| March 1997 | | A | В | C D | E | F | G | н І |] | K | L | М | N | 0 |
|--|----------------|---|------------|--|----------|---------|---------|-----|---|--------------|--------------|--------------|--------------|--------------|
| March 1997 | 2 | dia reed end | | inside diameter of reed end of bocal | | Ħ | | | | HaleJ2 | HaleJ1 | | | |
| A Company 1.5 Control | 4 | metal bocal length top (0, 1) | 320 | meas. along top of bocal | | | | | | | | 327 | 348 | 322 |
| Company Comp | 6 | dia wj end | | inside diameter of bocal | | H | | | | | | | | 11.6 |
| | 9 | bocal logic | 2 | if bocal logic = 0 => bocal is choke; if bocal logic = 1 => choke in wing joint calc; if bocal log | c = 2 = | > no bo | ocal | | | 2 | 2 | 2 | 2 | 2 |
| The content is a second content of the content of | 10 11 | | | | | | | | | | | | | |
| The content of the property | 12 13 | | | | | | | | | | | | | |
| The content | 15 | receiver length (1, 0) (formally choke length) | 80 | logic 1; length of choke from top of wing joint; logic 0; length of receiver (same as string leng | | rer | | | | 65 | 55 | 90 | 55 | 55 |
| A Company | 17 | wing joint length tenon length | 48 | | | Ħ | | | | 48.6 | 45.8 | 529 41.5 | 528 44.8 | 41.7 |
| March Marc | 19 | | | dist top of wing to where tone hole enters bore [not at the center of the tone hole] | | | | | | | | | | |
| 15 15 15 15 15 15 15 15 | 21 22 | | | | | Н | | | | | | | | |
| The color | 23 24 | | 16.6 | Need to Average, usally oval; Peston1 no | | | | | | | | 16.6 | 17 | 17 |
| 1. | 25 26 | Bore dia. top of boot joint large side | 25.4 | | | | | | | 25.1 | 25.1 | 24.5 | 25.3 | 25.2 |
| April | 28 | III. Boot Lengths bi logic | | | | Ħ | | | | 1 | | 1 | 1 | 1 |
| The content of the | 30 31 | bj b hi a | 154 | | | | | | | 154 | 155 | 154 | 157 | 156 |
| Application Company | 32 | | | Preston1 vrfd: total length of boot, include socket, along the small bore side | | H | | | | | | | | |
| April Company Compan | 34 35 | biltotal [Needed for both boot logics] | 429 | total length of boot, include socket, along large bore side | | | | | | 439 | 439 | 432 | 430 0 | 429 0 |
| 200 | 37 | plug large [Need for logic 0 only] | | plug thickness, small bore side | | | | | | | | | 0 | 0 |
| Company Comp | 39 | | 395 395 | hook length along I bore => bil-septum length = boot - septum <= calc the septum | | | | | | 393 393 | | 394 394 | | 393 393 |
| A | 41 | | CM CM | use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick] | 1 | Ħ | | | | 17 | 24 | 18.9 18.9 | 20 20 | |
| Company Comp | 43 | | | | H | H | | | | | | | | |
| Company Comp | 45 46 | septum length exp [Need for logic 0 only] | 0 | dist. from very bottom of boot to septum [point between the large and small bore] | E | ø | | | | 0 | 0 | 0 | 0 | 0 |
| April Company Compan | 47 48 | septum length calc - do not imput value | | dist. From very bottom of boot to spetum [bil - bootl] do not imput v | | Ħ | | | | | | | | |
| 1.5 | 50 | | | Preston1 could not measume. used Hale)2 septum small bore dia [assume = lbore dia sep] | | Ħ | | | | | | | | 19.7 |
| 1 | 51 52 | sep width exp [Need for logic 0 only] | 0 | septum width; direct measurement if remove plug | alue | Ħ | | | | 0 | 0 | 0 | 0 | 0 |
| 1 | 54 55 | sep width - do not imput value | | if by logic = 0 => sep width = sep width exp; if by logic = 1 => sep width = se | | Ħ | | | | | | | | |
| The Note Department The Note Transport The No | 56 | bi q bi f1 | | dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole] dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole] | | H | | | | 361 145 | 362 146 | | | 356 146 |
| N. Times frield Scienteries | 58 59 | | | | | | | | | | | | | |
| 1 | 60 61 | | | | | | | | | | | | | |
| \$ 1. | 63 | IV. Tone Hole Diameters | | | | | | | | | 4.5 | 4.5 | 4.5 | |
| Company Comp | 65 | e d | 5.1 | | 1 | Ħ | | | | 6.3 | 4.5 5.5 | 5.6 | 5.6 | 5.6 |
| A Personal and Fromer Parlies small | 67 68 | c | | | H | H | | | | | 7.1 | | | |
| 1. 1. 1. 1. 1. 1. 1. 1. | 69 70 | b a | 6 5.2 | Preston1 all finger holes small | E | ø | | | | 7 6.1 | 6.5 5.5 | 6.3 5 | 6.9 5.3 | 6 5.2 |
| 11 | 71 72 | g f1 | 8.7 | | E | Ħ | | | | | | | | |
| 1.5 1.0 1.1 1.0 1.0 1.1 1.0 | 73 74 | e1 | | | | H | | | | | | | | |
| 1 | 75 76 77 | c1 | | c1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater] | 1 | Ħ | | | | | | | | |
| 10 1 | 78 79 | | | | H | H | | | | | | | | |
| 1.2 | 80 81 | | | | | | | | | | | | | |
| 2.6.6 | 83 | V. Tone Hole Depths | 26.3 | | E | Ħ | | | | | 27.5 | 26.9 | | |
| 12 2.5 | 85 | e d | 27.6 | | | Ħ | | | | 24.3 25.6 | 26 28.8 | 26.5 25.7 | 29.5 29.5 | 26.7 29 |
| 10 10 10 10 10 10 10 10 | 87 | c h | | | | Ħ | | | | | | | | |
| 12 11 15 15 15 15 15 15 | 89 | a q | 25.3 | meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle] | F | H | | | | 24.4 | 22.5 15.2 | 24.8 17.8 | 24.5 | 23.5 |
| 12.8 d1 to no hole death: meas east/vert with deach assoc lat center, or shortest dist 12 10.3 8.8 7.5 9.8 | 91 92 | f1 | 21.4 | meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] | | | | | | 19.6 | 19 | 27.5 | 25 | 25 |
| 100 | 94 | e1 d1 | 12.8 | d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] | | | | | | 12 | 10.3 | 8.8 | 7.5 | 9.8 |
| 19 | 96 | CI | 11.3 | c1 tone noie depth; meas east/west with deapth gauge [at center, or shortest dist] | | Ħ | | | | 11.6 | 10 | 8.9 | /.8 | 9.2 |
| Description Present There is a table along long limit Present There is a table along limit Present There is not a tone long long it Present There is not a tone long long it Present There is not a tone long long it Present There is not a tone long long it Present There is not a tone long long it Present There is not a tone long long it Present There is not a tone long long it Present There is not a to | 98 | | | | Ħ | Ħ | | | | | | | | |
| 100 1 bot 24.8 100 1 | 100 | VI. Long Joint | | | | | | | | | | | | |
| 100 1 top bore 31 10ng joint top tenon bore diameter (tenon going into bell 30.8 31.3 30.8 30.6 | 102 103 | lg length lg tenon bot | 48.8 | length bottom tenon on long joint [tenon going into boot joint] | E | 目 | | | | 47.7 | 47.1 | 44.9 | 44.7 | 45.2 |
| 100 et distance 55 dist Iona joint tenon to et I from bot of tenon to where tone hole enters borel 58 57 52 51 53 53 53 52 51 53 53 53 53 53 53 53 | 105 | lj_top_bore | 31 | long joint top tenon bore diameter [tenon going into bell] | | Ħ | | | | 30.8 | 31.3 | 30.8 | 30.6 | |
| 100 101 102 103 | 107 | e1 distance | 55 | dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore] | + | Ħ | | | | 58 | 57 | 52 | 51 | 53 |
| 111 | 109 | c1 distance | | | F | Ħ | | | | 435 | 435 | 442 | | 442 |
| 113 | 111 112 | | | | | Ы | | | | | | | | |
| 112 12.3 12.5 1 | 113 114 | | | | | Ħ | | | | | | | | |
| 13 | 116 | VII. Bore diameters at Tone Holes | 12.3 | | | Ħ | | | | 12.3 | | 12.5 | | 12.5 |
| 17.2 16.1 16.6 | 118 | d | | | | | | | | | | | | 13.3 13.8 |
| 123 18.3 18.3 18.1 18 18.3 18.3 18.1 12.5 12 | 120 121 | c b | | | 1 | Ħ | | | | | | | | |
| 124 24 24 24 24 25 25 25 | 122 | g | 18.3 | | F | H | | | | 18.1 | 18 | 18.3 | 18.3 | 18.1 21.1 |
| 128 ct 29.3 Ct tone hole bore diameter on long joint 29.6 29.4 29.8 29.8 29.3 129 | 124 125 | f1 | | | | Ħ | | | | | | | | |
| 123 | 126 127 | e1 d1 | 26.1 | d1 tone hole bore diameter on long joint | | | | | | 26.6 | 26.6 | 26.5 | 27.1 | 24.8 27.1 |
| 131 | 129 | c1 | 29.3 | c1 tone hole bore diameter on long joint | | Ħ | | | | 29.6 | 29.4 | 29.8 | 29.8 | 29.3 |
| 132 VIII. Bell Prestont There is not a tone hole in the bell: | 131 | | | | | Ħ | | | | | | | | |
| 133 bell logic 0 If bell logic = 0 => normal conical bors; if bell logic = 1 => inverted concial bors; if bell logic = 2 => bell expansion 1 1 0 0 1 3 bell length (0, 1, 2) 312 total length to fell, [lines 141 + 144 = line 136] 376 311 312 305 412 bell bot bors (0, 1, 2) 31.7 dia bors at the bottom of bell [red with socket] 32.3 30.9 30.2 30.4 33.3 33 bell top bore (0, 1, 0, 2) 41.7 dia bors at the pottom be besits 58.5 26.6 38 38.7 22.4 32.3 32.3 33.9 33.2 33.9 33.2 33.8 33.6 41.7 | 133 134 | VIII. Bell | | Preston1 There is not a tone hole in the bell: | 1 | Ħ | | | | | | | | |
| 133 bell bot bore (0, 1, 2) | 135 136 | bell logic bell_length (0, 1, 2) | 312 | If bell_logic = 0 => normal conical bore; if bell_logic = 1 => inverted concial bore; if bell_log total length of bell [lines 141 + 144 = line 136] | ic = 2 = | > bell | expansi | ion | | 1 376 | 1 311 | 312 | 312 | 305 |
| 139 bell center bore (only for logic 2) dia bore at max center of expansion | 137 138 | bell bot bore (0, 1, 2) bell top bore 0, (1, 0, 2) | 31.7 | dia bore at the bottom of bell [end with socket] dia bore at the top of bell [where low Bb exits] | F | Ħ | | | | 32.3 | 30.9 | 30.2 | 30.4 | 31.3 27.4 |
| 140 bell wall (only for logic 2) bell wall thickness. Just for David | 139 | bell_center_bore (only for logic 2) | | dia bore at max center of expansion | Ŧ | \Box | | | | | | | - | |

| | A | В | ſ | D | F | F | G | н | 1 | 1 | K | | М | N | 0 |
|------------|--|------------|--|--|----------|--|--|--|----------|---|------------|------------|------------|------------|---------------|
| 141 | bell bot bore expansion (only for logic 2) | ů | dist of bottom to maxium of expansion [including bell socket length,if bell logic | | _ | _ | - 0 | | - | , | | - | - | ., | - |
| 142 | Outside diameter of wood at expansion | | Just for David | | | | | | | | | | | | $\overline{}$ |
| 143 | bell_tenon (0, 1, 0, 2) | 39.5 | bell socket length | | | | | | | | 41.9 | 41 | 37.2 | 37.3 | 36.3 |
| 144 | bell_expansion_length (only for logic 2) | | distance of maxium expansion to top of bell [where Bb exits] | | | | | | | | | | | | |
| 145 | belfig | 69 | Usually about 10mm more than line 138 | | | _ | | | | | 69 | 43.5 | 46 | 31.5 | 36.5 |
| 146 | | | | | | - | | | | | | | | | |
| | IX. PITCH | | | | | - | | | | | | | | | |
| 149 | pitch | 430 | input the historical pitch of the bassoon, must input value, best guess | | | | | - | | | 430 | 430 | 430 | 430 | 430 |
| 150 | freg init | 380 | Initial frequency range variable | | | | | | | | 380 | 380 | 380 | 380 | 380 |
| 151 | Delta frequency | 2 | frequency increment parameter | | | | | | | | 2 | 2 | 2 | 2 | 2 |
| 152 | Number of frequencies | 60 | number of frequencies to scan for min chi sq | | | | | | | | 60 | 60 | 60 | 60 | 60 |
| 153 | | 1.05 | frequency adjustment parameter | | | | | | | | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| 154 | X. Title | | December Collection Developed Collection W. 4 MID DAMA | | | - | | | | | | | | | |
| 156 | title | | Bassoon Calculation: Preston1-O-Veriam-Wg1-WB-DNM | | | | | | | | | | | | |
| 157 | | | Notes on long joint bore: Preston1, normal, not considerable out of round | | | | | | | | | | 0 | | |
| 158 | | | Notes on boot joint bore: Preston1 good shape | | | | | | | | | | | | |
| 159 | XI. Bore Diameter Locations | | Notes on wing joint bore: Preston1 good shape | | | | | | | | | | | | |
| 160 | | 18 | Number of diameters | | | \perp | | | | | 19 | 19 | 16 | 18 | 15 |
| 161 | Bell Bore | 10.7 | Initial bore diameter [do not include in line 160 counting] | | | ₩ | . | - | | | 9.9 | 10.5 | 10.7 | 10.5 | 10.5 |
| 162 | 31.7mm dia. at socket 31.0mm rod 100mm from socket | 0 400 | dist1; measured from the bottom of the wing joint- 10mm dist2: measured from the bottom of the wing joint- 11mm | | _ | \vdash | 1 | | | | 433 387 | 0 390 | 0 394 | 0 408 | 0 410 |
| 163 | 31.0mm rod 100mm from socket 30.0mm rod 135mm from socket | 400 375 | Preston1 vrfd; dist3; measured from the bottom of the wing joint- 11mm Preston1 vrfd; dist3; measured from the bottom of the wing joint- 12mm | l | _ | \vdash | 1 | | | _ | 387 | 390 | 394 314 | 408 325 | 410 332 |
| 165 | 30.0mm rod 165mm from socket | 220 | Preston1 vrid; dist3; measured from the bottom of the wing joint- 12mm Preston1 vrid; dist4; measured from the bottom of the wing joint- 13mm | | | — | 1 | | | | 283 | 250 | 254 | 245 | 255 |
| 166 | 29.0mm rod 245mm from socket | 140 | dist5; measured from the bottom of the wing joint- 14mm | | | | 1 | | | | 203 | 170 | 196 | 177 | 0 |
| 167 | 29.0mm rod 50mm from top of bell | 95 | dist6; measured from the bottom of the wing joint- 15mm | Bottom wing it | 16.3 | | 1 | | | | 120 | 128 | 121 | 122 | 0 |
| 168 | 30.0mm rod 35mm from top of bell | 0 | dist7; measured from the bottom of the wing joint - 16mm | top boot small | 16.6 | | 2 | | | | 0 | 0 | 0 | 0 | 0 |
| 169 | 31.0mm rod 32mm from top of bell | 90 | dist8; measured from the top of the bootjoint - small bore side- 17mm | top boot large | 25.4 | _ | 2 | | | | 83 | 130 | 121 | 120 | 140 |
| 170 | 32.0mm rod 28mm from top of bell | 185 | dist9; measured from the top of the bootjoint - small bore side- 18mm | diameter de la companya della companya della companya de la companya de la companya della compan | 40.7 | _ | 2 | | | | 190 | 200 | 168 | 174 | 178 |
| 172 | 41.7mm dia.at bell end [bell flares] | 260 0 | dist10; measured from the top of the bootjoint -small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm | sbore dia sep | 19.7 | | 2 | | | | 265 0 | 280 310 | 288 | 245 0 | 252 0 |
| 173 | | 350 | dist12; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm | Ibore dia sep Hook Length | 395 | | 3 | - | | | 325 | 255 | 0 | 378 | 375 |
| 174 | | 275 | dist13; measured from the top of the bootjoint - large bore side- 22mm | TIOOK ECITYOT | 333 | | 3 | | | | 225 | 225 | 295 | 265 | 300 |
| 175 | | 205 | dist14; measured from the top of the bootjoint - large bore side- 23mm | | | | 3 | | | | 190 | 180 | 0 | 162 | 162 |
| 176 | | 140 | dist15; measured from the top of the bootjoint - large bore side- 24mm | lj_bot_bore | 24.8 | | 3 | | | | 140 | 163 | 115 | 108 | 125 |
| 177 | | 460 | dist16; measured from the top of the long joint- 25mm | | | _ | 4 | | | | 535 | 530 | 500 | 525 | 485 |
| 178 | | 345 | Preston1 vrfd: dist17: measured from the top of the long joint- 26mm | | | - | 4 | | | | 382 | 365 | 394 | 395 | 415 |
| 180 | | 265 230 | dist18; measured from the top of the long joint- 27mm dist19; measured from the top of the long joint- 28mm | | | | 4 | | | | 300 225 | 300 218 | 295 242 | 332 270 | 330 250 |
| 181 | | 190 | dist20; measured from the top of the long joint- 29mm | | | | 4 | | | | 175 | 163 | 187 | 190 | 160 |
| 182 | | 75 | dist21; measured from the top of the long joint- 30mm | | | | 4 | | | | 108 | 90 | 104 | 106 | 0 |
| 183 | | 0 | dist22; measured from the top of the long joint- 31mm | | | | 4 | | | | 0 | 0 | 0 | 0 | 0 |
| 184 | | 0 | dist23; measured from the top of the long joint- 32mm | lj top bore | 31 | _ | 4 | | | | 0 | 0 | 0 | 0 | 0 |
| 185 | | | | | | ₩ | - | | | | 10 | 10 | | | |
| 186 | | | | - | - | \vdash | - | | | | 11 12 | 11 12 | | | |
| 188 | | | | | | - | | t - | | | 13 | 13 | | | |
| 189 | | | | | | | | | | | 14 | 14 | | | |
| 190 | | | | | | | | | | | 15 | 15 | | | |
| 191 | | | | | | _ | | _ | | | 16 | 16 | | | \Box |
| 192 193 | | - | | l | <u> </u> | 1 | - | - | | | 17 | 17 | | | |
| 193 | | - | | - | - | | - | + | | - | 18 19 | 18 19 | | | - |
| 195 | | | | | — | 1 | | ! | | | 20 | 20 | | | |
| 196 | | | | | | | | 1 | | | 21 | 21 | | | |
| 197 | | | | | | | | | | | 22 | 22 | | | |
| 198 | - | | | | | | | | | | 23 | 23 | | | |
| 199 | | | | | | 1 | | _ | | | 24 | 24 | | | \vdash |
| 200 | | <u> </u> | | | - | \vdash | - | - | \vdash | _ | 25 26 | 25 26 | | | |
| 201 | | - | | | | 1 | - | | | _ | 26 27 | 26 | | | |
| 202 | | | | | | - | - | † | | | 28 | 28 | | | |
| 204 | | | | | | | | | | | 29 | 29 | | | |
| 205 | | | | | | | | | | | 30 | 30 | | | |
| 206 | | | | | | | | | | | 31 | 31 | | | |
| 207 | | | | | | | | | | | 32 | 32 | | | |