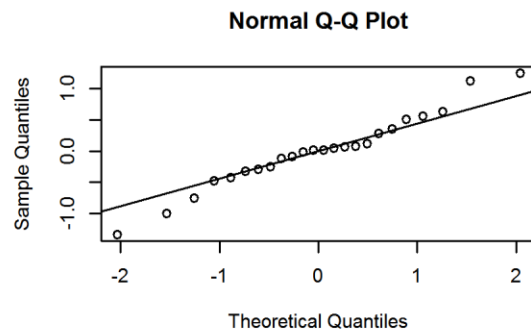
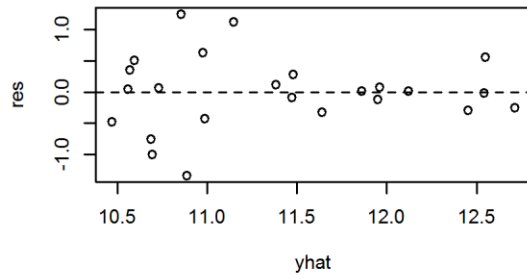
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	10.7	0.4	17.54034	10.0	11.5	a
StorParceller	1	10.6	0.4	17.54034	9.8	11.3	a
SmåParceller	2	11.0	0.4	17.54034	10.3	11.7	ab
StorParceller	2	11.5	0.4	17.54034	10.7	12.2	ab
SmåParceller	3	12.0	0.4	17.54034	11.2	12.7	bc
StorParceller	3	12.6	0.4	17.54034	11.8	13.3	c

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.6
LF1	0.7
ParcStr:LF1	1.0

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.27109
LF1	p = 0.00095
ParcStr:LF1	p = 0.53718



Proteinprocent, 2014 LBNR 005, Brønderslev, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	3.3597173	3.3597173	1	15.00001	87.628450	1.182679e-07
LF1	13.6246545	6.8123272	2	15.00001	177.679732	3.597533e-11
ParcStr:LF1	0.4122464	0.2061232	2	15.00001	5.376124	1.736084e-02

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	7.8	0.1	4.04639	7.5	8.1	a
StorParceller	8.6	0.1	4.04639	8.3	8.9	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	7.3	0.1	5.186677	7.0	7.6	a
2	8.2	0.1	5.186677	7.9	8.5	b
3	9.1	0.1	5.186677	8.8	9.4	c

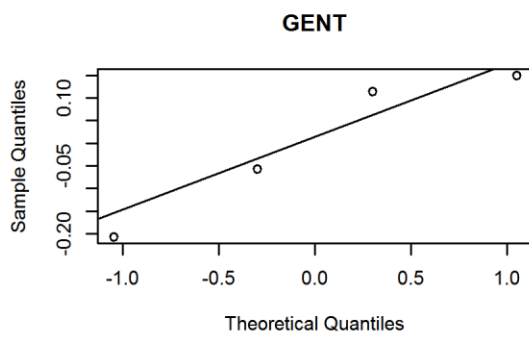
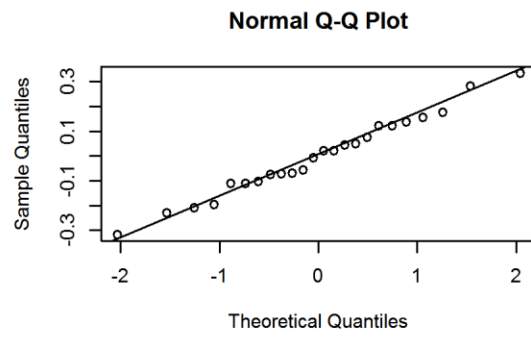
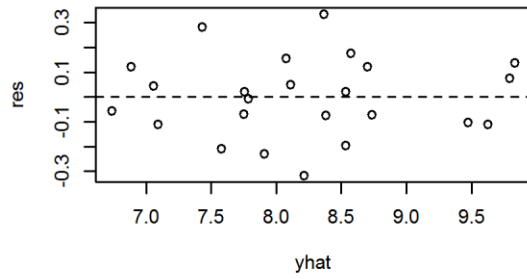
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	6.9	0.1	8.777557	6.6	7.2	a
StorParceller	1	7.6	0.1	8.777557	7.3	7.9	b
SmåParceller	2	8.0	0.1	8.777557	7.7	8.3	c
StorParceller	2	8.4	0.1	8.777557	8.1	8.7	d
SmåParceller	3	8.6	0.1	8.777557	8.3	8.9	d
StorParceller	3	9.7	0.1	8.777557	9.4	10.0	e

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.2
ParcStr:LF1	0.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p < 0.001
LF1	p < 0.001
ParcStr:LF1	p = 0.01736



Proteinprocent, 2014 LBNR 006, Vojens, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	1.49470468	1.49470468	1	15	10.9721916	4.736626e-03
LF1	16.30847345	8.15423673	2	15	59.8578764	7.080197e-08
ParcStr:LF1	0.05372929	0.02686464	2	15	0.1972055	8.231166e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.4	0.1	9.626796	10.2	10.7	a
StorParceller	10.9	0.1	9.626796	10.7	11.2	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	9.5	0.1	14.61239	9.2	9.8	a
2	11.3	0.1	14.61239	11.0	11.5	b
3	11.2	0.1	14.61239	10.9	11.5	b

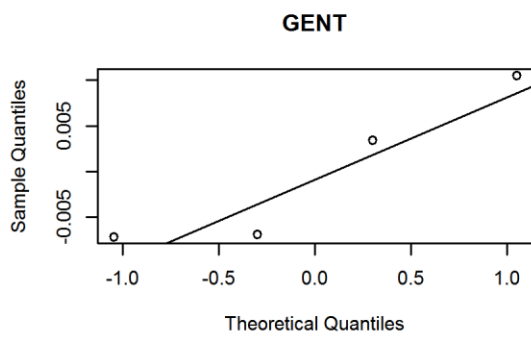
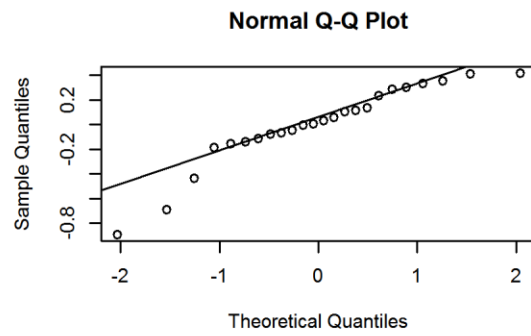
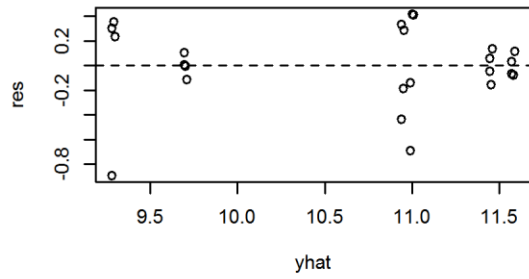
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	9.3	0.2	17.99158	8.9	9.7	a
StorParceller	1	9.7	0.2	17.99158	9.3	10.1	a
SmåParceller	2	10.9	0.2	17.99158	10.6	11.3	b
StorParceller	2	11.6	0.2	17.99158	11.2	12.0	c
SmåParceller	3	11.0	0.2	17.99158	10.6	11.4	b
StorParceller	3	11.5	0.2	17.99158	11.1	11.8	bc

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.3
LF1	0.4
ParcStr:LF1	0.6

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.00474
LF1	p < 0.001
ParcStr:LF1	p = 0.82312



Proteinprocent, 2015 LBNR 001, Ringsted, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	2.566754	2.566754	1	18	2.891185	0.1062783872
LF1	19.445522	9.722761	2	18	10.951695	0.0007733291
ParcStr:LF1	3.320840	1.660420	2	18	1.870293	0.1828147900

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	9.5	0.3	10	8.9	10.1	a
StorParceller	10.1	0.3	10	9.5	10.7	a

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	10.8	0.3	15	10.1	11.5	a
2	10.0	0.3	15	9.2	10.7	a
3	8.6	0.3	15	7.9	9.3	b

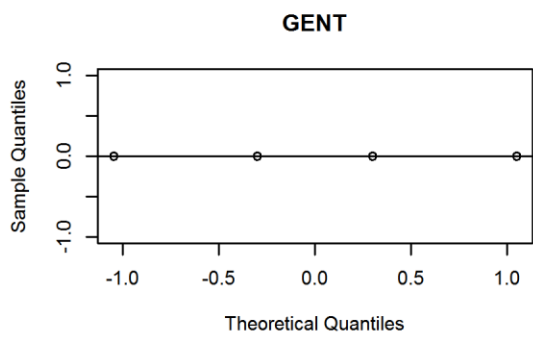
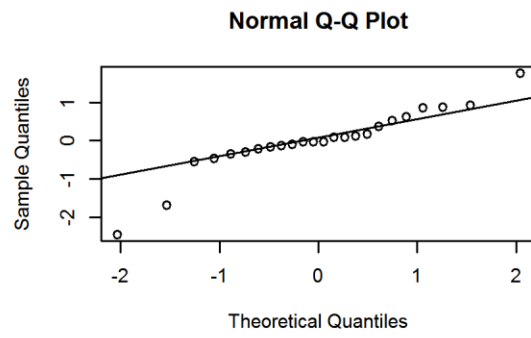
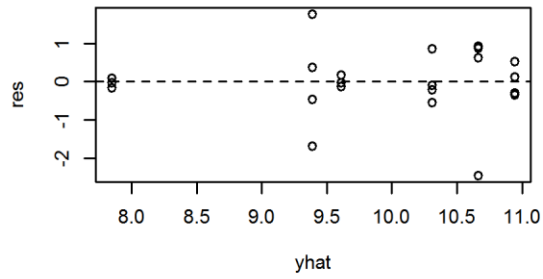
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	10.9	0.5	18	10.0	11.9	a
StorParceller	1	10.7	0.5	18	9.7	11.7	ab
SmåParceller	2	9.6	0.5	18	8.6	10.6	ab
StorParceller	2	10.3	0.5	18	9.3	11.3	ab
SmåParceller	3	7.8	0.5	18	6.9	8.8	c
StorParceller	3	9.4	0.5	18	8.4	10.4	b

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.8
LF1	1.0
ParcStr:LF1	1.4

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.10628
LF1	p = 0.00077
ParcStr:LF1	p = 0.18281



Proteinprocent, 2015 LBNR 002, Hjerm, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	0.4782190	0.4782190	1	15.00001	9.247730	8.253435e-03
LF1	57.2405135	28.6202567	2	15.00001	553.454383	8.881784e-15
ParcStr:LF1	0.2838052	0.1419026	2	15.00001	2.744092	9.647359e-02

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	9.9	0.1	3.882515	9.5	10.2	a
StorParceller	9.6	0.1	3.882515	9.2	9.9	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.9	0.1	4.837057	11.5	12.2	a
2	8.9	0.1	4.837057	8.5	9.3	b
3	8.4	0.1	4.837057	8.0	8.7	c

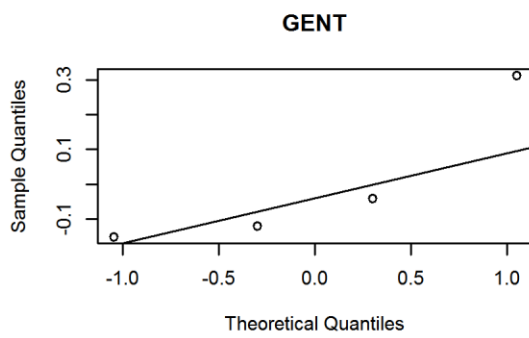
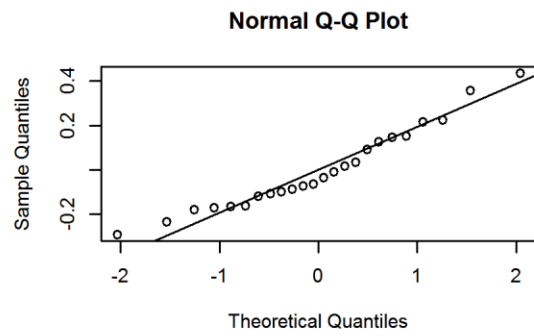
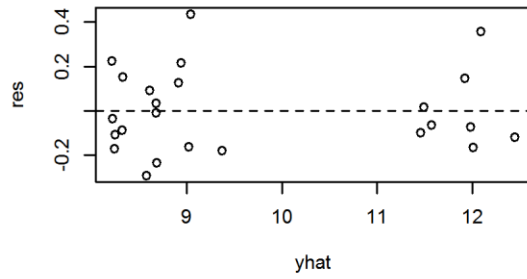
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	12.1	0.2	7.890319	11.8	12.5	a
StorParceller	1	11.6	0.2	7.890319	11.2	12.0	b
SmåParceller	2	9.1	0.2	7.890319	8.7	9.4	c
StorParceller	2	8.7	0.2	7.890319	8.4	9.1	c
SmåParceller	3	8.4	0.2	7.890319	8.0	8.7	d
StorParceller	3	8.4	0.2	7.890319	8.0	8.7	d

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.2
ParcStr:LF1	0.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.00825
LF1	p < 0.001
ParcStr:LF1	p = 0.09647



Proteinprocent, 2015 LBNR 003, Holeby, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	1.245492	1.2454919	1	18.00001	27.71612	5.255026e-05
LF1	45.074862	22.5374311	2	18.00001	501.52881	2.220446e-16
ParcStr:LF1	1.756151	0.8780755	2	18.00001	19.53995	3.083923e-05

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.2	0.1	10	10.1	10.3	a
StorParceller	9.7	0.1	10	9.6	9.9	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.8	0.1	15	11.6	11.9	a
2	9.7	0.1	15	9.5	9.8	b
3	8.5	0.1	15	8.3	8.6	c

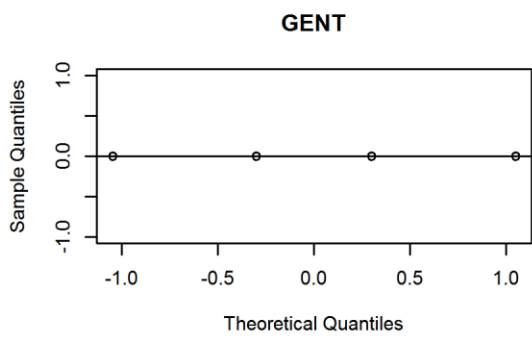
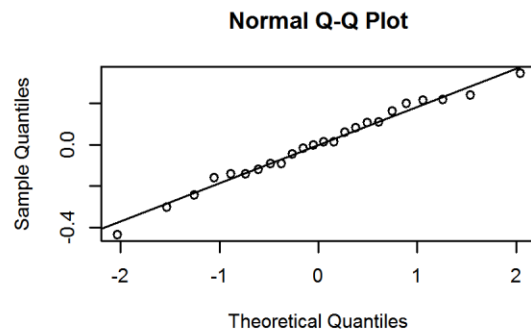
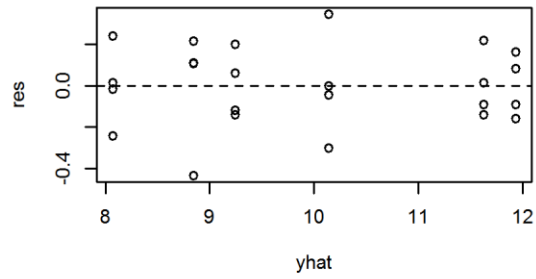
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.6	0.1	18	11.4	11.8	a
StorParceller	1	11.9	0.1	18	11.7	12.2	a
SmåParceller	2	10.1	0.1	18	9.9	10.4	b
StorParceller	2	9.2	0.1	18	9.0	9.5	c
SmåParceller	3	8.8	0.1	18	8.6	9.1	d
StorParceller	3	8.1	0.1	18	7.8	8.3	e

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.2
ParcStr:LF1	0.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 5e-05
LF1	p < 0.001
ParcStr:LF1	p = 3e-05



Proteinprocent, 2015 LBNR 004, Rønde, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	9.203207	9.2032068	1	18	40.961024	5.019113e-06
LF1	26.836850	13.4184248	2	18	59.721837	1.133259e-08
ParcStr:LF1	1.172585	0.5862925	2	18	2.609432	1.011309e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.5	0.1	10	10.2	10.8	a
StorParceller	9.3	0.1	10	9.0	9.6	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.3	0.2	15	10.9	11.6	a
2	9.7	0.2	15	9.3	10.0	b
3	8.7	0.2	15	8.3	9.1	c

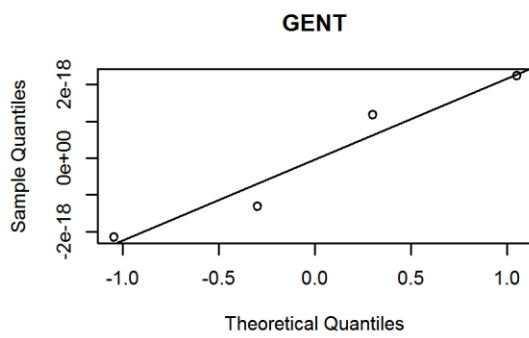
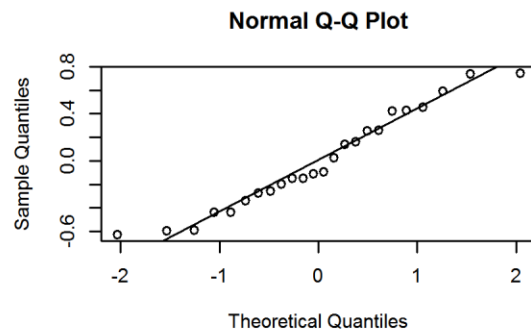
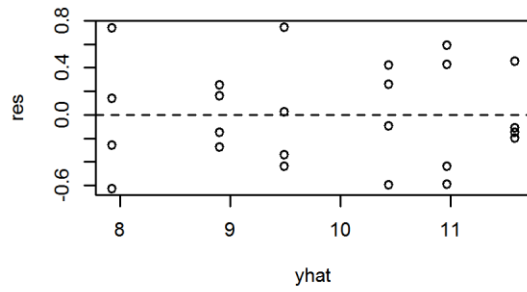
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.6	0.2	18	11.1	12.1	a
StorParceller	1	11.0	0.2	18	10.5	11.5	ab
SmåParceller	2	10.4	0.2	18	9.9	10.9	b
StorParceller	2	8.9	0.2	18	8.4	9.4	c
SmåParceller	3	9.5	0.2	18	9.0	10.0	c
StorParceller	3	7.9	0.2	18	7.4	8.4	d

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.4
LF1	0.5
ParcStr:LF1	0.7

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 1e-05
LF1	p < 0.001
ParcStr:LF1	p = 0.10113



Proteinprocent, 2015 LBNR 006, Brønderslev, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	4.44616973	4.44616973	1	15	48.37041744	4.615538e-06
LF1	6.47089813	3.23544906	2	15	35.19884108	2.161912e-06
ParcStr:LF1	0.01738444	0.00869222	2	15	0.09456371	9.103078e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	9.0	0.1	8.961749	8.8	9.2	a
StorParceller	8.1	0.1	8.961749	7.9	8.3	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	9.2	0.1	13.84781	8.9	9.4	a
2	8.6	0.1	13.84781	8.4	8.9	b
3	7.9	0.1	13.84781	7.6	8.1	c

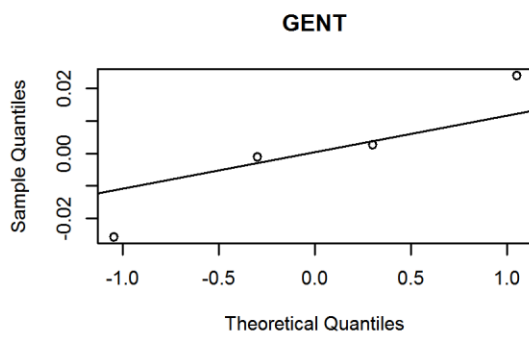
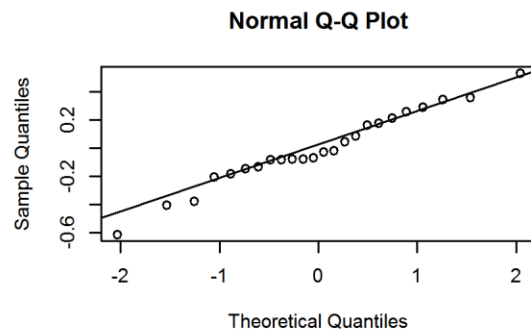
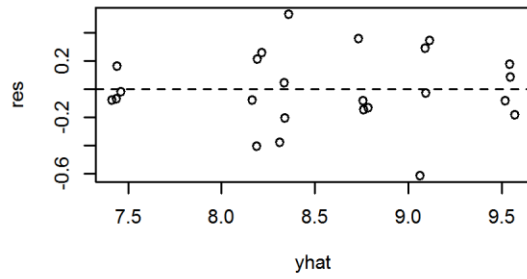
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	9.5	0.2	17.92533	9.2	9.9	a
StorParceller	1	8.8	0.2	17.92533	8.4	9.1	bc
SmåParceller	2	9.1	0.2	17.92533	8.8	9.4	ab
StorParceller	2	8.2	0.2	17.92533	7.9	8.5	d
SmåParceller	3	8.3	0.2	17.92533	8.0	8.7	cd
StorParceller	3	7.4	0.2	17.92533	7.1	7.8	e

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.3
LF1	0.3
ParcStr:LF1	0.5

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p < 0.001
LF1	p < 0.001
ParcStr:LF1	p = 0.91031



Proteinprocent, 2015 LBNR 007, Vojens, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	3.518713156	3.518713156	1	18.00001	59.25172283	4.224452e-07
LF1	63.094154057	31.547077028	2	18.00001	531.22223414	1.110223e-16
ParcStr:LF1	0.007776808	0.003888404	2	18.00001	0.06547695	9.368427e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.7	0.1	10	10.5	10.8	a
StorParceller	9.9	0.1	10	9.8	10.1	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	12.2	0.1	15	12.0	12.4	a
2	10.5	0.1	15	10.3	10.7	b
3	8.2	0.1	15	8.0	8.4	c

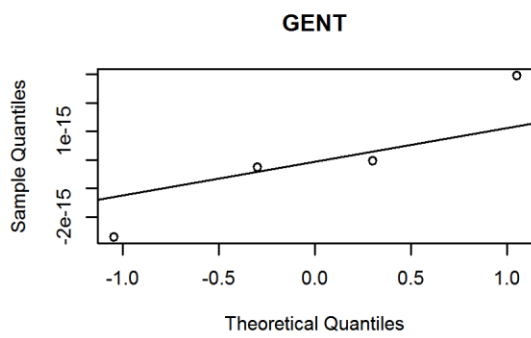
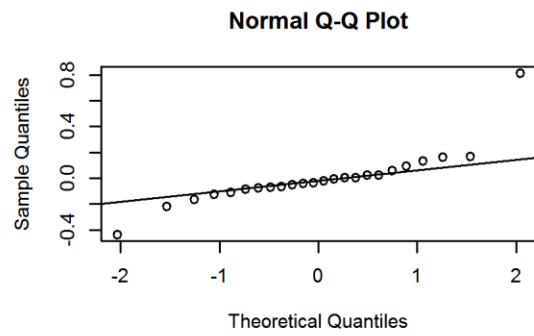
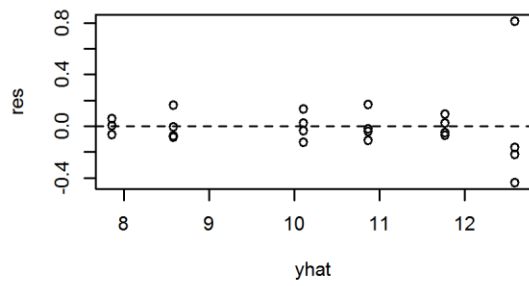
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	12.6	0.1	18	12.3	12.8	a
StorParceller	1	11.8	0.1	18	11.5	12.0	b
SmåParceller	2	10.9	0.1	18	10.6	11.1	c
StorParceller	2	10.1	0.1	18	9.8	10.4	d
SmåParceller	3	8.6	0.1	18	8.3	8.8	e
StorParceller	3	7.9	0.1	18	7.6	8.1	f

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.3
ParcStr:LF1	0.4

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p < 0.001
LF1	p < 0.001
ParcStr:LF1	p = 0.93684



Proteinprocent, 2016 LBNR 001, Ringsted, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	0.3153750	0.31537500	1	13.48101	16.289539	1.317741e-03
LF1	21.6181366	10.80906830	2	14.08696	558.302784	3.852474e-14
ParcStr:LF1	0.1589773	0.07948864	2	13.48101	4.105694	4.050531e-02

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.0	0	8.368732	9.9	10.1	a
StorParceller	10.2	0	8.368732	10.1	10.3	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.2	0.1	11.95267	11.1	11.4	a
2	10.3	0.1	11.95267	10.2	10.4	b
3	8.7	0.1	12.56522	8.6	8.9	c

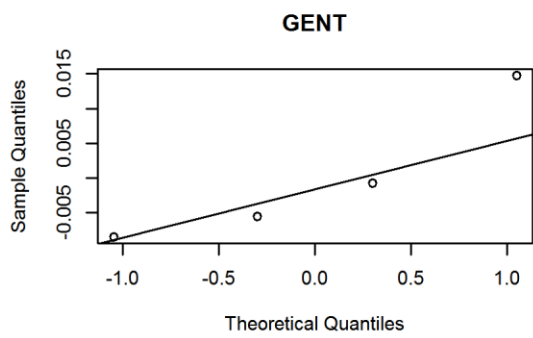
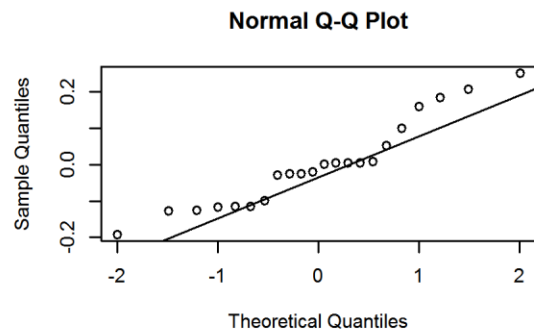
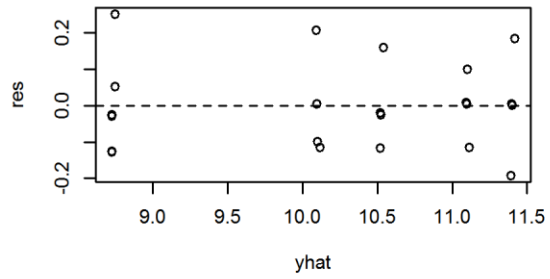
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.1	0.1	15.91733	10.9	11.3	a
StorParceller	1	11.4	0.1	15.91733	11.2	11.6	b
SmåParceller	2	10.1	0.1	15.91733	9.9	10.3	c
StorParceller	2	10.5	0.1	15.91733	10.4	10.7	d
SmåParceller	3	8.7	0.1	15.97312	8.6	8.9	e
StorParceller	3	8.7	0.1	15.97312	8.6	8.9	e

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.1
LF1	0.2
ParcStr:LF1	0.2

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.00132
LF1	p < 0.001
ParcStr:LF1	p = 0.04051



Proteinprocent, 2016 LBNR 002, Rønde, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	0.3085673	0.3085673	1	14.16617	5.707822	3.133355e-02
LF1	12.6687508	6.3343754	2	14.16111	117.172152	1.549168e-09
ParcStr:LF1	0.5723622	0.2861811	2	14.16111	5.293727	1.919995e-02

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.5	0.1	4.688726	10.2	10.8	a
StorParceller	10.3	0.1	5.142737	10.0	10.5	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.3	0.1	7.692926	11.1	11.6	a
2	10.3	0.1	6.665131	10.1	10.6	b
3	9.5	0.1	6.665131	9.2	9.7	c

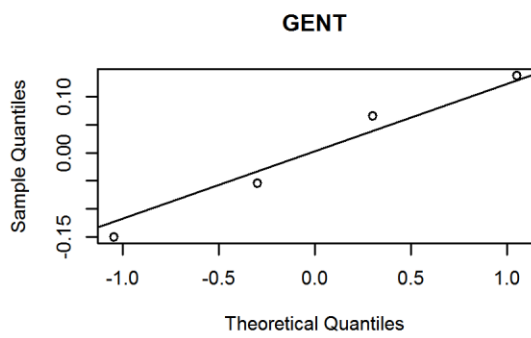
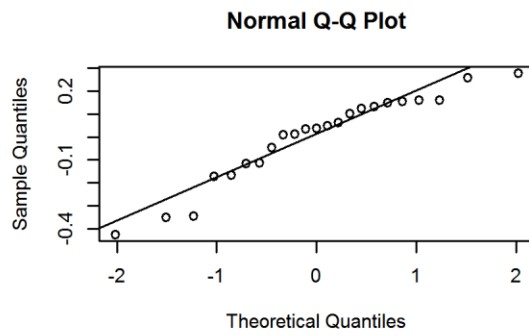
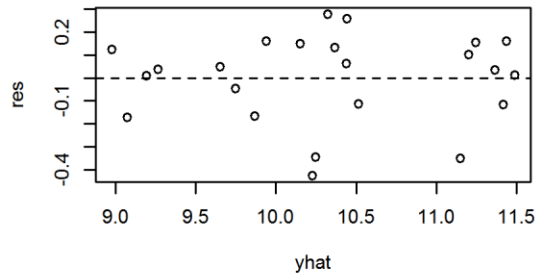
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.3	0.1	11.99332	11.0	11.6	a
StorParceller	1	11.3	0.2	14.20870	11.0	11.7	a
SmåParceller	2	10.4	0.1	11.99332	10.1	10.7	b
StorParceller	2	10.3	0.1	11.99332	10.0	10.6	b
SmåParceller	3	9.8	0.1	11.99332	9.5	10.1	c
StorParceller	3	9.1	0.1	11.99332	8.8	9.4	d

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.3
ParcStr:LF1	0.4

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.03133
LF1	p < 0.001
ParcStr:LF1	p = 0.0192



Proteinprocent, 2016 LBNR 003, Brønderslev, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	0.7004167	0.7004167	1	15	6.990574	1.841185e-02
LF1	24.7558333	12.3779167	2	15	123.538952	4.813434e-10
ParcStr:LF1	0.7158333	0.3579167	2	15	3.572221	5.385164e-02

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.0	0.1	7.13261	9.8	10.3	a
StorParceller	9.7	0.1	7.13261	9.4	9.9	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.1	0.1	11.22124	10.8	11.4	a
2	9.8	0.1	11.22124	9.6	10.1	b
3	8.6	0.1	11.22124	8.3	8.9	c

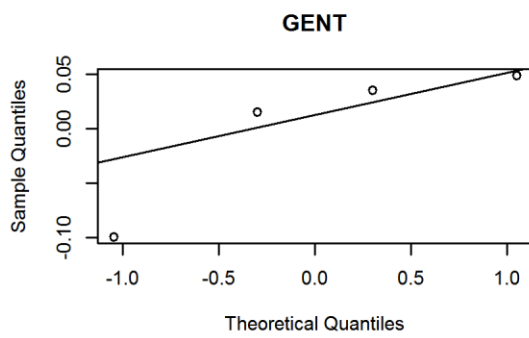
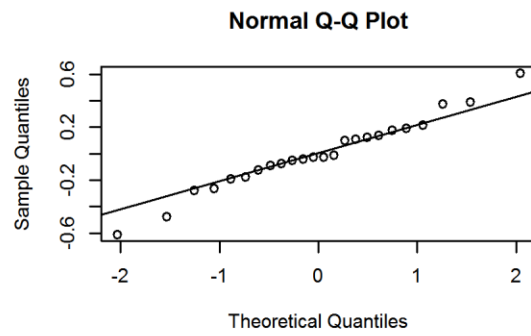
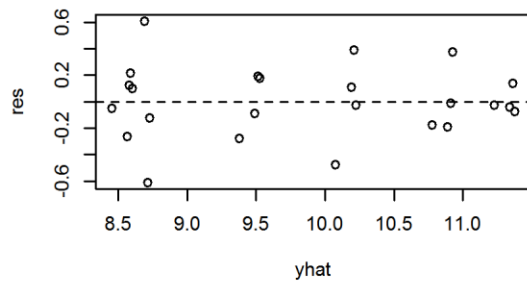
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.3	0.2	17.11625	11.0	11.7	a
StorParceller	1	10.9	0.2	17.11625	10.5	11.2	a
SmåParceller	2	10.2	0.2	17.11625	9.8	10.5	b
StorParceller	2	9.5	0.2	17.11625	9.1	9.8	c
SmåParceller	3	8.6	0.2	17.11625	8.2	8.9	d
StorParceller	3	8.7	0.2	17.11625	8.3	9.0	d

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.3
LF1	0.3
ParcStr:LF1	0.5

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p = 0.01841
LF1	p < 0.001
ParcStr:LF1	p = 0.05385



Proteinprocent, 2016 LBNR 004, Holeby, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	3.0800439	3.0800439	1	17.00001	97.11421	1.918067e-08
LF1	19.8165833	9.9082917	2	17.00001	312.40981	3.941292e-14
ParcStr:LF1	0.7363333	0.3681667	2	17.00001	11.60835	6.627674e-04

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.3	0.1	9.189189	10.1	10.4	a
StorParceller	9.5	0.1	10.068108	9.4	9.6	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.0	0.1	14.02062	10.9	11.1	a
2	9.9	0.1	14.02062	9.8	10.1	b
3	8.7	0.1	14.70432	8.5	8.8	c

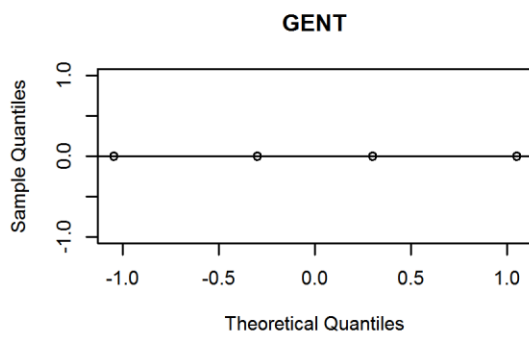
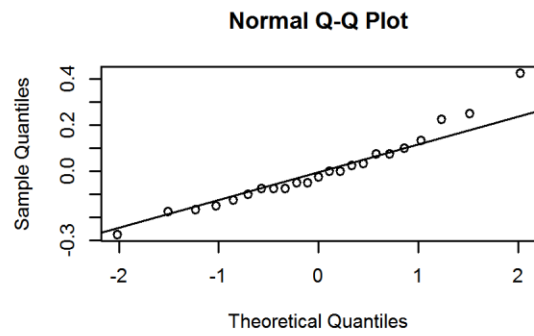
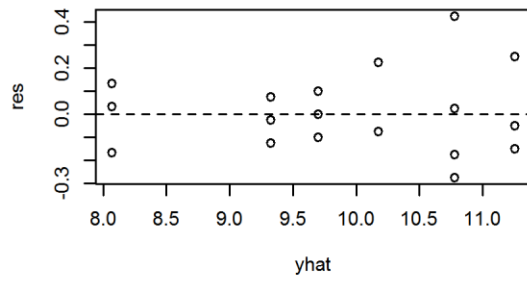
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.3	0.1	17	11.1	11.4	a
StorParceller	1	10.8	0.1	17	10.6	11.0	b
SmåParceller	2	10.2	0.1	17	10.0	10.4	c
StorParceller	2	9.7	0.1	17	9.5	9.9	d
SmåParceller	3	9.3	0.1	17	9.1	9.5	e
StorParceller	3	8.1	0.1	17	7.8	8.3	f

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.2
ParcStr:LF1	0.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p < 0.001
LF1	p < 0.001
ParcStr:LF1	p = 0.00066



Proteinprocent, 2016 LBNR 006, Vojens, Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	2.04166667	2.041666667	1	15.00001	49.2627347	4.148368e-06
LF1	7.35583333	3.677916667	2	15.00001	88.7432978	4.871673e-09
ParcStr:LF1	0.01083333	0.005416667	2	15.00001	0.1306971	8.784719e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	11.6	0.1	4.935832	11.4	11.9	a
StorParceller	11.0	0.1	4.935832	10.8	11.3	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.9	0.1	7.071538	11.7	12.2	a
2	11.5	0.1	7.071538	11.2	11.7	b
3	10.6	0.1	7.071538	10.4	10.8	c

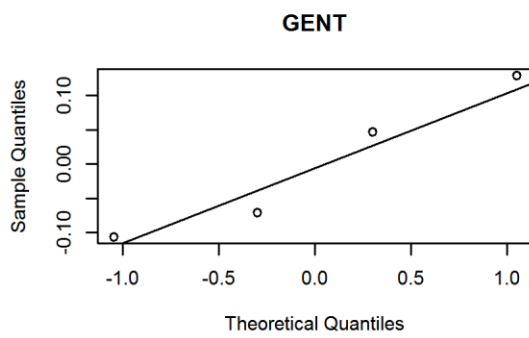
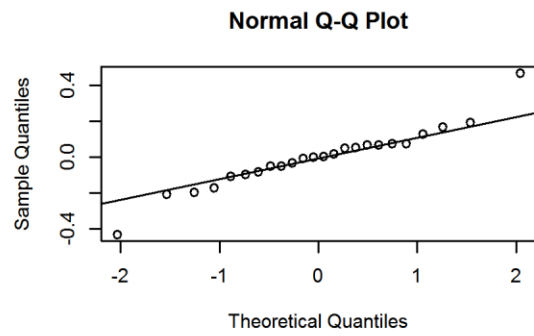
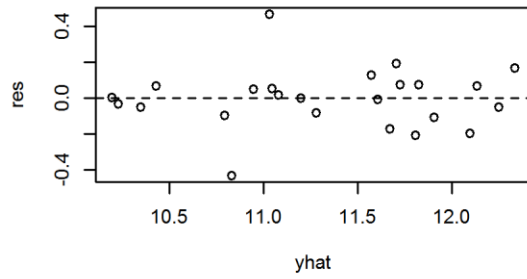
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	12.2	0.1	12.77197	11.9	12.5	a
StorParceller	1	11.7	0.1	12.77197	11.4	11.9	b
SmåParceller	2	11.8	0.1	12.77197	11.5	12.0	b
StorParceller	2	11.2	0.1	12.77197	10.9	11.4	c
SmåParceller	3	10.9	0.1	12.77197	10.6	11.2	c
StorParceller	3	10.3	0.1	12.77197	10.0	10.6	d

LSD for fixed effects

	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.2
ParcStr:LF1	0.3

p-værdier for fixed effects

	outprot[[i]]\$pvalues
ParcStr	p < 0.001
LF1	p < 0.001
ParcStr:LF1	p = 0.87847



Proteinprocent, 2014 Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	4.9097767	4.9097767	1	55.00009	18.3672732	7.391049e-05
LF1	36.8295570	18.4147785	2	55.00009	68.8889307	1.110223e-15
ParcStr:LF1	0.4460042	0.2230021	2	55.00009	0.8342417	4.396228e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	9.8	1	2.016056	5.7	13.9	a
StorParceller	10.3	1	2.016056	6.2	14.5	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	9.1	1	2.032175	5.0	13.2	a
2	10.2	1	2.032175	6.1	14.3	b
3	10.9	1	2.032175	6.8	15.0	c

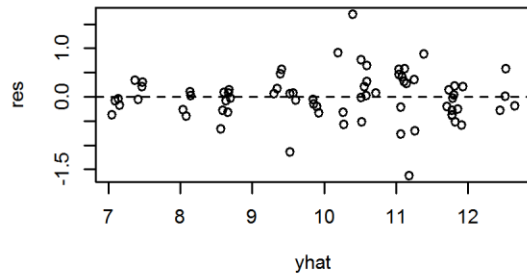
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	9.0	1	2.080899	4.9	13.0	a
StorParceller	1	9.3	1	2.080899	5.3	13.3	a
SmåParceller	2	10.0	1	2.080899	5.9	14.0	b
StorParceller	2	10.5	1	2.080899	6.5	14.5	c
SmåParceller	3	10.5	1	2.080899	6.5	14.5	c
StorParceller	3	11.2	1	2.080899	7.2	15.3	d

LSD for fixed effects

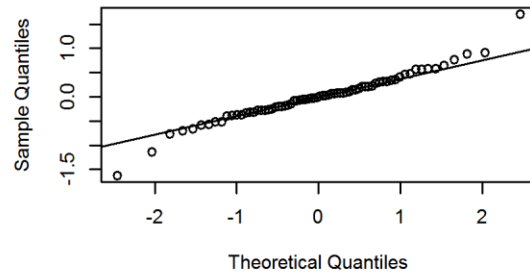
	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.3
ParcStr:LF1	0.4

p-værdier for fixed effects

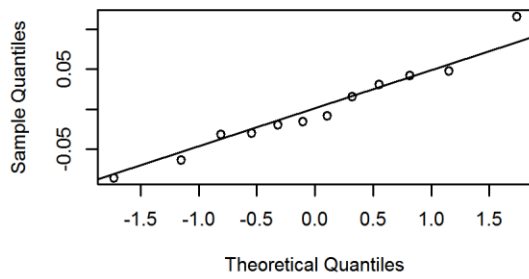
	outprot[[i]]\$pvalues
ParcStr	p = 7e-05
LF1	p < 0.001
ParcStr:LF1	p = 0.43962



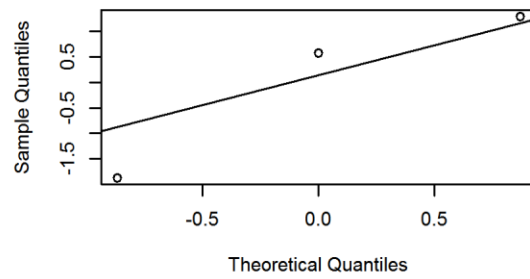
Normal Q-Q Plot



GENT:LBNR



LBNR



Proteinprocent, 2015 Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	8.6965813	8.6965813	1	133	15.8546853	0.0001119908
LF1	189.7085478	94.8542739	2	133	172.9282577	0.0000000000
ParcStr:LF1	0.3128991	0.1564496	2	133	0.2852223	0.7523058290

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	9.9	0.3	5.666042	9.3	10.6	a
StorParceller	9.5	0.3	5.666042	8.8	10.1	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.2	0.3	6.37127	10.6	11.8	a
2	9.6	0.3	6.37127	8.9	10.2	b
3	8.4	0.3	6.37127	7.8	9.0	c

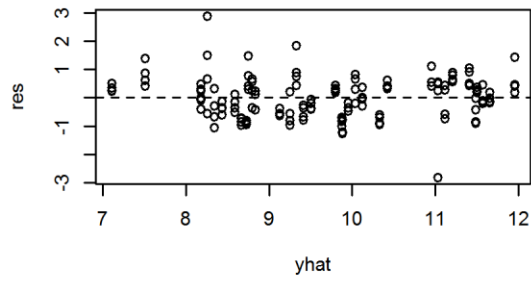
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.4	0.3	8.713368	10.8	12.0	a
StorParceller	1	10.9	0.3	8.713368	10.3	11.6	b
SmåParceller	2	9.9	0.3	8.713368	9.2	10.5	c
StorParceller	2	9.2	0.3	8.713368	8.6	9.9	d
SmåParceller	3	8.6	0.3	8.713368	7.9	9.2	e
StorParceller	3	8.2	0.3	8.713368	7.5	8.8	e

LSD for fixed effects

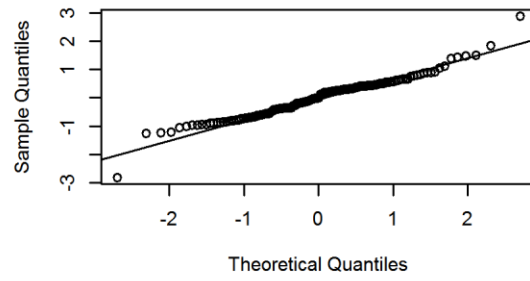
	outprot[[i]]\$LSD
ParcStr	0.2
LF1	0.3
ParcStr:LF1	0.4

p-værdier for fixed effects

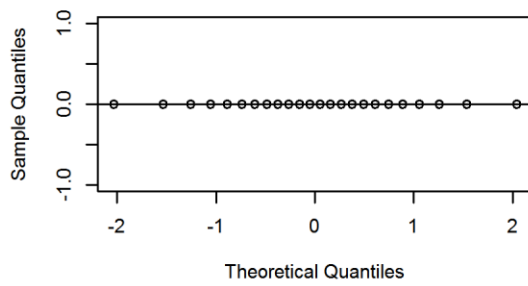
	outprot[[i]]\$pvalues
ParcStr	p = 0.00011
LF1	p < 0.001
ParcStr:LF1	p = 0.75231



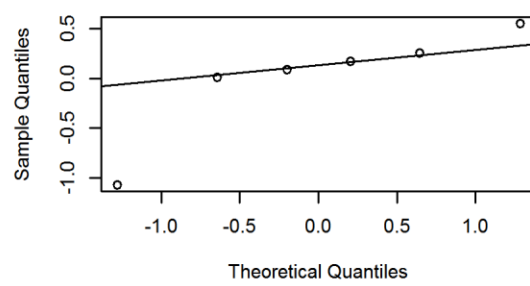
Normal Q-Q Plot



GENT:LBNR



LBNR



Proteinprocent, 2016 Råprotein (pct)

ANOVA tabel for fixed effects

	Sum Sq	Mean Sq	NumDF	DenDF	F.value	Pr(>F)
ParcStr	3.1528876	3.1528876	1	106.0053	22.882322	5.591964e-06
LF1	81.4060498	40.7030249	2	106.0102	295.405301	0.000000e+00
ParcStr:LF1	0.3342948	0.1671474	2	106.0062	1.213085	3.013716e-01

LSmeans for fixed effects

ParcStr	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	10.5	0.3	4.126126	9.7	11.2	a
StorParceller	10.2	0.3	4.135638	9.4	10.9	b

LF1	lsmean	SE	df	lower.CL	upper.CL	.group
1	11.3	0.3	4.260057	10.6	12.1	a
2	10.4	0.3	4.249509	9.6	11.1	b
3	9.3	0.3	4.282816	8.5	10.0	c

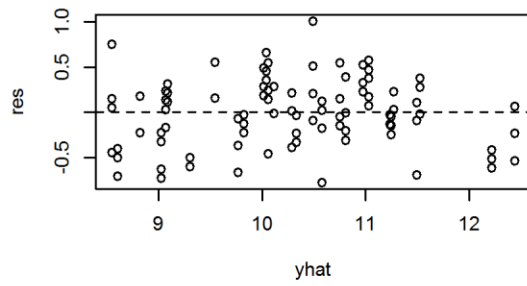
ParcStr	LF1	lsmean	SE	df	lower.CL	upper.CL	.group
SmåParceller	1	11.4	0.3	4.644649	10.7	12.2	a
StorParceller	1	11.2	0.3	4.688739	10.5	12.0	a
SmåParceller	2	10.5	0.3	4.644649	9.8	11.3	b
StorParceller	2	10.2	0.3	4.644649	9.5	11.0	c
SmåParceller	3	9.5	0.3	4.688791	8.8	10.2	d
StorParceller	3	9.0	0.3	4.737310	8.3	9.8	e

LSD for fixed effects

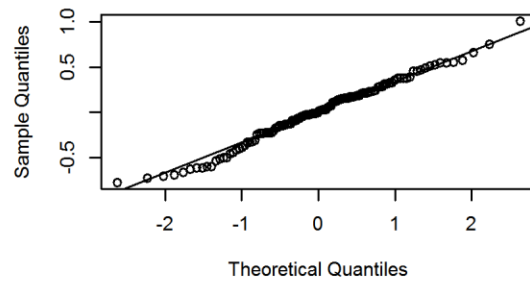
	outprot[[i]]\$LSD
ParcStr	0.1
LF1	0.2
ParcStr:LF1	0.2

p-værdier for fixed effects

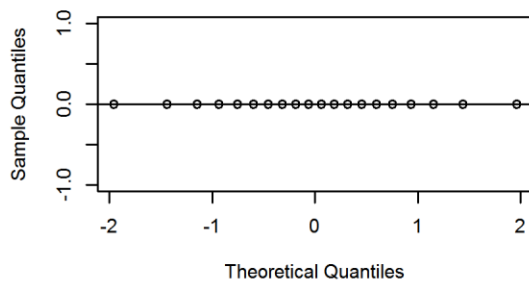
	outprot[[i]]\$pvalues
ParcStr	p = 1e-05
LF1	p < 0.001
ParcStr:LF1	p = 0.30137



Normal Q-Q Plot



GENT:LBNR



LBNR

