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Email ernest@total.net phone 416.444.6644 or fax 416.444.7045

Jazz Swing Drummers Groove Analysis by Ernest Cholakis

Beat Ratios 16th quantize		Art Blakey			Art Taylor			Bernard Purdie			Buddy Rich			Donald Bailey			Ed Thigpen			Max Roach		
		Ratios	Dev	Amp	Ratios		Amp	Ratios		Amp	Ratios		Amp	Ratios		Amp	Ratios		Amp	Ratios		Amp
B1	1000	1000	0	92	1000	0	97	1000	0	95	1000	0	95	1000	0	85	1000	0	97	1000	0	92
1	1333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B2	2000	1908	92	100	2005	-5	96	2012	-12	97	2001	-1	99	1954	46	98	1928	72	100	1996	4	100
4	2333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2667	2668	-1	92	2698	-31	96	2690	-23	92	2700	-33	92	2584	83	81	2675	-8	94	2642	25	91
B3	3000	2965	35	91	2987	13	94	3039	-39	95	3013	-13	96	2998	2	89	3007	-7	95	2999	1	93
7	3333	0	0	0	0	0	0	0	0	0	0	0	0		0		0	0	0	0	0	0
8	3667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B4	4000	3903	97	97	4011	-11	99	3999	1	100	3985	15	97	3922	78	99	3918	82	99	3977	23	97
10	4333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	4667	4650	17	93	4732	-65	97	4661	6	92	4706	-39	97	4612	55	81	4660	7	97	4607	60	94
B5	5000	4958	42	93	5009	-9	95	5003	-3	94	5040	-40	95	4949	51	84	5043	-43	97	4978	22	94
13	5333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	5667	0	0	0	5734	-67	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B6	6000	5906	94	96	6006	-6	97	5988	12	99	5986	14	98	5953	47	100	5947	53	99	6000	0	99
16	6333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	6667	6605	62	94	6694	-27	95	6702	-35	90	6634	33	98	6650	17	81	6664	3	87	6636	31	95
B7	7000	6973	27	94	6969	31	97	6990	10	96	6982	18	96	6997	3	92	7001	-1	98	7007	-7	93
19	7333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	7667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B8	8000	7938	62	96	7971	29	100	8017	-17	100	7978	22	100	7958	42	99	7908	92	98	7997	3	97
22	8333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	8667	8653	14	90	8701	-34	94	8671	-4	89	8696	-29	88	8580	87	76	8641	26	94	8645	22	97
B9	9000		0			0			0			0			0			0			0		
Tempo in BPM		210			216			228			208			220			238			203		
Num. of Swing points		4			5			4			4			4			4			4		
Each Swing Ratio		297			289			349			313			414			332			357		
Each Swing Ratio		308			277			342			334			337			383			371		
Each Swing Ratio		368			272			288			348			347			337			371		
Each Swing Ratio		347			275			329			304			420			359			355		
Each Swing Ratio					299																	
Each Swing Ratio																						
Each Swing Ratio																						
Each Swing Ratio																						
Avr Swing		330			282			327			325			380			353			364		

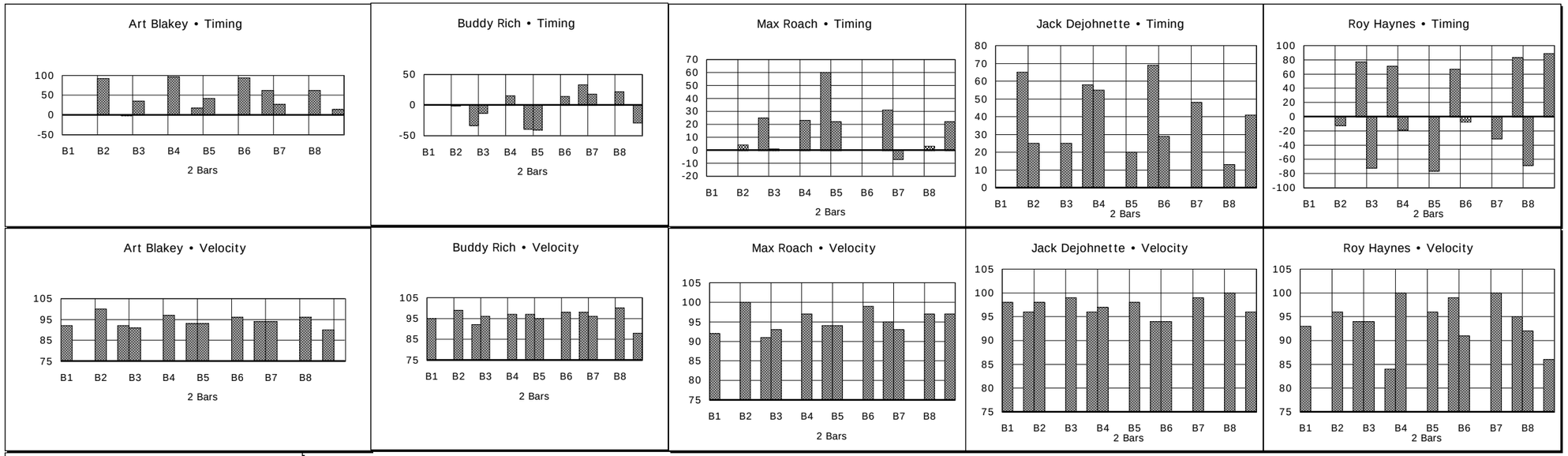
Beat Ratios 16th quantize		Mickey Roker			Philly Jo-Jones			Jack Dejohnette			Elvin Jones 113			Steve Gadd			Roy Haynes			William Kennedy			Tony Williams			Dave Weckel		
		Ratios		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp	Ratio		Amp
B1	1000	1000	0	94	1000	0	94	1000	0	98	1000	0	93	1000	0	94	1000	0	93	1000	0	96	1000	0	93	1000	0	98
1	1333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1667	0	0	0	0	0	0	1602	65	96	0	0	0	1606	61	87	0	0	0	0	0	0	0	0	0	1569	98	94
B2	2000	1942	58	100	1993	7	100	1975	25	98	1987	13	100	1998	2	92	2012	-12	96	1966	34	91	1926	74	98	1922	78	87
4	2333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2667	2660	7	95	2635	32	98	0	0	0	2656	11	93	2604	63	99	2590	77	94	2661	6	88	2681	-14	93	2575	92	99
B3	3000	2997	3	94	3030	-30	86	2975	25	99	3006	-6	89	3052	-52	88	3072	-72	94	2977	23	92	2955	45	96	2943	57	91
7	3333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3667	0	0	0	0	0	0	3609	58	96	0	0	0	3678	-11	85	3596	71	84	0	0	0	3646	21	95	0	0	0
B4	4000	3974	26	97	3943	57	94	3945	55	97	3963	37	92	4053	-53	100	4018	-18	100	3955	45	92	3967	33	94	3899	101	98
10	4333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	4667	4692	-25	90	4737	-70	95	0	0	0	4635	32	93	4622	45	89	0	0	0	4710	-43	87	4655	12	94	4596	71	96
B5	5000	5022	-22	93	5036	-36	98	4980	20	98	5023	-23	93	5045	-45	94	5076	-76	96	4984	16	98	4978	22	95	4944	56	96
13	5333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	5667	0	0	0	0	0	0	5598	69	94	0	0	0	5586	81	86	5600	67	99	0	0	0	0	0	0	0	0	0
B6	6000	6005	-5	98	5965	35	94	5971	29	94	5996	4	98	5998	2	96	6007	-7	91	5950	50	94	5925	75	98	5936	64	100
16	6333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	6667	0	0	0	6661	6	96	0	0	0	6647	20	96	6567	100	98	0	0	0	0	0	0	6646	21	92	6579	88	90
B7	7000	6989	11	97	6978	22	90	6952	48	99	7018	-18	94	7072	-72	89	7031	-31	100	6962	38	100	6964	36	97	6921	79	88
19	7333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	7667	7631	36	99	0	0	0	0	0	0	0	0	0	7596	71	90	7584	83	95	0	0	0	7671	-4	99	7556	111	100
B8	8000	7966	34	95	7927	73	100	7987	13	100	7989	11	94	7999	1	97	8068	-68	92	7939	61	93	8007	-7	100	7916	84	90
22	8333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	8667	8635	32	97	8639	28	97	8626	41	96	8626	41	94	8653	14	82	8578	89	86	8695	-28	92	8682	-15	95	8768	-101	88
B9	9000		0			0			0			0			0			0			0			0			0		
Tempo in BPM		202			224			237			241			249			251			200			228			230		
Num. of Swing points		4			4			4			4			8			5			3			6			6		
Each Swing Ratio		337			395			373			350			392			482			316			274			353		
Each Swing Ratio		330			299			336			388			448			422			274			321			368		
Each Swing Ratio		335			317			373			371			375			407			305			323			348		
Each Swing Ratio		365			361			374			374			423			484						318			342		
Each Swing Ratio														412			422						336			360		
Each Swing Ratio														505									318			232		
Each Swing Ratio														403														
Each Swing Ratio														347														
Avr Swing		342			343			364			371			413			443			298			315			334		

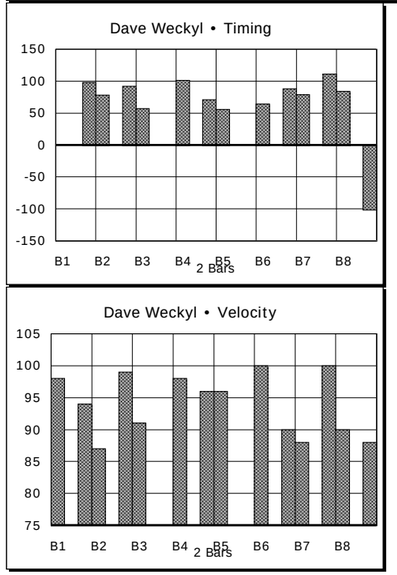
Art Blakey Jazz Messingers - Sincerely Diana groove point 40 sec
Art Taylor Best of John Coltrane - Cousin Mary groove point 46 sec
Bernard Purdie - From Kickin Jazz Sampling CD
Buddy Rich and Max Roach from Rich versus Roach - Big Foot groove point Rich 47 sec Roach 72 sec
Donald Bailey The Best of Jimmy Smith -When Johnny Comes Marching Home groove point 73 sec
Ed Thigpen Oscar Peterson Trio Night Train - C Jam Blues groove point 42 sec
Mickey Roker Herbie Hancock Speak Like A Child - The Sorcerer groove point 41 sec

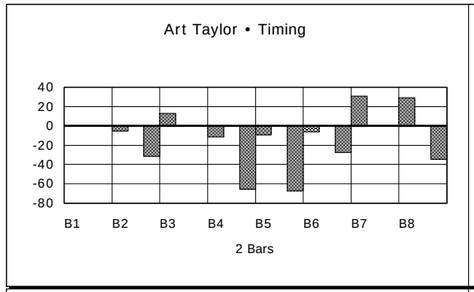
Jack Dejohnette - Keith Jarrett Standards Live - song The Way You Look Tonight groove point 68 sec
Elvin Jones - The Real McCoy -track- Passion Dance groove time 113 sec
Steve Gadd - The Best of Steve Gadd -track-Mr P. C. groove point 44 sec
Roy Haynes - Question and Answer - track - Law Years -groove point 29 sec
William Kennedy - YellowJackets GreenHouse -track- Brown Zone groove point 6 sec
Philly Jo-Jones - Relaxin' with The Miles Davis Quintet -track- I Could write a Book - groove point 94 sec

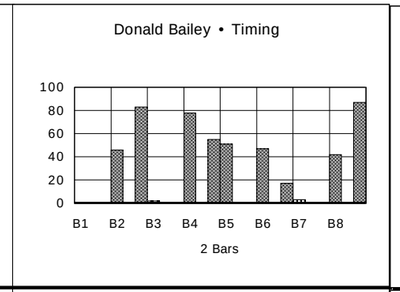
Tony William - Miles Davis Seven Steps to Heaven - track - Joshua - groove point 60 sec
Dave Weckal - Akoustic Band Chick Corea -track Bessie's Blues -groove point 58 sec

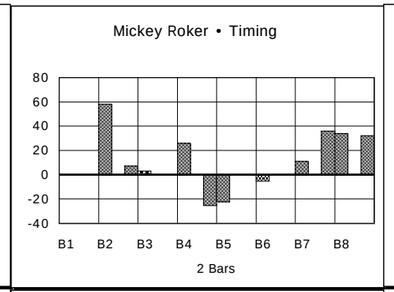
Note amp is the amplitude in decibel (Range0-100) in 1 decibel increments

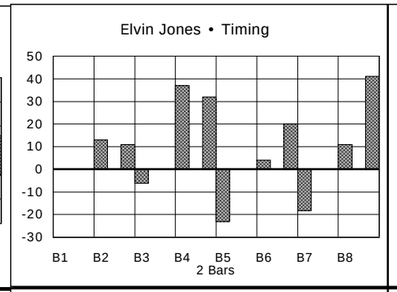

Art Blakey • Timing
Buddy Rich • Timing
Max Roach • Timing
Jack Dejohnette • Timing
Roy Haynes • Timing
Art Blakey • Velocity
Buddy Rich • Velocity
Max Roach • Velocity
Jack Dejohnette • Velocity
Roy Haynes • Velocity
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

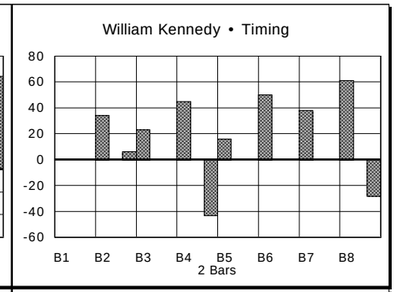

Dave Weckyl • Timing
Dave Weckyl • Velocity
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

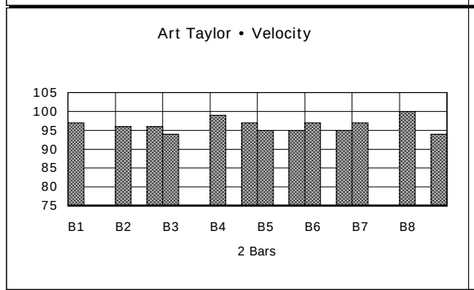

Art Taylor • Timing
40 20 0 -20 -40 -60 -80
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

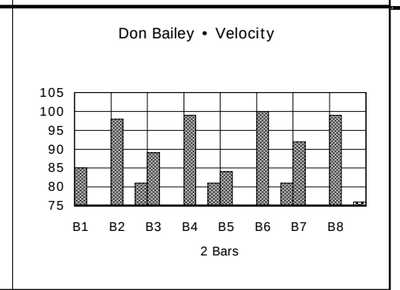

Donald Bailey • Timing
100 80 60 40 20 0
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

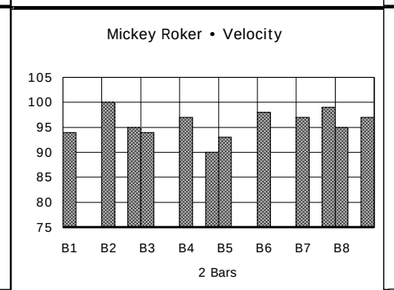

Mickey Roker • Timing
80 60 40 20 0 -20 -40
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

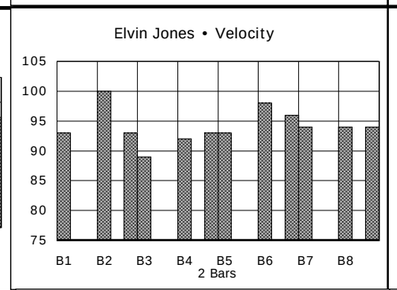

Elvin Jones • Timing
50 40 30 20 10 0 -10 -20 -30
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

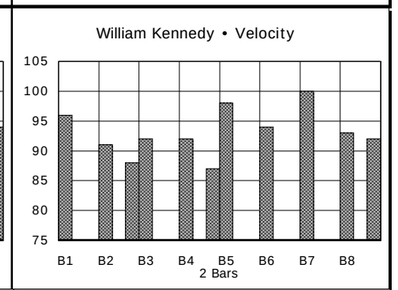

William Kennedy • Timing
80 60 40 20 0 -20 -40 -60
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

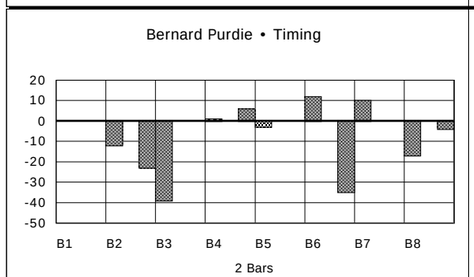

Art Taylor • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

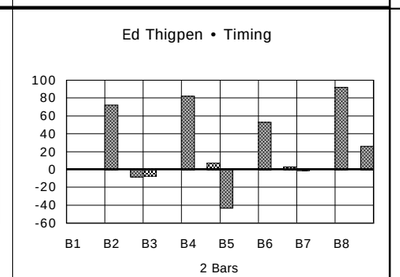

Don Bailey • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

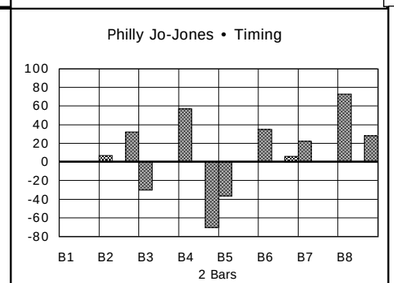

Mickey Roker • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

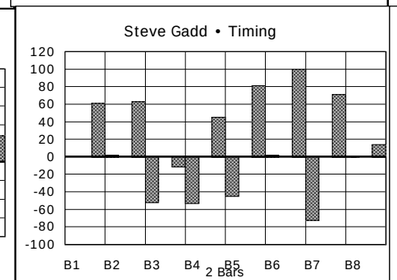

Elvin Jones • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

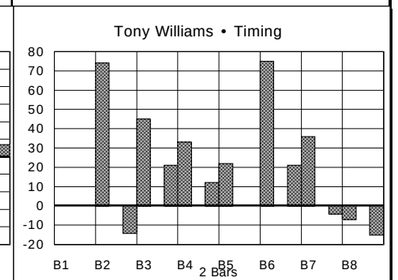

William Kennedy • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

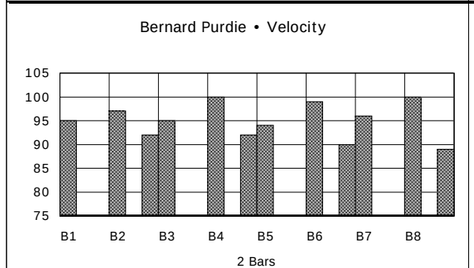

Bernard Purdie • Timing
20 10 0 -10 -20 -30 -40 -50
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

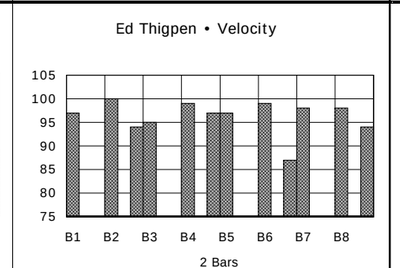

Ed Thigpen • Timing
100 80 60 40 20 0 -20 -40 -60
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

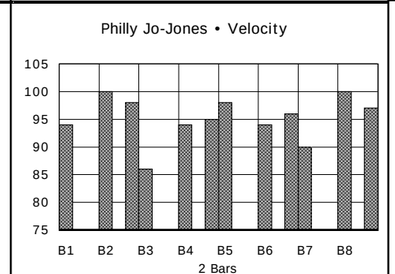

Philly Jo-Jones • Timing
100 80 60 40 20 0 -20 -40 -60 -80
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

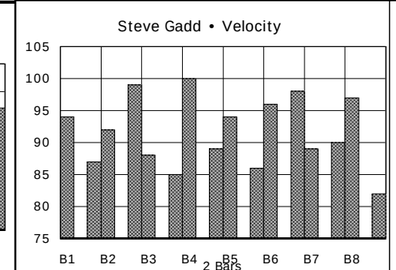

Steve Gadd • Timing
120 100 80 60 40 20 0 -20 -40 -60 -80 -100
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars

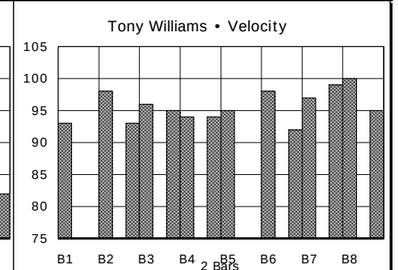

Tony Williams • Timing
80 70 60 50 40 30 20 10 0 -10 -20
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars


Bernard Purdie • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars


Ed Thigpen • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars


Philly Jo-Jones • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars


Steve Gadd • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars


Tony Williams • Velocity
105 100 95 90 85 80 75
B1 B2 B3 B4 B5 B6 B7 B8
2 Bars