

Appendix H. Long-term trends in C¹⁴ productivity at all stations and for all seasons, for the period of 1985 through 2007. See the method section of the report for definitions of Seasons.

Station	Season	P value	Slope	Score	% Change	Homogeneity	
						Test P value	Direction
TF5.5	Annual	0.0004	2.80	32.33	164.78	0.7501	Degrading
RET5.2	Annual	0.0117	-1.64	125.14	-24.96	0.0845	Improving
LE5.5	Annual	0.0811	1.00	62.05	30.50	0.5248	No Trend
SBE5	Annual	0.8923	0.10	57.37	2.86	0.9115	No Trend
TF4.2	Annual	0.0507	0.25	10.29	46.51	0.2484	No Trend
RET4.3	Annual	0.0072	1.31	34.81	71.58	0.8006	Degrading
WE4.2	Annual	0.0060	1.38	50.54	51.93	0.3782	Degrading
TF3.3	Annual	0.0000	3.47	51.88	127.05	0.7633	Degrading
RET3.1	Annual	0.0000	3.62	65.84	104.55	0.4852	Degrading
LE3.6	Annual	0.0160	0.88	34.88	47.85	0.7122	Degrading
CB6.1	Annual	0.1845	0.42	23.89	33.05	0.9956	No Trend
CB6.4	Annual	0.0088	0.94	30.47	58.39	0.6878	Degrading
CB7.3E	Annual	0.1069	0.41	20.48	38.13	0.9747	No Trend
CB7.4	Annual	0.0043	0.56	15.95	67.02	0.8922	Degrading
TF5.5	SAV1	0.0121	5.62	186.78	57.18	0.8105	Degrading
RET5.2	SAV1	0.0098	-2.51	156.71	-30.38	0.2326	Improving
LE5.5	SAV1	0.0540	1.45	71.80	38.35	0.9656	No Trend
SBE5	SAV1	0.3416	-0.70	74.16	-16.06	0.9814	No Trend
TF4.2	SAV1	0.1259	0.41	27.86	27.69	0.1694	No Trend
RET4.3	SAV1	0.0219	1.58	66.03	45.39	0.3739	Degrading
WE4.2	SAV1	0.0303	1.36	52.94	48.95	0.2308	Degrading
TF3.3	SAV1	0.0001	6.76	94.74	135.52	0.7998	Degrading
RET3.1	SAV1	0.0000	5.69	80.30	134.52	0.7917	Degrading
LE3.6	SAV1	0.0258	1.20	33.63	68.02	0.5301	Degrading
CB6.1	SAV1	0.3085	0.37	14.36	48.68	0.9628	No Trend
CB6.4	SAV1	0.0225	1.01	24.89	77.27	0.6050	Degrading
CB7.3E	SAV1	0.2542	0.36	16.97	40.76	0.7277	No Trend
CB7.4	SAV1	0.1471	0.38	16.06	45.45	0.8612	No Trend
TF5.5	SAV2	0.0013	1.52	33.23	86.92	0.7500	Degrading
RET5.2	SAV2	0.0543	0.88	45.59	36.49	0.3054	No Trend
LE5.5	SAV2	0.0342	1.05	37.16	53.77	0.8713	Degrading
SBE5	SAV2	0.1477	0.66	35.95	34.73	0.6714	No Trend
TF4.2	SAV2	0.0001	0.91	27.70	62.44	0.8910	Degrading
RET4.3	SAV2	0.0011	1.53	35.95	81.03	0.7872	Degrading
WE4.2	SAV2	0.0886	0.75	37.87	37.54	0.7717	No Trend
TF3.3	SAV2	0.0017	1.51	37.90	75.59	0.8903	Degrading
RET3.1	SAV2	0.0042	1.38	37.90	69.02	0.9284	Degrading
LE3.6	SAV2	0.0607	0.77	34.01	43.10	0.6276	No Trend
CB6.1	SAV2	0.0745	0.68	30.24	43.01	0.8345	No Trend
CB6.4	SAV2	0.0035	1.34	24.44	104.21	0.9684	Degrading
CB7.3E	SAV2	0.0179	0.83	23.15	68.17	0.8580	Degrading
CB7.4	SAV2	0.0394	0.65	24.44	50.54	0.8782	Degrading

Appendix H. Continued.

Station	Season	P value	Slope	Score	% Change	Homogeneity	
						Test P value	Direction
TF5.5	Spring1	0.0091	3.19	96.93	59.15	0.3505	Degrading
RET5.2	Spring1	0.5363	1.60	155.08	18.55	0.0986	No Trend
LE5.5	Spring1	0.3456	1.88	49.43	68.48	0.6391	No Trend
SBE5	Spring1	0.8605	-0.27	83.55	-5.45	0.8504	No Trend
TF4.2	Spring1	0.0004	0.93	6.81	245.86	0.9665	Degrading
RET4.3	Spring1	0.0079	4.20	89.93	84.12	0.4158	Degrading
WE4.2	Spring1	0.7640	0.52	47.37	19.74	0.7169	No Trend
TF3.3	Spring1	0.0121	3.36	54.35	111.33	0.5571	Degrading
RET3.1	Spring1	0.0383	3.48	80.30	77.98	0.6254	Degrading
LE3.6	Spring1	0.5856	0.47	40.46	21.07	0.3833	No Trend
CB6.1	Spring1	0.6870	0.35	23.35	27.30	0.8183	No Trend
CB6.4	Spring1	0.0318	1.95	24.23	145.13	0.7810	Degrading
CB7.3E	Spring1	0.1923	0.81	16.87	86.76	0.5370	No Trend
CB7.4	Spring1	0.4067	0.38	13.53	51.11	0.7341	No Trend
TF5.5	Spring2	0.3929	2.46	304.78	14.54	0.4683	No Trend
RET5.2	Spring2	0.7753	-0.61	161.52	-6.83	0.1724	No Trend
LE5.5	Spring2	0.1507	2.46	49.43	89.53	0.7871	No Trend
SBE5	Spring2	0.5981	-0.75	83.55	-15.27	0.9870	No Trend
TF4.2	Spring2	0.0636	0.78	61.91	22.80	0.0318	No Trend
RET4.3	Spring2	0.0457	2.25	94.59	42.89	0.0667	Degrading
WE4.2	Spring2	0.2954	0.99	46.64	38.04	0.4018	No Trend
TF3.3	Spring2	0.0867	4.67	117.01	71.79	0.8439	No Trend
RET3.1	Spring2	0.0205	5.05	81.65	111.28	0.5611	Degrading
LE3.6	Spring2	0.2404	1.34	33.60	72.00	0.2486	No Trend
CB6.1	Spring2	0.2605	0.86	12.21	126.60	0.6379	No Trend
CB6.4	Spring2	0.1334	1.49	23.34	115.08	0.7548	No Trend
CB7.3E	Spring2	0.3081	0.81	16.87	86.40	0.5165	No Trend
CB7.4	Spring2	0.7943	0.12	20.46	10.25	0.8173	No Trend
TF5.5	Summer1	0.0853	6.06	376.57	30.57	0.4871	No Trend
RET5.2	Summer1	0.0261	-2.78	168.76	-31.29	0.5797	Improving
LE5.5	Summer1	0.0747	1.63	83.03	37.38	0.9928	No Trend
SBE5	Summer1	0.4003	-1.21	126.56	-16.20	0.7923	No Trend
TF4.2	Summer1	0.6366	-0.15	35.38	-8.17	0.7562	No Trend
RET4.3	Summer1	0.5632	0.68	102.29	12.60	0.6040	No Trend
WE4.2	Summer1	0.0026	2.23	78.75	53.80	0.5736	Degrading
TF3.3	Summer1	0.0030	7.37	91.25	153.41	0.6080	Degrading
RET3.1	Summer1	0.0001	5.26	79.71	125.40	0.7513	Degrading
LE3.6	Summer1	0.0142	1.50	34.56	82.55	0.6661	Degrading
CB6.1	Summer1	0.3653	0.47	12.34	73.12	0.7946	No Trend
CB6.4	Summer1	0.0387	1.23	30.84	75.77	0.4604	Degrading
CB7.3E	Summer1	0.4123	0.36	16.66	41.08	0.5549	No Trend
CB7.4	Summer1	0.2691	0.43	13.97	57.88	0.6130	No Trend

Appendix H. Continued.

Station	Season	P value	Slope	Score	% Change	Homogeneity	
						Test P value	Direction
TF5.5	Summer2	0.0305	8.20	228.22	68.25	0.7931	Degrading
RET5.2	Summer2	0.0197	-3.35	175.35	-36.30	0.5343	Improving
LE5.5	Summer2	0.1199	1.54	93.98	31.18	0.9553	No Trend
SBE5	Summer2	0.4057	-1.18	126.56	-15.86	0.6053	No Trend
TF4.2	Summer2	0.9830	0.02	17.39	1.95	0.8508	No Trend
RET4.3	Summer2	0.2953	1.11	72.71	28.97	0.7616	No Trend
WE4.2	Summer2	0.0085	2.17	64.61	63.84	0.3693	Degrading
TF3.3	Summer2	0.0040	7.59	85.46	168.81	0.4847	Degrading
RET3.1	Summer2	0.0004	5.12	71.81	135.54	0.5668	Degrading
LE3.6	Summer2	0.0417	1.48	34.88	80.42	0.4646	Degrading
CB6.1	Summer2	0.7027	0.19	18.63	19.83	0.8829	No Trend
CB6.4	Summer2	0.0375	1.22	30.84	75.15	0.3318	Degrading
CB7.3E	Summer2	0.4548	0.35	16.66	40.04	0.3536	No Trend
CB7.4	Summer2	0.2032	0.48	13.97	65.56	0.5063	No Trend
TF5.5	Fall	0.0364	4.28	30.81	263.77	0.9834	Degrading
RET5.2	Fall	0.0061	-3.11	95.99	-61.48	0.1432	Improving
LE5.5	Fall	0.1015	1.31	43.17	57.67	0.4140	No Trend
SBE5	Fall	0.2740	0.33	14.56	38.54	0.6204	No Trend
TF4.2	Fall	0.2426	0.30	9.94	57.07	0.6430	No Trend
RET4.3	Fall	0.2893	0.56	17.10	62.07	0.9319	No Trend
WE4.2	Fall	0.1501	1.28	41.40	58.86	0.1312	No Trend
TF3.3	Fall	0.0071	3.47	18.56	354.81	0.6267	Degrading
RET3.1	Fall	0.0974	2.46	30.03	155.40	0.3063	No Trend
LE3.6	Fall	0.1407	0.91	26.71	64.64	0.7101	No Trend
CB6.1	Fall	0.2447	0.70	21.30	62.02	0.8154	No Trend
CB6.4	Fall	0.3017	0.61	37.23	30.91	0.5255	No Trend
CB7.3E	Fall	0.5730	0.29	34.59	15.91	0.9039	No Trend
CB7.4	Fall	0.0074	0.96	16.45	110.77	0.7285	Degrading
TF5.5	Winter	0.8462	0.05	7.58	7.32	0.4379	No Trend
RET5.2	Winter	0.6981	-0.17	14.78	-13.88	0.3322	No Trend
LE5.5	Winter	0.0911	-2.00	77.78	-46.29	0.5216	No Trend
SBE5	Winter	0.7024	0.66	59.96	17.59	0.3083	No Trend
TF4.2	Winter	0.4972	-0.08	8.83	-10.74	0.7711	No Trend
RET4.3	Winter	0.1458	1.10	16.57	79.99	0.9227	No Trend
WE4.2	Winter	0.9492	0.02	83.31	0.44	0.4078	No Trend
TF3.3	Winter	0.9590	0.05	14.40	4.12	0.7195	No Trend
RET3.1	Winter	0.7187	0.28	29.03	11.47	0.2249	No Trend
LE3.6	Winter	0.7757	-0.18	50.25	-6.37	0.4013	No Trend
CB6.1	Winter	0.9747	0.00	42.48	-0.14	0.9721	No Trend
CB6.4	Winter	0.5433	-0.97	47.46	-36.70	0.7348	No Trend
CB7.3E	Winter	0.5843	0.35	33.88	18.37	0.9708	No Trend
CB7.4	Winter	0.2440	0.69	16.34	76.27	0.9072	No Trend