

MATERIAL & METHODS

Approach, rationale and conventions followed are as in Part I (Irish 1994).

All quarter degree squares within the study area were sampled successfully. The average sampling intensity (including literature records) is 1.14 sites per quarter degree square, yielding an average of 6.0 specimens and 1.7 species per site. The maximum number of species per site (five) was recorded for sites 274, 283, 313 and 528.

A detailed list of sampling sites follows in Table 1, while all sites are mapped in Fig. 2. Locality numbers follow on from Part I.

In order to place mapped distributions within the study area in a regional context, small side maps of southern Africa have been added to distribution maps. The side maps include only formally published distribution records for the relevant species, and encompass only that part of southern Africa for which significant numbers of Lepismatidae records are available. In many cases they merely serve to emphasize our lack of knowledge, *e.g.* Fig. 8.

In addition to literature listed in Part I, Bolton (1981a, b, 1994) was also used to identify nidicole hosts.

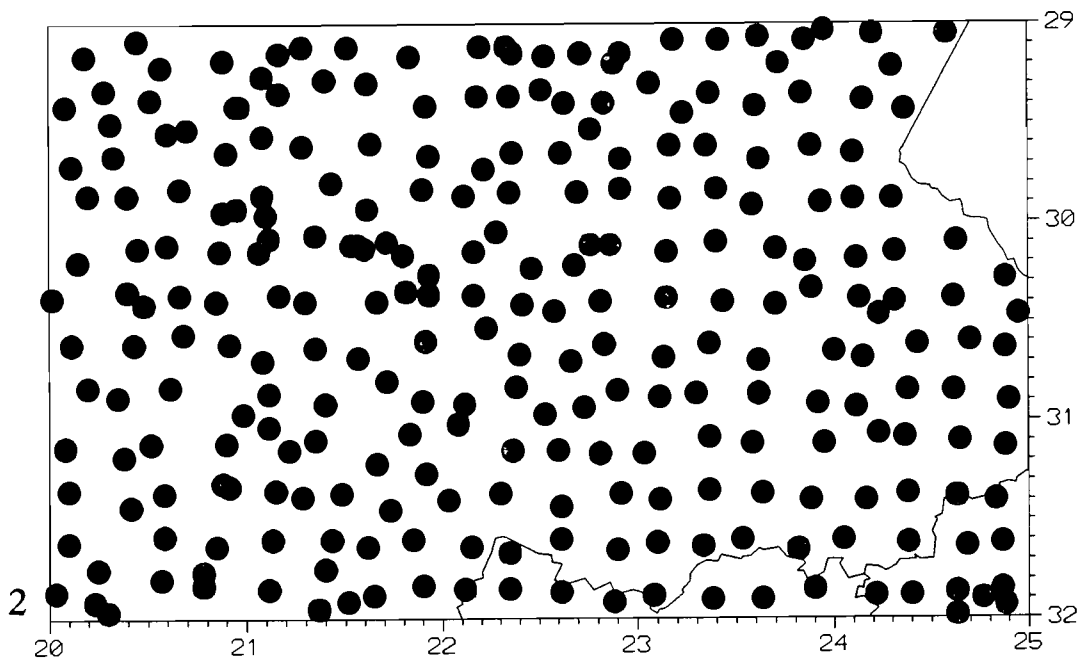


Figure 2: Study area showing sampling sites for Lepismatidae.

TABLE 1

| Locality | Co-ordinates | Alt. | Dates | Leg. | bio | Dep. |
|---|-------------------|--------|-------------|----------------|-----|------|
| NORTHERN CAPE PROVINCE | | | | | | |
| KENHARDT DISTRICT | | | | | | |
| 261 Klein Brypaal | 29°05'S 20°27'E | 840m | 3.IX.1993 | J. Irish | 51 | BMSA |
| 262 Strausshiem | 29°07'S 21°17'E | 930m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 263 Gemsbokbult | 29°07'S 21°31'E | 1020m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 264 N'Rougas | 29°09'S 21°10'E | 900m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 265 8 km N Brulkolk | 29°10'S 20°11'E | 950m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 266 Sonderpan | 29°10'S 21°50'E | 1055m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 267 Gansmond | 29°11'S 20°53'E | 760m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 268 5 km S Rooidam | 29°13'S 20°34'E | 900m | 3.IX.1993 | J. Irish | 51 | BMSA |
| 269 Leeuwkop | 29°16'S 21°05'E | 780m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 270 Varsput | 29°17'S 21°24'E | 920m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 271 Rooiput | 29°18'S 21°37'E | 1005m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 272 T'Oubeep | 29°20'S 20°17'E | 900m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 273 Kenhardt | 29°21'S 21°10'E | 800m | 18.III.1988 | J. Irish | 51 | SMWN |
| 274 5 km E Barsvlei | 29°23'S 20°31'E | 930m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 275 Bossiekom | 29°25'S 20°05'E | 925m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 276 (15 miles ex Kenhardt - Pofadder | ± 29°25'S 20°57'E | ± 890m | | literature | 49) | |
| 277 Reniersrus | 29°25'S 20°58'E | 890m | 17.III.1988 | J. Irish | 49 | SMWN |
| 278 (55 miles ex Kenhardt - Pofadder | ± 29°30'S 20°19'E | ± 930m | | literature | 49) | |
| 279 Groot Swartbas | 29°32'S 20°42'E | 940m | 17.III.1988 | J. Irish | 49 | SMWN |
| 280 Leidammetjies | 29°33'S 20°36'E | 920m | 17.III.1988 | J. Irish | 49 | SMWN |
| 281 Kokerberg | 29°34'S 21°05'E | 920m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 282 Johnniesluck | 29°36'S 21°38'E | 1005m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 283 Soutrivier | 29°37'S 21°17'E | 875m | 18.III.1988 | Irish & Marais | 51 | SMWN |
| 284 Sonderhuis | 29°39'S 20°54'E | 930m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 285 Perdevlei | 29°40'S 20°20'E | 960m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 286 Tierkolk | 29°43'S 20°07'E | 975m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 287 Weltevrede | 29°48'S 21°26'E | 920m | 18.III.1988 | Irish & Marais | 51 | SMWN |
| 288 Klaas Job se Vlei | 29°50'S 20°40'E | 920m | 4.IX.1993 | J. Irish | 51 | BMSA |
| 289 Skansklip B | 29°52'S 20°12'E | 965m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 290 Rusiemaakvloer | 29°52'S 20°24'E | 910m | 3.IX.1993 | J. Irish | 49 | BMSA |
| 291 Vaderlandspan | 29°52'S 21°05'E | 870m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 292 Bloubos Farm | 29°56'S 20°57'E | 900m | 30.IV.1985 | M.-L. Penrith | 49 | TMSA |
| 293 De Hoop | 29°56'S 21°37'E | 910m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 294 Gifbakenkop | 29°57'E 20°53'E | 910m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 295 (Verneukpan at SE2921Cc | ± 29°58'S 21°06'E | ± 860m | | literature | 49) | |
| 296 Nuwerus | 30°05'S 21°07'E | 890m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 297 Kwaggaputs | 30°07'S 20°36'E | 900m | 20.I.1994 | J. Irish | 49 | BMSA |
| 298 (60 miles ex Kenhardt towards Williston | ± 30°09'S 21°04'E | ± 890m | | literature | 49) | |
| PRIESKA DISTRICT | | | | | | |
| 299 Seekoebaard-Wes | 29°07'S 22°12'E | 890m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 300 15 km ENE Marydale | 29°22'S 22°11'E | 940m | 1.IX.1993 | J. Irish | 51 | BMSA |
| 301 5 km S Westerberg | 29°22'S 22°21'E | 930m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 302 Middelpot | 29°25'S 21°55'E | 1085m | 2.IX.1993 | J. Irish | 51 | BMSA |
| 303 Kransfontein | 29°32'S 22°46'E | 1080m | 1.IX.1993 | J. Irish | 51 | BMSA |
| 304 Wildebeespan | 29°37'S 23°10'E | 1050m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 305 Erfdeel | 29°39'S 22°22'E | 1080m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 306 Glen Allen | 29°39'S 22°37'E | 1100m | 6.IX.1993 | J. Irish | 51 | BMSA |
| 307 Wegsteekpan | 29°40'S 21°56'E | 1040m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 308 Cypher | 29°41'S 22°55'E | 980m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 309 2 km NE Bundu | 29°44'S 22°13'E | 1020m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 310 Stompoor | 29°50'S 21°54'E | 1000m | 5.IX.1993 | J. Irish | 49 | BMSA |

| | | | | | | | |
|--------------------------|--|-------------------|-------|--------------|------------|-----|------|
| 311 | 3 km NW Redlands | 29°50'S 22°55'E | 1000m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 312 | Gemeend | 29°51'S 22°21'E | 1140m | 6.IX.1993 | J. Irish | 49 | BMSA |
| 313 | 9 km S Steenkop | 29°51'S 22°42'E | 1100m | 6.IX.1993 | J. Irish | 51 | BMSA |
| 314 | Kielder | 29°52'S 22°07'E | 1070m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 315 | Lammertjiespan | 29°53'S 23°10'E | 990m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 316 | Klippan | 30°03'S 22°17'E | 1050m | 6.IX.1993 | J. Irish | 49 | BMSA |
| 317 | Leeukop | 30°07'S 22°46'E | 1090m | 19.I.1994 | J. Irish | 50 | BMSA |
| 318 | Welgevonden | 30°07'S 22°52'E | 1080m | 6.IX.1993 | J. Irish | 50 | BMSA |
| 319 | Nuwejaarspan | 30°13'S 22°41'E | 1100m | 6.IX.1993 | J. Irish | 50 | BMSA |
| 320 | Rassedam | 30°14'S 22°28'E | 1060m | 6.IX.1993 | J. Irish | 49 | BMSA |
| 321 | Swartplaat | 30°24'S 22°49'E | 1120m | 19.I.1994 | J. Irish | 50 | BMSA |
| 322 | Elandsbeen | 30°27'S 22°35'E | 1160m | 19.I.1994 | J. Irish | 50 | BMSA |
| HAY DISTRICT | | | | | | | |
| 323 | Elandsfontein | 29°05'S 23°11'E | 1130m | 31.VIII.1993 | J. Irish | 31 | BMSA |
| 324 | Lorenza | 29°05'S 23°25'E | 1280m | 31.VIII.1993 | J. Irish | 33 | BMSA |
| 325 | Rooidam | 29°07'S 22°20'E | 975m | 1.IX.1993 | J. Irish | 29 | BMSA |
| 326 | Tolo | 29°09'S 22°43'E | 1310m | 1.IX.1993 | J. Irish | 31 | BMSA |
| 327 | Rietfontein | 29°09'S 22°55'E | 1190m | 1.IX.1993 | J. Irish | 31 | BMSA |
| 328 | Poljaspoort | 29°09'S 22°22'E | 1020m | 1.IX.1993 | J. Irish | 29 | BMSA |
| 329 | 9 km W Abrahamsdam | 29°10'S 22°32'E | 1095m | 1.IX.1993 | J. Irish | 29 | BMSA |
| 330 | (36 mi. ex Griekwastad towards Prieska | ± 29°12'S 22°53'E | 1190m | | literature | 31) | |
| 331 | Klipfontein | 29°18'S 23°04'E | 1090m | 31.VIII.1993 | J. Irish | 51 | BMSA |
| 332 | Chyandour | 29°20'S 22°31'E | 1020m | 1.IX.1993 | J. Irish | 51 | BMSA |
| 333 | Kameelfontein | 29°24'S 22°38'E | 1020m | 1.IX.1993 | J. Irish | 51 | BMSA |
| 334 | 6 km S Niekerkshoop | 29°24'S 22°50'E | 1330m | 31.VIII.1993 | J. Irish | 51 | BMSA |
| HOPETOWN DISTRICT | | | | | | | |
| 335 | Probeerfontein | 29°12'S 23°43'E | 1010m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 336 | Kwartelspan | 29°21'S 23°22'E | 1050m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 337 | Darnysbosch | 29°21'S 23°50'E | 1100m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 338 | Hardevlak | 29°25'S 23°36'E | 1100m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 339 | Vlakpan | 29°27'S 23°14'E | 1070m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 340 | Kafferspan | 29°37'S 23°21'E | 1070m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 341 | Du Toitsdraai | 29°37'S 23°53'E | 1150m | 17.I.1994 | J. Irish | 50 | BMSA |
| 342 | 3 km S Hopetown | 29°39'S 24°06'E | 1140m | 17.I.1994 | J. Irish | 50 | BMSA |
| 343 | Driekop | 29°41'S 23°37'E | 1200m | 17.I.1994 | J. Irish | 51 | BMSA |
| 344 | Kareekloof | 29°50'S 23°24'E | 1100m | 7.IX.1993 | J. Irish | 51 | BMSA |
| 345 | Witpan | 29°53'S 24°06'E | 1150m | 17.I.1994 | J. Irish | 50 | BMSA |
| 346 | Stofpan | 29°53'S 24°18'E | 1130m | 17.I.1994 | J. Irish | 50 | BMSA |
| 347 | Snymansdam | 29°54'S 23°56'E | 1180m | 17.I.1994 | J. Irish | 50 | BMSA |
| 348 | Witpoort | 29°55'S 23°35'E | 1100m | 7.IX.1993 | J. Irish | 50 | BMSA |
| HERBERT DISTRICT | | | | | | | |
| 349 | De Kalk | 29°02'S 23°57'E | 1010m | 31.VIII.1993 | J. Irish | 51 | BMSA |
| 350 | Tafelberg | 29°03'S 24°12'E | 1080m | 31.VIII.1993 | J. Irish | 32 | BMSA |
| 351 | Sedua | 29°03'S 24°35'E | 1130m | 31.VIII.1993 | J. Irish | 32 | BMSA |
| 352 | Maselsfontein | 29°04'S 23°37'E | 1010m | 31.VIII.1993 | J. Irish | 51 | BMSA |
| 353 | Spioenkop | 29°05'S 23°51'S | 1100m | 31.VIII.1993 | J. Irish | 51 | BMSA |
| 354 | Grootkop | 29°13'S 24°18'E | 1230m | 30.VIII.1993 | J. Irish | 32 | BMSA |
| 355 | Egmont | 29°23'S 24°09'E | 1240m | 8.IX.1993 | J. Irish | 51 | BMSA |
| 356 | Belmont | 29°26'S 24°22'E | 1230m | 30.VIII.1993 | J. Irish | 52 | BMSA |
| CALVINIA DISTRICT | | | | | | | |
| 357 | Hoezar Wes | 30°08'S 20°27'E | 920m | 20.I.1994 | J. Irish | 49 | BMSA |
| 358 | Stinkputsrivier | 30°12'S 20°09'E | 930m | 20.I.1994 | J. Irish | 49 | BMSA |
| 359 | Narogana | 30°21'S 20°24'E | 920m | 20.I.1994 | J. Irish | 49 | BMSA |
| 360 | Gifvlei | 30°23'S 20°01'E | 920m | 20.I.1994 | J. Irish | 49 | BMSA |
| 361 | (3 miles ex Brandvlei towards Kenhardt | ± 30°25'S 20°29'E | 920m | | literature | 49) | |
| 362 | Gannapunt | 30°37'S 20°07'E | 960m | 20.I.1994 | J. Irish | 49 | BMSA |

| | | | | | | | |
|---------------------------|------------------------|-----------------|-------|-------------|------------------|-----|-------|
| 363 | 25 km SSW Brandvlei | 30°37'S 20°26'E | 960m | 21.I.1994 | J. Irish | 49 | BMSA |
| 364 | Breekbeen Kolk | 30°50'S 20°12'E | 950m | 21.I.1994 | J. Irish | 49 | BMSA |
| 365 | Kranskop | 30°53'S 20°21'E | 960m | 21.I.1994 | J. Irish | 49 | BMSA |
| 366 | Stompieskolk | 31°07'S 20°31'E | 1030m | 21.III.1994 | J. Irish | 49 | BMSA |
| 367 | Vaalhoek | 31°08'S 20°05'E | 1100m | 22.III.1994 | J. Irish | 56 | BMSA |
| 368 | Grasvlakte | 31°11'S 20°23'E | 990m | 21.III.1994 | J. Irish | 49 | BMSA |
| 369 | Sandwerf | 31°21'S 20°06'E | 1050m | 22.III.1994 | J. Irish | 49 | BMSA |
| 370 | Matjiesvlei | 31°26'S 20°25'E | 1050m | 22.III.1994 | J. Irish | 49 | BMSA |
| 371 | Elandsberg | 31°37'S 20°06'E | 1300m | 22.III.1988 | Irish & Marais | 56 | SMWN |
| 372 | Kookfontein | 31°45'S 20°15'E | 1150m | 22.III.1988 | J. Irish | 49 | SMWN |
| 373 | Bonekraal | 31°48'S 20°34'E | 1150m | 23.III.1994 | J. Irish | 49 | BMSA |
| 374 | Knegsbank | 31°52'S 20°02'E | 1470m | 22.III.1994 | J. Irish | 60 | BMSA |
| 375 | Middelpos | 31°55'S 20°14'E | 1150m | 22.III.1988 | Irish & Marais | 56 | SMWN |
| WILLISTON DISTRICT | | | | | | | |
| 376 | Swartkop | 30°09'S 20°52'E | 940m | 20.I.1994 | J. Irish | 49 | BMSA |
| 377 | De Bulte | 30°22'S 20°40'E | 960m | 21.I.1994 | J. Irish | 49 | BMSA |
| 378 | Hartogskloof | 30°22'S 21°10'E | 950m | 20.I.1994 | J. Irish | 49 | BMSA |
| 379 | Muldersvlei | 30°24'S 20°51'E | 970m | 21.I.1994 | J. Irish | 49 | BMSA |
| 380 | Ysterkop | 30°34'S 20°41'E | 990m | 21.I.1994 | J. Irish | 49 | BMSA |
| 381 | Abrahamsvlei | 30°37'S 20°55'E | 980m | 21.I.1994 | J. Irish | 49 | BMSA |
| 382 | Daskop | 30°42'S 21°05'E | 1050m | 21.I.1994 | J. Irish | 49 | BMSA |
| 383 | Groot Volstruisfontein | 30°50'S 20°37'E | 990m | 21.I.1994 | J. Irish | 49 | BMSA |
| 384 | Biesies | 30°52'S 21°07'E | 1100m | 21.I.1994 | J. Irish | 49 | BMSA |
| 385 | Bokvlak | 30°55'S 21°24'E | 1340m | 22.I.1994 | J. Irish | 49 | BMSA |
| 386 | Boesmanskolk | 30°58'S 20°59'E | 1120m | 22.I.1994 | J. Irish | 49 | BMSA |
| 387 | Swartkloof | 31°02'S 21°07'E | 1300m | 22.I.1994 | J. Irish | 49 | BMSA |
| 388 | Blousyfer | 31°06'S 21°21'E | 1170m | 22.I.1994 | J. Irish | 49 | BMSA |
| 389 | Oranjeputs | 31°07'S 20°54'E | 1140m | 22.I.1994 | J. Irish | 49 | BMSA |
| 390 | Banksfontein | 31°09'S 21°13'E | 1160m | 22.I.1994 | J. Irish | 49 | BMSA |
| 391 | 3 km NW Williston | 31°19'S 20°53'E | 1100m | 22.I.1994 | J. Irish | 49 | BMSA |
| 392 | Williston | 31°20'S 20°55'E | 1075m | 21.I.1994 | J. Irish | 49 | BMSA |
| 393 | Holkom | 31°21'S 21°09'E | 1100m | 21.III.1994 | J. Irish | 49 | BMSA |
| 394 | Leeuriet | 31°22'S 20°35'E | 1150m | 22.III.1994 | J. Irish | 49 | BMSA |
| 395 | Dagbreek | 31°23'S 21°17'E | 1100m | 21.III.1994 | J. Irish | 49 | BMSA |
| 396 | Stofkraal | 31°35'S 20°35'E | 1080m | 22.III.1994 | J. Irish | 49 | BMSA |
| 397 | Verjaagsfontein | 31°36'S 21°08'E | 1150m | 23.III.1994 | J. Irish | 49 | BMSA |
| 398 | Driehoek | 31°38'S 20°51'E | 1160m | 23.III.1994 | J. Irish | 49 | BMSA |
| CARNARVON DISTRICT | | | | | | | |
| 399 | Pierings | 30°04'S 21°21'E | 880m | 4.IX.1993 | J. Irish | 49 | BMSA |
| 400 | Carnarvon District at: | 30°06'S 21°43'E | 920m | 18.III.1988 | Irish & Marais | 49 | SMWN |
| 401 | Olifantsvlei | 30°07'S 21°32'E | 910m | 3-6.V.1985 | M.-L. Penrith | 49 | TMISA |
| | (| | | | also literature) | | |
| 402 | (Breekkierie | 30°07'S 21°34'E | | | literature | 49) | |
| 403 | Breekkierie | 30°08'S 21°36'E | 915m | 18.III.1988 | Irish & Marais | 49 | SMWN |
| 404 | Kleinfourieskolk 10 | 30°09'S 22°10'E | 1000m | 25.X.1990 | L. Lotz | 49 | BMSA |
| 405 | Beesdam | 30°10'S 21°48'E | 930m | 5.IX.1993 | J. Irish | 49 | BMSA |
| 406 | Vredelus | 30°16'S 21°56'E | 950m | 19.I.1994 | J. Irish | 49 | BMSA |
| 407 | Vanwyksvlei | 30°21'S 21°49'E | 975m | 19.III.1988 | J. Irish | 49 | SMWN |
| 408 | Gannavoer | 30°22'S 21°56'E | 1025m | 19.III.1988 | Irish & Marais | 49 | SMWN |
| 409 | Leeukolk | 30°22'S 22°10'E | 1040m | 19.III.1988 | Irish & Marais | 49 | SMWN |
| 410 | Leeukolk | 30°24'S 21°18'E | 970m | 25.X.1990 | L. Lotz | 49 | BMSA |
| 411 | Gansvlei | 30°24'S 21°40'E | 970m | 19.I.1994 | J. Irish | 49 | BMSA |
| 412 | Thomaskop | 30°25'S 22°25'E | 1100m | 19.I.1994 | J. Irish | 49 | BMSA |
| 413 | Makataanspoort | 30°32'S 22°14'E | 1050m | 19.III.1988 | J. Irish | 49 | SMWN |
| 414 | Waverley | 30°36'S 21°55'E | 1050m | 19.I.1994 | J. Irish | 49 | BMSA |
| 415 | Brakputs | 30°38'S 21°21'E | 1020m | 22.I.1994 | J. Irish | 49 | BMSA |
| 416 | Bruinkop | 30°40'S 22°24'E | 1210m | 23.I.1994 | J. Irish | 50 | BMSA |
| 417 | Swartfontein | 30°41'S 21°34'E | 1100m | 22.I.1994 | J. Irish | 49 | BMSA |
| 418 | Hartbeesberg | 30°42'S 22°40'E | 1240m | 23.I.1994 | J. Irish | 50 | BMSA |
| 419 | Nuwebegin | 30°48'S 21°43'E | 1150m | 22.I.1994 | J. Irish | 49 | BMSA |

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|-------------------------------|--|-------------------|-------|-------------|-----------------------------------|-----|------|
| 420 | Rietaar | 30°50'S 22°23'E | 1250m | 23.I.1994 | J. Irish | 50 | BMSA |
| 421 | Konkaspoort | 30°54'S 21°54'E | 1280m | 23.I.1994 | J. Irish | 49 | BMSA |
| 422 | 5 km N Carnarvon | 30°55'S 22°07'E | 1250m | 19.III.1988 | Irish & Marais | 50 | SMWN |
| 423 | 7 km SW Carnarvon | 31°01'S 22°05'E | 1350m | 20.III.1988 | J. Irish | 49 | SMWN |
| 424 | Heuwels | 31°04'S 21°50'E | 1280m | 21.III.1994 | J. Irish | 49 | BMSA |
| 425 | Alarmkraal | 31°09'S 22°22'E | 1475m | 20.III.1994 | J. Irish | 50 | BMSA |
| 426 | Tiervei | 31°16'S 21°55'E | 1300m | 20.III.1988 | Irish & Marais | 50 | SMWN |
| 427 | Rhenosterfontein | 31°22'S 22°18'E | 1400m | 20.III.1988 | J. Irish | 50 | BMSA |
| 428 | Gansvlei | 31°24'S 22°02'E | 1275m | 20.III.1994 | J. Irish | 50 | BMSA |
| BRITSTOWN DISTRICT | | | | | | | |
| 429 | Kommandantskraal | 30°06'S 23°24'E | 1050m | 6.IX.1993 | J. Irish | 50 | BMSA |
| 430 | Kortkop | 30°08'S 23°42'E | 1150m | 17.I.1994 | J. Irish | 50 | BMSA |
| 431 | 3 km E Sodium | 30°09'S 23°09'E | 1035m | 6.IX.1993 | J. Irish | 50 | BMSA |
| 432 | Renostervei | 30°12'S 23°51'E | 1140m | 17.I.1994 | J. Irish | 50 | BMSA |
| 433 | Krugerspan | 30°23'S 23°09'E | 1100m | 18.I.1994 | J. Irish | 50 | BMSA |
| 434 | Schmidtskuil | 30°24'S 23°26'E | 1070m | 18.I.1994 | J. Irish | 50 | BMSA |
| 435 | Cloetesdam | 30°25'S 23°42'E | 1130m | 18.I.1994 | J. Irish | 50 | BMSA |
| 436 | Doorskuilen | 30°37'S 23°22'E | 1120m | 24.I.1994 | J. Irish | 50 | BMSA |
| 437 | Soutwater | 30°41'S 23°08'E | 1130m | 24.I.1994 | J. Irish | 50 | BMSA |
| 438 | Windpoort | 30°42'S 23°37'E | 1300m | 24.I.1994 | J. Irish | 50 | BMSA |
| 439 | Volstruispoort | 30°52'S 23°18'E | 1150m | 23.I.1994 | J. Irish | 50 | BMSA |
| 440 | Amandelplaat | 30°52'S 23°37'E | 1340m | 24.I.1994 | J. Irish | 52 | BMSA |
| DE AAR DISTRICT | | | | | | | |
| 441 | Rhenosterfontein | 30°20'S 23°53'E | 1180m | 18.I.1994 | J. Irish | 50 | BMSA |
| 442 | (De Aar, hills W of | ± 30°39'S 24°00'E | 1250m | | literature | 50) | |
| 443 | Wag-'n-Bietjie | 30°41'S 24°09'E | 1280m | 24.I.1994 | J. Irish | 52 | BMSA |
| PHILIPSTOWN DISTRICT | | | | | | | |
| 444 | 3 km SW Petrusville | 30°06'S 24°38'E | 1240m | 25.I.1994 | J. Irish | 52 | BMSA |
| 445 | Graspan | 30°09'S 24°19'E | 1260m | 18.I.1994 | J. Irish | 50 | BMSA |
| 446 | 3 km N Potfontein | 30°11'S 24°07'E | 1220m | 18.I.1994 | J. Irish | 50 | BMSA |
| 447 | Strydam | 30°23'S 24°08'E | 1330m | 18.I.1994 | J. Irish | 50 | BMSA |
| 448 | ('Streydom by Filipstown', probably = Strydam above | | | | literature) | | |
| 449 | Wurmfontein | 30°23'S 24°37'E | 1310m | 25.I.1994 | J. Irish | 52h | BMSA |
| 450 | Tierberg, S. at: | 30°24'S 24°19'E | 1480m | 18.I.1994 | J. Irish | 52h | BMSA |
| 451 | (18 mi. De Aar to Philipstown | ± 30°28'S 24°14'E | 1440m | | literature | 52) | |
| 452 | Naauppoort | 30°36'S 24°42'E | 1430m | 14.III.1994 | J. Irish | 52 | BMSA |
| 453 | Groenpan | 30°37'S 24°26'E | 1475m | 24.I.1994 | J. Irish | 52 | BMSA |
| COLESBERG DISTRICT | | | | | | | |
| 454 | Matjiesfontein | 30°17'S 24°53'E | 1300m | 25.I.1994 | J. Irish | 52h | BMSA |
| 455 | Tweedepoort | 30°28'S 24°57'E | 1250m | 25.I.1994 | J. Irish | 52h | BMSA |
| 456 | Riverside | 30°38'S 24°53'E | 1250m | 14.III.1994 | J. Irish | 52 | BMSA |
| 457 | Elandsfontein | 30°54'S 24°54'E | 1450m | 14.III.1994 | J. Irish | 52 | BMSA |
| VICTORIA WEST DISTRICT | | | | | | | |
| 458 | 5 km SW. Vosburg | 30°37'S 22°50'E | 1160m | 19.I.1994 | J. Irish | 50 | BMSA |
| 459 | Edenville | 30°51'S 22°54'E | 1180m | 23.I.1994 | J. Irish | 50 | BMSA |
| 460 | Vergenoeg | 30°53'S 23°07'E | 1220m | 23.I.1994 | J. Irish | 50 | BMSA |
| 461 | Rooiwal | 30°56'S 22°44'E | 1240m | 23.I.1994 | J. Irish | 50 | BMSA |
| 462 | Waaipuntnek | 30°58'S 22°32'E | 1440m | 23.I.1994 | J. Irish | 50 | BMSA |
| 463 | Dombietersfontein | 31°05'S 23°22'E | 1225m | 18.III.1994 | J. Irish | 50 | BMSA |
| 464 | Dassiekoppe | 31°09'S 22°36'E | 1350m | 20.III.1994 | J. Irish | 50 | BMSA |
| 465 | Kweekwa | 31°10'S 22°49'E | 1300m | 20.III.1994 | J. Irish | 50 | BMSA |
| 466 | Sputpoort | 31°10'S 23°02'E | 1250m | 18.III.1994 | J. Irish | 50 | BMSA |
| 467 | Brakpoort | 31°21'S 23°22'E | 1250m | 18.III.1994 | J. Irish | 52 | BMSA |
| 468 | Vrede | 31°22'S 22°55'E | 1325m | 19.III.1994 | J. Irish | 50 | BMSA |
| 469 | Victoria West (| 31°24'S 23°07'E | 1275m | 17.IX.1983 | M.-L. Penrith also literature) | 50 | SMWN |

| | | | | | | | |
|------------------------------|----------------------------------|-------------------|-------|-------------|--------------------------------|-----|------|
| 470 | (Victoria West Nature Reserve | ± ditto | | | literature) | | |
| 471 | Vaalkop | 31°26'S 22°37'E | 1350m | 20.III.1994 | J. Irish | 50 | BMSA |
| 472 | Kwaggashoogte | 31°36'S 22°37'E | 1500m | 24.III.1994 | J. Irish | 50 | BMSA |
| 473 | Eendvogelfontein | 31°37'S 23°06'E | 1340m | 19.III.1994 | J. Irish | 50 | BMSA |
| 474 | Bulthoudersfontein | 31°38'S 23°20'E | 1260m | 19.III.1994 | J. Irish | 50 | BMSA |
| 475 | Boschrug | 31°39'S 22°54'E | 1280m | 19.III.1994 | J. Irish | 50 | BMSA |
| 476 | Drie Susters | 31°53'S 23°05'E | 1140m | 19.III.1994 | J. Irish | 50 | BMSA |
| RICHMOND DISTRICT | | | | | | | |
| 477 | Mynfontein | 30°55'S 23°55'E | 1330m | 24.I.1994 | J. Irish | 52 | BMSA |
| 478 | Skerprant | 31°07'S 23°35'E | 1300m | 18.III.1993 | J. Irish | 52 | BMSA |
| 479 | Gt. Tafelberg, voet | 31°07'S 23°57'E | 1500m | 17.III.1994 | J. Irish | 52 | BMSA |
| 480 | Klipkraal | 31°22'S 23°38'E | 1310m | 18.III.1994 | J. Irish | 52 | BMSA |
| 481 | Taaiboslaagte | 31°24'S 23°53'E | 1390m | 17.III.1994 | J. Irish | 52 | BMSA |
| 482 | Nooitverwag | 31°24'S 24°10'E | 1525m | 17.III.1994 | J. Irish | 52 | BMSA |
| 483 | Blouberg | 31°36'S 23°32'E | 1300m | 18.III.1994 | J. Irish | 52 | BMSA |
| 484 | Langford Hill | 31°36'S 24°03'E | 1620m | 17.III.1994 | J. Irish | 52 | BMSA |
| 485 | Sneeukuil | 31°37'S 24°23'E | 1590m | 16.III.1994 | J. Irish | 52 | BMSA |
| 486 | Lapfontein | 31°39'S 23°49'E | 1350m | 17.III.1994 | J. Irish | 52 | BMSA |
| HANOVER DISTRICT | | | | | | | |
| 487 | Skilpadkuil | 30°51'S 24°23'E | 1390m | 24.I.1994 | J. Irish | 52 | BMSA |
| 488 | Boesmansvlei | 30°51'S 24°37'E | 1350m | 14.III.1994 | J. Irish | 52 | BMSA |
| 489 | Kwesfontein | 30°56'S 24°07'E | 1360m | 24.I.1994 | J. Irish | 52 | BMSA |
| 490 | Steenkampskraal | 31°04'S 24°14'E | 1420m | 18.III.1993 | L. Lotz | 52 | BMSA |
| 491 | 7 km W Hanover | 31°05'S 24°22'E | 1430m | 16.III.1994 | J. Irish | 52 | BMSA |
| 492 | Plaatjiesfontein | 31°06'S 24°39'E | 1400m | 16.III.1994 | J. Irish | 52 | BMSA |
| 493 | Brimscombe | 31°22'S 24°23'E | 1450m | 16.III.1994 | J. Irish | 52 | BMSA |
| NOUPOORT DISTRICT | | | | | | | |
| 494 | Carolus | 31°08'S 24°53'E | 1450m | 14.III.1994 | J. Irish | 52 | BMSA |
| FRASERBURG DISTRICT | | | | | | | |
| 495 | Winkelhaak | 31°13'S 21°40'E | 1290m | 20.III.1994 | J. Irish | 49 | BMSA |
| 496 | Stoeffontein | 31°22'S 21°29'E | 1190m | 21.III.1994 | J. Irish | 49 | BMSA |
| 497 | Brakvlei | 31°27'S 21°44'E | 1200m | 20.III.1988 | Irish & Marais | 49 | SMWN |
| 498 | Uitspanning | 31°36'S 21°26'E | 1200m | 21.III.1994 | J. Irish | 49 | BMSA |
| 499 | Tabaksfontein | 31°36'S 21°51'E | 1240m | 24.III.1994 | J. Irish | 50 | BMSA |
| 500 | Jakkalsfontein | 31°38'S 21°37'E | 1200m | 20.III.1988 | Irish & Marais | 49 | SMWN |
| 501 | Juriesfontein | 31°38'S 22°09'E | 1380m | 24.III.1994 | J. Irish | 50 | BMSA |
| 502 | 42 mi. ex Williston - Fraserburg | ± 31°45'S 21°24'E | 1275m | 13.XI.1960 | W.G.H. Coaton also literature) | 49 | SANC |
| 503 | Sandheuwel | 31°46'S 20°47'E | 1100m | 23.III.1994 | J. Irish | 49 | BMSA |
| 504 | 7 km S. Vlieëkraal | 31°50'S 20°47'E | 1150m | 23.III.1994 | J. Irish | 49 | BMSA |
| 505 | Goodhope | 31°50'S 21°54'E | 1275m | 24.III.1994 | J. Irish | 50 | BMSA |
| 506 | Jaagleegte | 31°51'S 21°07'E | 1250m | 23.III.1994 | J. Irish | 49 | BMSA |
| 507 | Minverwagspoort | 31°51'S 22°07'E | 1350m | 24.III.1994 | J. Irish | 50 | BMSA |
| 508 | Klerksville | 31°53'S 21°39'E | 1310m | 23.III.1994 | J. Irish | 50 | BMSA |
| 509 | Fraserburg | 31°55'S 21°31'E | 1270m | 21.III.1988 | Irish & Marais | 49 | SMWN |
| 510 | Droogvoetsfontein | 31°57'S 21°22'E | 1330m | 23.III.1994 | J. Irish | 49 | BMSA |
| SUTHERLAND DISTRICT | | | | | | | |
| 511 | Muldersfontein | 31°58'S 20°18'E | 1300m | 22.III.1988 | E. Marais | 56 | SMWN |
| EASTERN CAPE PROVINCE | | | | | | | |
| MIDDELBURG DISTRICT | | | | | | | |
| 512 | Paardevlei | 31°23'S 24°38'E | 1440m | 16.III.1994 | J. Irish | 52 | BMSA |
| 513 | Weltevreden | 31°24'S 24°50'E | 1780m | 15.III.1994 | J. Irish | 44 | BMSA |
| 514 | De Hoek | 31°37'S 24°52'E | 1375m | 15.III.1994 | J. Irish | 52 | BMSA |
| 515 | Eindelik | 31°38'S 24°41'E | 1590m | 15.III.1994 | J. Irish | 44 | BMSA |
| 516 | (Lootsberg | ± 31°51'S 24°52'E | 1830m | | literature | 44) | |

GRAAFF-REINET DISTRICT

| | | | | | | | |
|-----|----------------|-----------------|-------|-------------|---------------|----|------|
| 517 | Patryfontein | 31°52'S 24°38'E | 1475m | 15.III.1994 | J. Irish | 44 | BMSA |
| 518 | Tweefontein | 31°53'S 24°13'E | 1420m | 16.III.1994 | J. Irish | 52 | BMSA |
| 519 | Michielshoogte | 31°53'S 24°24'E | 1520m | 16.III.1994 | J. Irish | 44 | BMSA |
| 520 | Bethesdaeweg | 31°54'S 24°46'E | 1400m | 15.III.1994 | J. Irish | 52 | BMSA |
| 521 | Wapadsbergpas | 31°56'S 24°53'E | 1725m | 23.II.1995 | J. Irish | 44 | BMSA |
| 522 | Wellwood | 31°59'S 24°38'E | 1200m | 13.IX.1983 | M.-L. Penrith | 52 | SMWN |

WESTERN CAPE PROVINCE

BEAUFORT WEST DISTRICT

| | | | | | | | |
|-----|------------------|-----------------|-------|-------------|----------|----|------|
| 523 | Midlands | 31°40'S 22°21'E | 1420m | 24.III.1994 | J. Irish | 50 | BMSA |
| 524 | Stuurmanskop | 31°51'S 22°21'E | 1520m | 24.III.1994 | J. Irish | 50 | BMSA |
| 525 | Booiskraal | 31°52'S 22°37'E | 1370m | 24.III.1994 | J. Irish | 50 | BMSA |
| 526 | Taaiboschfontein | 31°55'S 22°53'E | 1200m | 19.III.1994 | J. Irish | 54 | BMSA |

MURRAYSBURG DISTRICT

| | | | | | | | |
|-----|------------|-----------------|-------|-------------|----------|----|------|
| 527 | Trouberg | 31°51'S 23°54'E | 1430m | 17.III.1994 | J. Irish | 52 | BMSA |
| 528 | Waterval | 31°54'S 23°23'E | 1220m | 19.III.1994 | J. Irish | 52 | BMSA |
| 529 | Eloffshoek | 31°54'S 23°38'E | 1125m | 17.III.1994 | J. Irish | 54 | BMSA |

A previously unutilised character in *Ctenolepisma*

Many South African *Ctenolepisma* spp. have a distinctive pattern of tiny bare spots on the thoracic nota, and sometimes also on the urotergites (e.g. Fig. 25). The scales surrounding the spots are actually indented around the spots (Fig. 25). Unfortunately scale loss during or after capture often obliterates all traces of these spots. They are best visible in pre-cydial individuals, where the pristine scale cover of the new integument is already visible beneath the opaque old one. The number and arrangement of spots are mostly bilaterally symmetrical, but not always exactly so.

The spots are not confined to *Ctenolepisma*, but are also found in e.g. *Afrolepisma*. Although the spots greatly resemble the closed trichobothrial areas of the latter taxon, almost all are quite bare and do not surround any trichobothria.

The only inclusions in the spots observed so far, are four tiny setae, associated with four particular spots on the pronota only of several South African *Ctenolepisma* spp. These setae (too short to be considered trichobothria) are often almost impossible to see except in slide mounted material. Both spots and setae have been ignored in descriptions till now. A detailed study of the thoracic notal discal setae and spots, as well as some other neglected characters in the Lepismatidae, is being prepared for separate publication. Till then their inclusion in descriptions below is intended to draw attention to the character. Not enough is known to yet decide whether any particular character states as described have species-specific or generic significance. More satisfactory terminology than 'bare spot' also awaits more clarity as to the homologies of the spots.