*Note: I did not update my dataset from last year, so your numbers will differ. But, the difference should not be pronounced and the reasoning will be similar.

2) Prepare to analyze the data: See the do file, Appendix A

- 3) Static Model
- a) Explain why the size of Florida's labor force, the prime age employment to population ratio, and Florida building permits, might be closely related to the number of nonfarm jobs in Florida in a static long run sense.

We can think of the number employed as the product of the portion of those in the labor market that are employed and the number that want work and so are in the market. Then the log of total employment is the sum of the logs of those two pieces. From there:

- The number that want to work should closely track labor force in Florida.
- The fraction of those that want to be employed that are employed tracks the strength of the Florida economy, which closely tracks the strength of the national economy, for which the employment to population ratio is a good proxy.
- Construction is a large part of Florida's economic base, due to constant in-migration. So, variations in the strength of the economy may be reflected somewhat in building permits.
- Estimate the static model relating monthly nonfarm employment in Florida to the other three variables (all in logs) without controlling for seasonal impacts or a time trend.
 Results in the table on the next page.
- c) Estimate the static model with month indicators and a time trend. See the do file for the code. Results in the table on the next page.
- d) Compare your results from b and c and interpret any differences. What do the seasonal and time trend variables contribute?

All three coefficients change slightly. The time trend controls for growth at a constant rate over time, while the month indicators control for seasonality. For example, construction employment varies with the weather, employment always varies with holidays, and in Florida employment also varies with tourist season. Presumably, controlling for these effects allows the model to better reveal the underlying relationships between the other variables. (The caveat is we have not checked this data for stationarity or weak dependence, which comes later.)

e) Why should you be cautious using the results of these models for testing any hypotheses about the underlying relationships?

The sampling independence required for the standard error calculations is obviously violated in time series data, so it is likely the standard errors are incorrect.

Models for question 3

	Models for question	
Question	3A	3B
lnfllf	1.116***	0.921***
	(0.00921)	(0.0353)
lnusepr	0.784***	1.230***
	(0.0587)	(0.0476)
lnflbp	0.0442***	0.0351***
	(0.00317)	(0.00191)
2.month		0.00314
		(0.00312)
3.month		-0.00324
		(0.00312)
4.month		-0.00936**
		(0.00314)
5.month		-0.0212***
		(0.00315)
6.month		-0.0436***
		(0.00318)
7.month		-0.0611***
		(0.00321)
8.month		-0.0443***
		(0.00317)
9.month		-0.0315***
		(0.00316)
10.month		-0.0277***
		(0.00318)
11.month		-0.00891**
		(0.00321)
12.month		0.000140
		(0.00317)
date		0.000349***
		(0.0000550)
_cons	-12.56***	-11.38***
	(0.328)	(0.433)
N	384	384
R^2	0.979	0.994

- 4) Finite Distributed Lag Model
- a) Estimate the distributed lag model relating monthly nonfarm employment to lags 0 to 12 of the three predictor variables without month indicators and a time trend.

See do file and the table below.

- b) Estimate the model in (a) but add month indicators and a time trend. See the do file and the results table below.
- c) Compare your results from a and b and interpret any differences. What do the seasonal and time trend variables contribute?

This is largely the same as it was for question 3. The difference is that since we are controlling for one year ago, the lags themselves may capture some of the seasonal difference in the first model, and that adding seasonal effects purges that, changing the results potentially at all lags. This, though, it just more of the same basic thing.

- d) Estimate two alternative models that contain month indicators and a time trend but that impose a more parsimonious lag structure for the predictor variables. Explain your choices.
 Results are below. The most important lags would seem to be the most recent month, and the same month a year ago. So, in one version I include only the first lag, in the other I include lags 1 and 12. You may have chosen something else. As long as you can defend it, that is fine.
- 5) Provide a neat report writing up your answers to 3 and 4. Do not simply post screenshots of the Stata results window. Rather, provide neat professional looking tables of the results you obtain. Estout and estab are probably the easiest tools for this. Make sure any results you refer to in your answers appear near enough to the answers so that your overall submission is easy to make sense of. One exception to that might be when you need exceptionally long tables. Your report should not look like this solution. This solution just describes what should be in your report. The report itself needs to look more like a professional work product—though we will evolve toward that over time.
- 6) As Appendix A, include the clean do file to replicate your analysis. See appendix A below.
- 7) As Appendix B, include the log file of a run of your clean do file to your write up. See appendix B below.

Models for question 4

		Models for questio		
Question	4A	4B	4D1	4D2
lnfllf	0.248	0.402	1.006***	0.729*
	(0.257)	(0.273)	(0.296)	(0.294)
	(0.237)	(0.273)	(0.270)	(0.254)
L.lnfllf	0.0109	0.0216	-0.0917	-0.0327
L.IIIIIII				
	(0.340)	(0.361)	(0.300)	(0.311)
T 0 1 010	0.202	0.0040		
L2.lnfllf	0.392	-0.0949		
	(0.340)	(0.365)		
L3.lnfllf	0.668	0.172		
	(0.342)	(0.369)		
	,	,		
L4.lnfllf	-0.267	-0.0254		
2 mmm	(0.343)	(0.374)		
	(0.545)	(0.574)		
L5.lnfllf	-0.528	0.0227		
L3.IIIIII		0.0327		
	(0.342)	(0.372)		
L6.lnfllf	-0.0941	0.0871		
	(0.343)	(0.371)		
L7.lnfllf	0.202	0.184		
	(0.345)	(0.372)		
	()	()		
L8.lnfllf	-0.114	0.0890		
20.mm	(0.347)	(0.372)		
	(0.547)	(0.572)		
L9.lnfllf	0.382	0.197		
L9.IIIIIII				
	(0.345)	(0.375)		
T 10 1 010	0.0155	0.0444		
L10.lnfllf	-0.0175	0.0444		
	(0.342)	(0.378)		
L11.lnfllf	-0.0136	-0.275		
	(0.341)	(0.381)		
	` ,	` /		
L12.lnfllf	0.276	0.0831		0.181
	(0.259)	(0.288)		(0.0935)
	(0.237)	(0.200)		(0.0755)
lnusepr	0.766**	0.436	-0.148	0.0469
musepi				
	(0.281)	(0.350)	(0.370)	(0.372)
т 1	0.402	0.110	1 2 5 2 ***	0.077*
L.lnusepr	-0.403	0.119	1.352***	0.977*
	(0.394)	(0.464)	(0.368)	(0.394)
L2.lnusepr	-0.340	0.0714		
	(0.390)	(0.469)		
L3.lnusepr	-0.453	0.0791		
1	(0.388)	(0.470)		
	()	(, -)		
L4.lnusepr	0.262	0.211		
ът.musepi	(0.399)	(0.475)		
	(0.377)	(0.7/3)		

L5.lnusepr	1.044** (0.400)	-0.105 (0.476)			
L6.lnusepr	0.857* (0.398)	0.402 (0.474)			
L7.lnusepr	-0.203 (0.398)	0.0309 (0.475)			
L8.lnusepr	0.466 (0.399)	-0.103 (0.475)			
L9.lnusepr	-0.185 (0.393)	-0.114 (0.477)			
L10.lnusepr	-0.282 (0.388)	0.114 (0.478)			
L11.lnusepr	0.110 (0.387)	0.497 (0.477)			
L12.lnusepr	-0.600* (0.269)	-0.405 (0.351)		0.195* (0.0856)	
lnflbp	0.0202*** (0.00470)	0.0182*** (0.00438)	0.0254*** (0.00416)	0.0248*** (0.00414)	
L.lnflbp	0.00939 (0.00502)	0.00924 (0.00474)	0.0125** (0.00423)	0.0140** (0.00427)	
L2.lnflbp	0.0118* (0.00518)	0.00547 (0.00485)			
L3.lnflbp	0.00267 (0.00534)	0.00610 (0.00497)			
L4.lnflbp	0.00128 (0.00535)	0.00341 (0.00497)			
L5.lnflbp	0.00650 (0.00542)	0.00401 (0.00497)			
L6.lnflbp	0.00699 (0.00544)	0.00659 (0.00497)			
L7.lnflbp	0.00228 (0.00542)	0.00487 (0.00494)			
L8.lnflbp	-0.000869 (0.00544)	-0.00531 (0.00497)			
L9.lnflbp	0.00159 (0.00544)	-0.000821 (0.00493)			
L10.lnflbp	-0.00657 (0.00527)	-0.000485 (0.00480)			

L11.lnflbp	-0.00350 (0.00521)	-0.00568 (0.00471)		
L12.lnflbp	-0.00590 (0.00498)	-0.00338 (0.00447)		0.00388 (0.00289)
2.month		0.00921 (0.00706)	0.0229*** (0.00513)	0.0171** (0.00535)
3.month		0.0128 (0.00770)	0.0194*** (0.00511)	0.0129* (0.00531)
4.month		0.00990 (0.00853)	0.0119* (0.00595)	0.00508 (0.00623)
5.month		0.00526 (0.00612)	-0.00109 (0.00448)	-0.00688 (0.00458)
6.month		-0.00853 (0.00744)	-0.0187** (0.00577)	-0.0259*** (0.00598)
7.month		-0.0163* (0.00726)	-0.0423*** (0.00471)	-0.0474*** (0.00482)
8.month		-0.00797 (0.00774)	-0.0344*** (0.00400)	-0.0367*** (0.00405)
9.month		-0.00807 (0.00614)	-0.0213*** (0.00377)	-0.0241*** (0.00382)
10.month		-0.00658 (0.00834)	-0.00723 (0.00600)	-0.0130* (0.00626)
11.month		0.00936 (0.00768)	0.00453 (0.00492)	0.000589 (0.00510)
12.month		0.0184* (0.00730)	0.0135** (0.00424)	0.0101* (0.00434)
date		0.000358*** (0.0000504)	0.000359*** (0.0000526)	0.000416*** (0.0000571)
_cons	-14.10*** (0.209)	-11.44*** (0.428)	-11.20*** (0.416)	-10.75*** (0.480)
$N R^2$	372 0.995	372 0.997	383 0.995	372 0.995

Appendix A: Do File

```
*Time Series - Problem Set 1 Solution
*Spring 2020
clear
set more off
cd "C:\Users\jdewey\Documents\A S20 Time Series\Problem Sets\"
log using "Problem Set 2 Work", replace
import delimited using "us and florida economic time series.txt"
**2 - data prep
rename observation date datestring
gen dateday=date(datestring, "YMD")
gen date=mofd(dateday)
format date %tm
tsset date
generate month=month(dateday)
rename flbppriv fl bp
rename fllfn fl lf
rename flnan fl_nonfarm
rename lnu02300000 20200110 us epr
gen lnflnonfarm=ln( fl nonfarm)
gen lnfllf=ln( fl lf)
gen lnusepr = ln(us epr)
gen lnflbp=ln( fl bp)
estimates clear
**3 - Static Model
**3b
reg lnflnonfarm lnfllf lnusepr lnflbp
eststo model3b
**3c
reg lnflnonfarm lnfllf lnusepr lnflbp i.month date
eststo model3c
esttab model3* using models3.rtf , se r2 onecell compress replace
**4 Distributed Lag Model
**4a
reg lnflnonfarm 1(0/12).lnfllf 1(0/12).lnusepr 1(0/12).lnflbp
eststo model4a
**4b
reg lnflnonfarm 1(0/12).lnfllf 1(0/12).lnusepr 1(0/12).lnflbp i.month date
eststo model4b
reg lnflnonfarm 1(0,1).lnfllf 1(0,1).lnusepr 1(0,1).lnflbp i.month date
eststo model4e1
reg lnflnonfarm 1(0,1,12).lnfllf 1(0,1,12).lnusepr 1(0,1,12).lnflbp i.month date
```

eststo model4e2
esttab model4* using models4.rtf , se r2 onecell compress replace
clear
log close

Appendix B: Log File

```
log: C:\Users\jdewey\Documents\A S20 Time Series\Problem Sets\Problem Set 2 Work.smcl
 log type: smcl
opened on: 3 Feb 2020, 17:19:56
. import delimited using "us and florida economic time series.txt"
(5 vars, 972 obs)
. **2 - data prep
. rename observation date datestring
. gen dateday=date(datestring,"YMD")
. gen date=mofd(dateday)
. format date %tm
. tsset date
        time variable: date, 1939m1 to 2019m12
              delta: 1 month
. generate month=month(dateday)
. rename flbppriv fl bp
. rename fllfn fl lf
. rename flnan fl nonfarm
. rename lnu02300000 20200110 us epr
. gen lnflnonfarm=ln( fl nonfarm)
. gen lnfllf=ln( fl lf)
(444 missing values generated)
. gen lnusepr = ln(us epr)
(108 missing values generated)
. gen lnflbp=ln( fl bp)
(588 missing values generated)
. estimates clear
. **3 - Static Model
. **3b
. reg lnflnonfarm lnfllf lnusepr lnflbp
```

Source	SS	df	MS	Number of o	bs =	384
+				F(3, 380)	=	5989.79
Model	10.0439101	3	3.34797004	Prob > F	=	0.0000
Residual	.212399492	380	.000558946	R-squared	=	0.9793

	10.2563096	383	.026778876	Adj R- Root M	squared = SE =	0.9791
lnflnonfarm	Coef.	Std. Err.	t E	?> t	[95% Conf.	Interval]
lnfllf lnusepr lnflbp _cons	1.116328 .7841477 .0441864 -12.56463	.0092075 .058693 .0031657 .3275278	13.36 (13.96 (0.000 0.000 0.000 0.000	1.098223 .6687439 .0379619 -13.20863	1.134432 .8995515 .0504109 -11.92064

. eststo model3b

. **3c

. reg lnflnonfarm lnfllf lnusepr lnflbp i.month date

Source	SS	df	MS	_	ber of obs = 5, 368) =	
Model	10.1992366	15	.67994910	•	b > F =	
Residual	.057073047	368	.0001550		quared = R-squared =	
Total	10.2563096	383	.02677887		t MSE =	
lnflnonfarm	Coef.	Std. Err.	 t	P> t	[95% Conf.	Interval]
 lnfllf	.9212237	.0352984	26.10	0.000	.8518118	.9906356
lnusepr	1.229715	.0476496	25.81	0.000	1.136015	1.323415
lnflbp	.0351044	.0019115	18.36	0.000	.0313455	.0388633
_						
month						
2	.0031354	.0031186	1.01	0.315	0029971	.0092678
3	0032363	.0031202	-1.04	0.300	0093719	.0028993
4	0093573	.0031364	-2.98	0.003	0155247	0031898
5	0212137	.0031465	-6.74	0.000	0274011	0150264
6	0435719	.0031755	-13.72	0.000	0498163	0373275
7	0610547	.0032086	-19.03	0.000	0673642	0547452
8	0442749	.0031661	-13.98	0.000	0505008	0380491
9	0314627	.0031552	-9.97	0.000	0376673	0252582
10	0277233	.0031775	-8.72	0.000	0339716	0214751
11	008915	.0032122	-2.78	0.006	0152316	0025984
12	.0001403	.0031694	0.04	0.965	0060921	.0063727
l date	.0003493	.000055	6.35	0.000	.0002411	.0004574
_cons	-11.37522	.4325196	-26.30	0.000	-12.22574	-10.5247

. eststo model3c

. esttab model3* using models3.rtf , se r2 onecell compress replace (output written to models3.rtf) $\,$

. **4 Distributed Lag Model

. **4a

. reg lnflnonfarm 1(0/12).lnfllf 1(0/12).lnusepr 1(0/12).lnflbp

Source	SS	df	MS		er of obs , 332)	= 372 = 1833.96
Model	9.0020926	39	.230822887		> F	
Residual		332	.00012586		uared	
+				- Adj	R-squared	= 0.9948
Total	9.04387821	371	.02437703	Root	MSE	= .01122
lnflnonfarm	Coef.	Std. Err.	t	P> t	[95% Conf	f. Interval]
	.2484859	.256641	0.97	0.334	2563617	.7533334
L1.		.339549	0.03	0.974	6570145	.6788629
L2.		.3395465	1.16	0.249	275509	1.060359
L3.		.3417729	1.96	0.051	0039039	1.340723
L4.		.3430333	-0.78	0.437	9414675	.408118
L5.		.3421766	-1.54	0.124	-1.200919	
L6.		.342526	-0.27	0.784	7679421	.5796479
L7.		.3446162	0.59	0.558	4760475	.8797658
L8.		.3468577	-0.33	0.742	7968033	.5678284
L9.	.3824765	.3448778	1.11	0.268	2959448	1.060898
L10.	0174709	.3416669	-0.05	0.959	6895758	.654634
L11.	0135512	.3411563	-0.04	0.968	6846517	.6575492
L12.	.2758329	.2587045	1.07	0.287	2330738	.7847396
_ !						
lnusepr						
		.2811081	2.73	0.007	.2135064	1.319461
L1.		.394163	-1.02	0.307	-1.178345	.3723989
L2.		.3895914	-0.87	0.383	-1.106644	.4261135
L3.		.3879255	-1.17	0.244	-1.215724	.3104796
L4.		.3985003	0.66	0.511	5216672	1.04614
L5.		.4002439	2.61	0.010	.2567681	1.831436
L6. L7.		.3976835 .3977182	2.16 -0.51	0.032 0.611	.075108 9848981	1.639702 .5798328
L8.		.3992073	1.17	0.244	3193145	1.251275
L9.		.3930261	-0.47	0.638	 9583082	.5879628
L10.		.3882628	-0.73	0.468	-1.046076	.4814548
L11.		.3869829	0.28	0.777	6515899	.8709053
L12.	600008	.2687647	-2.23	0.026	-1.128704	0713115
	• 000000	•======================================	2,20	0.020	1,120,01	• 0 , 10110
lnflbp						
	.0202182	.0046996	4.30	0.000	.0109734	.029463
L1.	.0093884	.0050239	1.87	0.063	0004943	.0192712
L2.	.0117593	.0051824	2.27	0.024	.0015649	.0219537
L3.	.0026682	.0053362	0.50	0.617	0078287	.0131652
L4.	.0012799	.0053486	0.24	0.811	0092415	.0118014
L5.	.0064967	.0054228	1.20	0.232	0041707	.017164
L6.	.0069897	.0054356	1.29	0.199	0037029	.0176823
L7.	.0022828	.0054189	0.42	0.674	0083769	.0129424
L8.	0008686	.0054353	-0.16	0.873	0115607	.0098234
L9.	.0015926	.0054429	0.29	0.770	0091144	.0122995
L10.	0065654	.0052727	-1.25	0.214	0169374	.0038067
L11.	003495	.0052083	-0.67	0.503	0137405	.0067505
L12.	0058967	.0049827	-1.18	0.237	0156983	.0039049
cons	-14.10318	.2086937	-67.58	0.000	-14.51371	-13.69265

[.] eststo model4a

. **4b

. reg lnflnonfarm 1(0/12).lnfllf 1(0/12).lnusepr 1(0/12).lnflbp i.month date

Source	SS	df	MS		er of obs = , 320) =	= 372 = 1851.87
Model Residual	9.01333924	51 320	.17673214	2 Prob 4 R-sq	> F =	0.0000 0.9966
Total	9.04387821	371	.0243770	_	-	
lnflnonfarm	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
lnfllf	 					
	.4022129	.2732552	1.47	0.142	1353907	.9398166
L1.	.0215758	.3606161	0.06	0.952	6879021	.7310536
L2.	0948631	.3652309	-0.26	0.795	8134202	.623694
L3.	.1723664	.3690394	0.47	0.641	5536835	.8984163
L4.	0253954	.3736455	-0.07	0.946	7605074	.7097167
L5.	.032669	.3722284	0.09	0.930	699655	.764993
L6. L7.		.370946 .3720899	0.23 0.49	0.814 0.622	6426879 5484476	.8169143 .9156554
L8.	•	.3721137	0.49	0.822	643089	.8211076
L9.	.197165	.3753167	0.53	0.600	541235	.9355651
L10.	.0444438	.3776373	0.12	0.906	6985216	.7874093
L11.	2746825	.3805238	-0.72	0.471	-1.023327	.473962
L12.	.0831178	.2875688	0.29	0.773	4826465	.6488822
lnusepr	 					
	.4356027	.3503781	1.24	0.215	2537329	1.124938
L1.	.1191917	.4636369	0.26	0.797	7929698	1.031353
L2.	•	.4690234	0.15	0.879	8513858	.9941321
L3.		.4702414	0.17	0.867	8460526	1.004258
L4.	.210954	.4747179	0.44	0.657	7230083	1.144916
L5.	1047653	.4756131	-0.22	0.826	-1.040489	.8309584
L6. L7.	.4023734	.4737444	0.85 0.07	0.396 0.948	5296736 9027628	1.33442
L8.	1029041	.474868	-0.22	0.940	-1.037162	.8313536
L9.		.4765677	-0.24	0.812	-1.051336	.8238676
L10.		.477637	0.24	0.811	8255429	1.053868
L11.	.497261	.4765765	1.04	0.298	4403581	1.43488
L12.	4053088	.3511232	-1.15	0.249	-1.09611	.2854927
lnflbp						
	.0181623	.0043772	4.15	0.000	.0095506	.0267739
L1.		.0047446	1.95	0.052	0000982	.0185707
L2.		.0048536	1.13	0.260	0040741	.0150237
L3.		.0049693	1.23	0.221	0036764	.0158768
L4. L5.	.0034054	.0049669	0.69 0.81	0.493 0.420	0063666 0057635	.0131774
L6.	.0040143	.00497	1.32	0.420	0037633	.0163695
L7.	.0048746	.0049436	0.99	0.325	0048515	.0146007
L8.	0053079	.0049686	-1.07	0.286	0150833	.0044674
L9.	0008209	.0049335	-0.17	0.868	0105271	.0088854
L10.	0004853	.0048019	-0.10	0.920	0099325	.008962
L11.	005678	.0047093	-1.21	0.229	014943	.003587
L12.	0033832	.0044686	-0.76	0.450	0121747	.0054083
month						
2	.0092051	.0070556	1.30	0.193	0046761	.0230863
3	.0128215	.0076985	1.67	0.097	0023246	.0279675
4	.0098972	.0085302	1.16	0.247	0068851	.0266795
5	.0052627	.0061186	0.86	0.390	006775	.0173004

6		0085299	.0074359	-1.15	0.252	0231594	.0060996
7		0163274	.0072572	-2.25	0.025	0306052	0020496
8		0079749	.0077393	-1.03	0.304	0232012	.0072514
9		008067	.0061448	-1.31	0.190	0201563	.0040224
10		0065847	.0083379	-0.79	0.430	0229888	.0098194
11		.0093559	.0076758	1.22	0.224	0057455	.0244573
12	 	.0184165	.0072988	2.52	0.012	.0040569	.0327761
date _cons		.000358 -11.43514	.0000504 .4276261	7.10 -26.74	0.000	.0002588 -12.27645	.0004573 -10.59382

. eststo model4b

. **4d

. reg lnflnonfarm l(0,1).lnfllf l(0,1).lnusepr l(0,1).lnflbp i.month date

Source	SS	df	MS			= 383 = 4091.26
Model	10.0933617	18	.56074231			= 0.0000
Residual	•	364	.00013705			= 0.9951
	+				-	= 0.9948
Total	10.1432511	382	.02655301	L3 Root	MSE	= .01171
lnflnonfarm	Coef.	Std. Err.	t	P> t	[95% Conf	. Interval]
lnfllf	 					
	1.005734	.2960054	3.40	0.001	.4236382	1.587829
L1.	0917364	.2997884	-0.31	0.760	6812711	.4977982
lnusepr						
	1481019		-0.40	0.689	8763421	
L1.	1.351803	.3683321	3.67	0.000	.6274767	2.076129
lnflbp	 					
	.0254374	.0041611	6.11	0.000	.0172545	.0336203
L1.	.0125023	.0042286	2.96	0.003	.0041867	.0208179
-						
month						
2	.0229252	.0051295	4.47	0.000	.0128379	.0330124
3	.0193888	.0051092	3.79	0.000	.0093415	.029436
4	.0118636	.005949	1.99	0.047	.0001649	.0235623
5	0010886	.0044823	-0.24	0.808	009903	.0077258
6	0186915	.0057707	-3.24	0.001	0300395	0073434
7	0422895	.0047089	-8.98	0.000	0515495	0330296
8	0343521	.0040015	-8.58	0.000	042221	0264832
9	0212841	.0037678	-5.65	0.000	0286936	0138747
10	0072332	.0060024	-1.21	0.229	0190369	.0045706
11	.0045345	.0049203	0.92	0.357	0051414	.0142103
12	.0135397	.0042449	3.19	0.002	.0051922	.0218872
date	.0003593	.0000526	6.83	0.000	.0002558	.0004628
cons	-11.20074	.4162832	-26.91	0.000	-12.01936	

. eststo model4d1

. reg lnflnonfarm 1(0,1,12).lnfllf 1(0,1,12).lnusepr 1(0,1,12).lnflbp i.month date

Model Residual	+	21 350	.42855408	39 Prob 37 R-sc Adj	y > F quared R-squared	= 3390.28 = 0.0000 = 0.9951 = 0.9948
Total	9.04387821	371	.0243770)3 Root 	MSE	= .01124
lnflnonfarm	Coef.	Std. Err.	t 	P> t	[95% Conf	. Interval]
lnfllf						
		.2943467	2.48	0.014	.1503094	1.308131
L1.		.311443	-0.10	0.917	6452097	.5798605
L12.	.1809366	.0934679	1.94	0.054	0028928	.3647661
lnusepr						
	.0468984	.3719194	0.13	0.900	6845797	.7783765
L1.	.9767191	.3942439	2.48	0.014	.2013341	1.752104
L12.	.1954712	.0855985	2.28	0.023	.027119	.3638234
lnflbp	 					
	.0247686	.0041362	5.99	0.000	.0166337	.0329034
L1.	.0140107	.0042693	3.28	0.001	.005614	.0224074
L12.	.0038842	.0028946	1.34	0.181	0018088	.0095771
month	 					
2	.0171205	.0053484	3.20	0.001	.0066015	.0276394
3	.0129469	.0053059	2.44	0.015	.0025114	.0233824
4	.0050828	.0062317	0.82	0.415	0071735	.017339
5	0068836	.0045836	-1.50	0.134	0158986	.0021313
6	0258619	.0059779	-4.33	0.000	0376191	0141047
7	0474425	.0048209	-9.84	0.000	056924	0379609
8	0367457	.0040455	-9.08	0.000	0447023	028789
9	0241094	.003824	-6.30	0.000	0316304	0165884
10	0129705	.0062624	-2.07	0.039	0252873	0006538
11	.0005892	.0051016	0.12	0.908	0094444	.0106228
12	.0100853	.0043352	2.33	0.021	.0015591	.0186115
date	.0004157	.0000571	7.28	0.000	.0003034	.000528
_cons	•	.4799099	-22.40	0.000	-11.69219	-9.804451

[.] eststo model4d2

. esttab model4* using models4.rtf , se r2 onecell compress replace (output written to models4.rtf)

. clear

. log close

name: <unnamed>

log: C:\Users\jdewey\Documents\A S20 Time Series\Problem Sets\Problem Set 2

Work.smcl

log type: smcl

closed on: 3 Feb 2020, 17:19:56
