HW3

Blain Morin

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Question 2:

Table 2:

	Dependent variable:
	activity
which.floor1	−0.873***
	(0.090)
has.basement1	−0.098
	(0.106)
is.sfh1	0.200
	(0.122)
Constant	1.289***
	(0.137)
Observations	1,182
Log Likelihood	−1,727.397
Akaike Inf. Crit.	3,470.795
Bayesian Inf. Crit.	3,511.394
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 1:

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
activity	1,182	1.072	1.132	−11.513	0.531	1.705	3.875
which.floor0	1,182	0.777	0.417	0	1	1	1
which.floor1	1,182	0.223	0.417	0	0	0	1
has.basement1	1,182	0.843	0.363	0	1	1	1
is.sfh1	1,182	0.928	0.258	0	1	1	1
countyADAIR	1,182	0.000	0.000	0	0	0	0
countyADAMS	1,182	0.000	0.000	0	0	0	0
countyAITKIN	1,182	0.003	0.058	0	0	0	1
countyALLEGHENY	1,182	0.000	0.000	0	0	0	0
countyALLEN	1,182	0.000	0.000	0	0	0	0
countyANDREW	1,182	0.000	0.000	0	0	0	0
countyANOKA	1,182	0.044	0.205	0	0	0	1
countyAPACHE	1,182	0.000	0.000	0	0	0	0
countyARMSTRONG	1,182	0.000	0.000	0	0	0	0
countyATCHISON	1,182	0.000	0.000	0	0	0	0
countyAUDRAIN	1,182	0.000	0.000	0	0	0	0
countyBAD RIVER	1,182	0.000	0.000	0	0	0	0
countyBARNES	1,182	0.000	0.000	0	0	0	0
countyBARNSTABLE	1,182	0.000	0.000	0	0	0	0
countyBARRY	1,182	0.000	0.000	0	0	0	0
countyBARTHOLOMEW	1,182	0.000	0.000	0	0	0	0
countyBARTON	1,182	0.000	0.000	0	0	0	0
countyBATES	1,182	0.000	0.000	0	0	0	0
countyBAY MILLS	1,182	0.000	0.000	0	0	0	0
countyBEAVER	1,182	0.000	0.000	0	0	0	0
countyBECKER	1,182	0.003	0.050	0	0	0	1
countyBEDFORD	1,182	0.000	0.000	0	0	0	0
countyBELTRAMI	1,182	0.006	0.077	0	0	0	1
countyBENSON	1,182	0.000	0.000	0	0	0	0
countyBENTON	1,182	0.003	0.058	0	0	0	1
countyBERKS	1,182	0.000	0.000	0	0	0	0
countyBERKSHIRE	1,182	0.000	0.000	0	0	0	0
countyBIG STONE	1,182	0.003	0.050	0	0	0	1
countyBILLINGS	1,182	0.000	0.000	0	0	0	0
countyBLACKFORD	1,182	0.000	0.000	0	0	0	0
countyBLAIR	1,182	0.000	0.000	0	0	0	0
countyBLUE EARTH	1,182	0.012	0.108	0	0	0	1
countyBOIS FORTE	1,182	0.016	0.126	0	0	0	1
countyBOLLINGER	1,182	0.000	0.000	0	0	0	0
countyBOONE	1,182	0.000	0.000	0	0	0	0
countyBOTTINEAU	1,182	0.000	0.000	0	0	0	0
countyBOWMAN	1,182	0.000	0.000	0	0	0	0
countyBRADFORD	1,182	0.000	0.000	0	0	0	0
countyBRISTOL	1,182	0.000	0.000	0	0	0	0
countyBROWN	1,182	0.003	0.058	0	0	0	1
countyBUCHANAN	1,182	0.000	0.000	0	0	0	0
countyBUCKS	1,182	0.000	0.000	0	0	0	0
countyBURKE	1,182	0.000	0.000	0	0	0	0
countyBURLEIGH	1,182	0.000	0.000	0	0	0	0
countyBUTLER	1,182	0.000	0.000	0	0	0	0
countyCALDWELL	1,182	0.000	0.000	0	0	0	0
countyCALLAWAY	1,182	0.000	0.000	0	0	0	0
countyCAMBRIA	1,182	0.000	0.000	0	0	0	0
countyCAMDEN	1,182	0.000	0.000	0	0	0	0
countyCAMERON	1,182	0.000	0.000	0	0	0	0
countyCAPE GIRARDEAU	1,182	0.000	0.000	0	0	0	0
countyCARBON	1,182	0.000	0.000	0	0	0	0

County Random Effect Distibutions

Predicted (Black) vs Observed (Red)

Residuals QQ Plot