

Table A.7 Comparing characteristics and properties of Mark Fisher's pivot and the w-pivot

Security	Number of days in pivot	Total days *	Average pivot range, ticks		Number of days when opening is outside pivot range to total days, %		Number of plus and minus days to total days, %		Number of days when market breaks through pivot compared to mirror pivot, **	
			pivot	w-pivot	pivot	w-pivot	pivot	w-pivot	pivot	w-pivot
RI	1	2423	67	69	95.5	75.6	30.4	21.5	49.9	50.2
	2	2422	95	101	96.7	75.2	26.1	16.2	49.9	49
	3	2421	117	127	97.1	75.5	23.1	12.7	48.4	47.3
	4	2420	135	149	97.4	75.7	20.3	10.4	48.3	46.7
	5	2419	151	168	98.2	76.1	18.7	9.1	48.2	46.7
	6	2418	165	185	98.3	76.2	17.3	7.7	48.5	47.7
	7	2417	178	201	98.4	75.3	16.1	6.3	48.3	47.5
	8	2416	190	215	98.3	75.5	15	5.4	47.9	45.9
	9	2415	201	229	98.8	74.6	14.4	4.5	47.5	45.8
	10	2414	211	242	98.6	74.7	14.3	4.2	49.4	45.5
Si	1	2418	121	123	93.7	79.2	26.1	20.2	42.6	44.1
	2	2417	176	185	95.2	76	23	13.9	46	43.2
	3	2416	220	236	96.7	74.3	20.4	10.6	46.3	41.2
	4	2415	257	279	97	74.6	17.3	8.2	44.4	40.4
	5	2414	291	317	97.4	75	16.1	7	45.5	40.9
	6	2413	319	351	97.6	76	14.6	6.2	44.4	42.8
	7	2412	344	381	97.9	75.3	13.8	4.8	45.4	38.9
	8	2411	369	410	98	75	13.8	4.1	48	38
	9	2410	392	437	97.7	75.1	13.3	3.9	49.4	39.6
	10	2409	413	462	98	74.5	13.1	3.4	50.6	40.4
BR	1	2282	36	41	88.8	76.3	26.6	19.1	48	45.9
	2	2281	52	58	91.6	76.1	23	14.9	49	47.3
	3	2280	64	71	92.4	74.8	21.2	12.5	50.7	49.2
	4	2279	74	83	93.8	73.9	20	10.7	51.2	50.7
	5	2278	82	93	95.2	72.9	17.9	9.2	49	53.4
	6	2277	90	102	95.3	72.5	16.3	7.7	47.9	51.3
	7	2276	98	110	95.7	72.8	14.9	7.1	48.7	52.9
	8	2275	105	118	95.3	73.1	14.2	6.1	49.1	52.2
	9	2274	112	125	96	74.3	13.2	5.1	49.1	48.7
	10	2273	118	132	96	75	12.6	4.9	49.7	50
ED	1	2315	19	21	86.6	71.7	25.2	18	46.6	45
	2	2314	28	32	90.7	73.2	21.9	14.2	47	46.6
	3	2313	36	40	92.4	74.4	19.1	11.6	46.4	46.6
	4	2312	42	47	94	74.1	17	9.2	47.1	46.8
	5	2311	47	52	94.5	75.2	15.4	8	47.5	47.8
	6	2310	52	58	95.3	75.1	14.9	7.1	48.8	48.2
	7	2309	56	62	95.1	75.5	13.6	6.3	49.5	48.6
	8	2308	61	67	95.7	75.9	12.9	5.6	49.5	48.5
	9	2307	65	71	95.9	75.6	11.7	5	47.7	48.5
	10	2306	69	75	96.2	75.4	11.2	4.7	48.6	49.5

Continued

Table A.7 Comparing characteristics and properties of Mark Fisher's pivot and the w-pivot (*Continued*)

Security	Number of days in pivot	Total days *	Average pivot range, ticks		Number of days when opening is outside pivot range to total days, %		Number of plus and minus days to total days, %		Number of days when market breaks through pivot compared to mirror pivot, **	
			pivot	w-pivot	pivot	w-pivot	pivot	w-pivot	pivot	w-pivot
SR	1	2421	59	62	95	76.1	30.3	22	48.5	50.6
	2	2420	83	91	95.1	74.4	24.5	15.4	47.9	47.4
	3	2419	101	114	96.2	72	22.5	11.3	48.3	46.5
	4	2418	117	134	96.7	71.3	20.6	8.8	48	42.8
	5	2417	131	151	97.5	72.4	19.1	7.5	47.6	40.8
	6	2416	143	167	97.6	73.3	17.9	6.3	48.2	39.3
	7	2415	156	181	97.7	73	16.5	5.5	47.6	40
	8	2414	169	195	97.8	73.7	15.4	5.1	47.9	40.5
	9	2413	180	208	98.1	73.1	14.4	4.1	47.8	38.1
	10	2412	190	220	98.1	73.4	13.3	3.9	46.6	39.1
GD	1	2423	33	39	85.9	71.4	23.8	15.9	45	42.5
	2	2422	49	58	89.7	70.8	19.7	12.3	43.1	42.9
	3	2421	63	73	91.6	71.9	17.4	9.9	44	42.5
	4	2420	74	85	92.2	71.3	15.3	7.9	43.3	41.4
	5	2419	83	96	94.1	71.9	14.8	6.7	44.1	41.3
	6	2418	92	105	94.6	72.9	13.7	6.2	44.5	42.8
	7	2417	101	114	94.8	73.3	12	5.4	43.5	41.9
	8	2416	108	122	95.5	73	11.4	4.5	43.7	40.5
	9	2415	116	130	95.6	73.1	11.1	3.8	44.6	38.4
	10	2414	122	137	96.1	73.6	10.3	3.4	43.6	37.5
SBER	1	2421	57	56	84.3	80.2	20.4	18.7	46.3	45.9
	2	2420	83	91	83.7	77.7	16.8	13	46.5	43.4
	3	2419	102	116	84.4	75.4	15.1	9.7	46.3	42.4
	4	2418	118	136	85.9	74.5	14.6	7.5	47.2	40.8
	5	2417	132	154	86.7	73.2	13.2	5.9	46.6	38.5
	6	2416	144	170	87.8	73.1	13	4.7	49.1	35.6
	7	2415	157	185	88.2	72.6	11.8	3.8	49.1	35
	8	2414	169	198	88.4	73.1	10.6	3.7	48.1	37
	9	2413	180	211	88.9	72.4	9.4	3.1	46.1	37.8
	10	2412	191	223	88.8	72.3	8.7	2.8	45	38.8
GAZP	1	2421	71	74	83.2	78.5	22.4	20.6	49.8	50.5
	2	2420	105	118	83.1	74.3	17.6	14	46.4	48.1
	3	2419	132	149	84.6	73.2	15.9	10.4	47.8	45
	4	2418	153	174	85.6	73.5	14.1	8.4	46.5	44.6
	5	2417	172	196	86.6	73.2	12.7	7.1	46.1	46.3
	6	2416	189	216	87.9	73	11.8	6	46.8	45.3
	7	2415	205	235	88.4	73	11.5	5.5	48.2	47.8
	8	2414	219	252	89.5	72.8	10.7	4.3	47.8	43.3
	9	2413	232	267	90.3	73.6	10.3	3.9	48.3	42.4
	10	2412	245	282	91.2	73.3	9.5	3.4	47.4	41.1

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Table A.7 Comparing characteristics and properties of Mark Fisher's pivot and the w-pivot (*Continued*)

Security	Number of days in pivot	Total days *	Average pivot range, ticks		Number of days when opening is outside pivot range to total days, %		Number of plus and minus days to total days, %		Number of days when market breaks through pivot compared to mirror pivot, **	
			pivot	w-pivot	pivot	w-pivot	pivot	w-pivot	pivot	w-pivot
LKOH	1	2421	20	20	81.4	75.9	23.7	20.9	51.8	51.9
	2	2420	29	32	83.1	72.6	19.5	14.7	50.3	49.7
	3	2419	36	40	83.8	73.1	18	11.4	51.8	49.4
	4	2418	41	46	84.6	73.2	15.8	9.9	50.9	50.5
	5	2417	46	52	85.3	73.1	13.9	8.2	49.6	50.1
	6	2416	50	57	86.5	72.8	12.9	7	48.7	49.1
	7	2415	54	62	86.9	73	12	5.7	50	45.7
	8	2414	57	66	86.9	72.5	11.6	5.2	51.2	46.6
	9	2413	60	70	87.5	73.1	11.4	4.9	52.5	50.2
	10	2412	63	74	88.2	72.8	11.5	4	52.9	46.8
GMKN	1	2421	35	36	82.9	76.9	22.6	20.9	48.8	49.8
	2	2420	52	57	84.1	74.3	17.8	14.2	47.2	47
	3	2419	65	72	85.7	73.8	16.5	10.9	48	46.5
	4	2418	76	85	86.3	72.7	14.4	8.8	47.5	48
	5	2417	85	96	87.3	72.9	13.3	7.5	46.7	45.8
	6	2416	93	106	87.9	72.5	12.1	6	45.6	45.5
	7	2415	100	115	88.6	72.3	11.1	5	44.6	43.8
	8	2414	107	124	89.2	72.7	10.3	4.3	44.8	42.6
	9	2413	113	131	89.7	72.3	10.4	3.9	46.2	42.2
	10	2412	118	139	89.8	72	9.8	3.2	45.6	39.3
ROSN	1	2421	25	25	83.4	78	21.6	18.2	47.7	44.5
	2	2420	37	40	82.8	73.6	18.5	11.3	48.1	41.5
	3	2419	45	51	84.7	71.2	16.4	9.5	48.2	43.6
	4	2418	52	60	85.2	70.6	14.6	8.1	48	44.1
	5	2417	59	67	87.3	70.3	14.1	6.2	49.1	41.7
	6	2416	64	74	88	71.3	13.4	5.5	49	42.9
	7	2415	69	80	88.8	71.8	12.4	4.8	47.8	43.2
	8	2414	74	86	88.6	71.5	11.3	4.2	48.2	42.1
	9	2413	78	91	89.6	71.3	11	3.7	48.8	41.6
	10	2412	82	96	90	71.7	10.5	3.1	48.7	41.1
VTBR	1	2421	67	34	82.5	76.8	23.6	19.7	51.9	49.7
	2	2420	95	54	82.9	72.5	18.8	13.3	49.2	47.2
	3	2419	116	68	83.8	71	16.7	10.7	49.3	46.6
	4	2418	134	79	85.4	72	15	8.9	48	45.8
	5	2417	151	89	85.9	71.7	13.7	7.5	48.7	46.7
	6	2416	165	99	87	71.4	12.7	6.4	49.2	46.4
	7	2415	179	107	88.2	71.7	12	5.3	47.5	45.4
	8	2414	192	115	88.7	71.3	11.9	4.8	50.6	46.4
	9	2413	203	122	89.6	71	11.1	4.4	49.7	48.4
	10	2412	215	129	89.7	72	10.3	4.1	48.6	48.3

*Continued*

Table A.7 Comparing characteristics and properties of Mark Fisher's pivot and the w-pivot (*Continued*)

Security	Number of days in pivot	Total days *	Average pivot range, ticks		Number of days when opening is outside pivot range to total days, %		Number of plus and minus days to total days, %		Number of days when market breaks through pivot compared to mirror pivot, **	
			pivot	w-pivot	pivot	w-pivot	pivot	w-pivot	pivot	w-pivot
MGN										
T	1	2421	70	35	83.8	76	24.3	21.2	50.3	49.8
	2	2420	102	55	84.4	73	19.5	15	49.2	48.2
	3	2419	125	70	86.4	70.9	17.7	10.8	48.7	45.5
	4	2418	145	82	88.2	73.1	16.6	9.5	49.2	46
	5	2417	163	93	88.2	72.4	14.7	8.1	49	45.4
	6	2416	179	102	89.3	72.7	13.9	7.4	49.1	47.1
	7	2415	192	111	90.4	71.7	13.1	6.4	48.8	48.9
	8	2414	206	119	91.3	71.5	12.2	5.3	48.1	46.8
	9	2413	220	127	92.2	72.1	11.5	4.6	46.9	45.3
	10	2412	234	134	92	72.1	10.1	4	45.3	43.3

Comments:

\* More precisely, the total number of running n-day periods. For example, the total number of days for RI futures is 2424. Then the total number of running 3-day periods is  $2424-3=2421$ .

\*\* More precisely, the ratio of the number of days when the market breaks through the pivot to the number of days when the market breaks through the mirror pivot, in percent

The lower value in the last column among Mark Fisher's pivot and the w-pivot corresponding to the strongest one is highlighted in green.