

THE ROSNEATH PENINSULA BEES

Denmark



Denmark



Ireland



Ireland





History

- ▣ Formed in 2007
- ▣ Originally 11 members on the Peninsula
- ▣ Approx 35 hives

Rosneath Peninsula



OS Grid NS 289 799

0 Metres

OS 1:50,000



Group Aims

- ▣ Produce a Unique Queen ID Code
- ▣ Standardise Hive Records
- ▣ Produce a Stud Book
- ▣ To Check the Morphometry
- ▣ Select Suitable Breeding Stock
- ▣ Find an Isolated Mating Site

Bee Morphometry Record Sheet

Beekeeper Petra
 Colony Reference Clc 2
 Date of Sample 13/03/2007
 Number in Sample 38

| | Cubital Index | Discoidal Shift |
|---------|---------------|-----------------|
| Minimum | 0.832 | -9.150 |
| Maximum | 2.143 | 0.029 |
| Average | 1.663 | -3.468 |

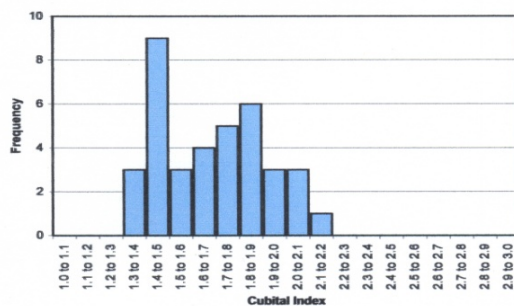
| Sample | Cubital Index | Discoidal Shift |
|--------|---------------|-----------------|
| 1 | 1.914 | -2.624 |
| 2 | 1.381 | -2.303 |
| 3 | 1.481 | -3.296 |
| 4 | 2.045 | -4.493 |
| 5 | 1.483 | -5.932 |
| 6 | 1.691 | -3.974 |
| 7 | 1.482 | -1.394 |
| 8 | 1.701 | -3.166 |
| 9 | 1.511 | -2.965 |
| 10 | 1.441 | -3.304 |
| 11 | 1.988 | -6.924 |
| 12 | 1.947 | -3.233 |
| 13 | 1.719 | -1.214 |
| 14 | 1.756 | -2.955 |
| 15 | 1.790 | -4.361 |
| 16 | 2.100 | -1.370 |
| 17 | 1.436 | -1.358 |
| 18 | 1.419 | -3.656 |
| 19 | 1.637 | -5.642 |
| 20 | 1.487 | -1.685 |
| 21 | 1.844 | -2.064 |
| 22 | 1.835 | 0.029 |
| 23 | 1.825 | -1.013 |
| 24 | 1.805 | -3.872 |
| 25 | 1.319 | -4.113 |
| 26 | 1.827 | -5.718 |
| 27 | 1.411 | -3.246 |
| 28 | 0.832 | -2.979 |
| 29 | 1.487 | -5.711 |
| 30 | 1.544 | -2.894 |
| 31 | 1.847 | -2.645 |
| 32 | 1.642 | -5.242 |
| 33 | 2.143 | -5.050 |
| 34 | 1.610 | -3.056 |
| 35 | 1.786 | -9.150 |
| 36 | 2.095 | -1.338 |
| 37 | 1.560 | -6.799 |
| 38 | 1.374 | -1.086 |

| Colour | Number | Percent |
|-----------|--------|---------|
| All Black | | |
| Spots | | |
| 1 Ring | | |
| 2 Rings | | |

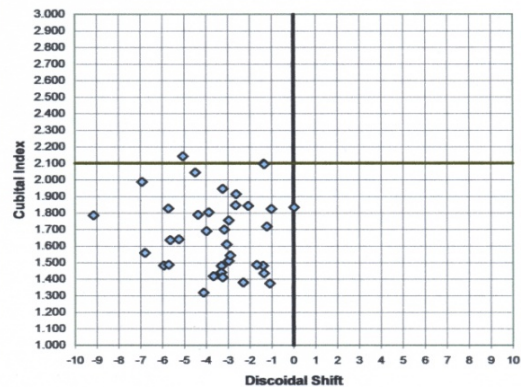
| Overhairs | Number | Percent |
|--------------|--------|---------|
| < 0.3mm | | |
| 0.3 to 0.4mm | | |
| > 0.4mm | | |

| Tomenta | Number | Percent |
|---------|--------|---------|
| Broad | | |
| Medium | | |
| Narrow | | |

Cubital Index Frequency Distribution



Cubital Index vs Discoidal Shift



Bee Morphometry Record Sheet

Beekeeper Ben Bellamy
 Colony Reference POa10.06 Rpt
 Date of Sample 17/01/2007
 Number in Sample 50

| | Cubital Index | Discoidal Shift |
|---------|---------------|-----------------|
| Minimum | 1.303 | -2.809 |
| Maximum | 2.678 | 6.646 |
| Average | 2.054 | 2.586 |

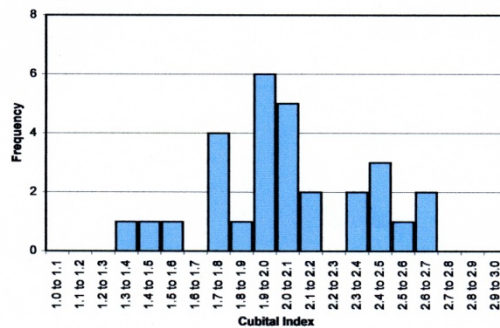
| Sample | Cubital Index | Discoidal Shift |
|--------|---------------|-----------------|
| 1 | 1.995 | -1.671 |
| 2 | 1.739 | 1.237 |
| 3 | 2.678 | 2.462 |
| 4 | 2.072 | 4.290 |
| 5 | 1.853 | 2.923 |
| 6 | 2.014 | 3.087 |
| 7 | 1.970 | 1.248 |
| 8 | 2.418 | 3.786 |
| 9 | 1.790 | 0.572 |
| 10 | 1.779 | 1.086 |
| 11 | 1.442 | 4.630 |
| 12 | 1.303 | 2.287 |
| 13 | 2.615 | 3.343 |
| 14 | 2.001 | 3.084 |
| 15 | 2.459 | 5.240 |
| 16 | 1.910 | 0.400 |
| 17 | 1.785 | -2.809 |
| 18 | 2.373 | 4.861 |
| 19 | 1.573 | 2.728 |
| 20 | 2.493 | 4.365 |
| 21 | 2.178 | 6.646 |
| 22 | 2.571 | 3.173 |
| 23 | 1.971 | 1.914 |
| 24 | 2.156 | 4.487 |
| 25 | 1.908 | 3.785 |
| 26 | 2.093 | -0.036 |
| 27 | 1.996 | 0.549 |
| 28 | 2.386 | 2.280 |
| 29 | 2.038 | 5.045 |

| Colour | Number | Percent |
|-----------|--------|---------|
| All Black | | |
| Spots | | |
| 1 Ring | | |
| 2 Rings | | |

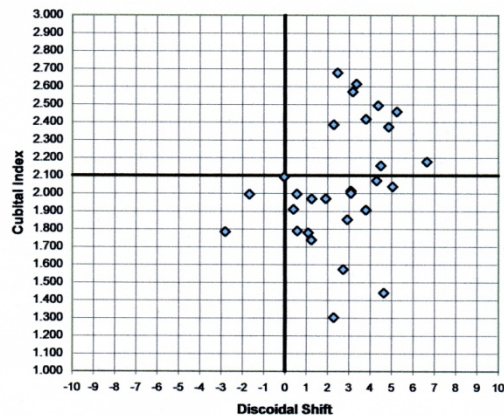
| Overhairs | Number | Percent |
|--------------|--------|---------|
| < 0.3mm | | |
| 0.3 to 0.4mm | | |
| > 0.4mm | | |

| Tomenta | Number | Percent |
|---------|--------|---------|
| Broad | | |
| Medium | | |
| Narrow | | |

Cubital Index Frequency Distribution



Cubital Index vs Discoidal Shift



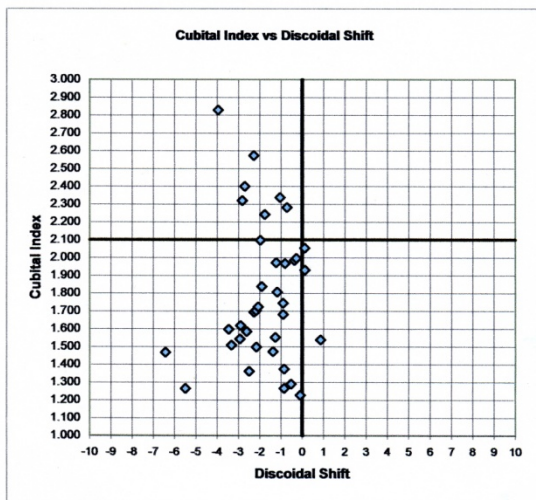
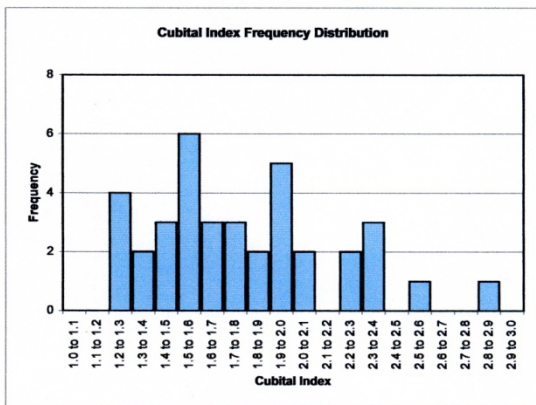
Bee Morphometry Record Sheet

Beekeeper Becky
 Colony Reference Gia3.??
 Date of Sample 30/01/2007
 Number in Sample 39 *RPT.*

| | Cubital Index | Discoidal Shift |
|---------|---------------|-----------------|
| Minimum | 1.228 | -6.426 |
| Maximum | 4.940 | 218.428 |
| Average | 1.937 | 6.121 |

| Sample | Cubital Index | Discoidal Shift |
|--------|---------------|-----------------|
| 1 | 1.585 | -2.610 |
| 2 | 1.744 | -0.904 |
| 3 | | |
| 4 | 1.681 | -0.899 |
| 5 | 1.265 | -5.491 |
| 6 | 1.694 | -2.262 |
| 7 | 1.838 | -1.904 |
| 8 | 1.972 | -1.230 |
| 9 | 1.228 | -0.093 |
| 10 | 1.362 | -2.489 |
| 11 | 2.243 | -1.765 |
| 12 | 1.807 | -1.173 |
| 13 | 1.619 | -2.896 |
| 14 | 1.967 | -0.810 |
| 15 | 2.400 | -2.704 |
| 16 | 1.703 | -2.168 |
| 17 | 1.509 | -3.321 |
| 18 | 1.597 | -3.456 |
| 19 | 1.723 | -2.065 |
| 20 | 1.473 | -1.380 |
| 21 | 1.290 | -0.522 |
| 22 | 1.985 | -0.367 |
| 23 | 2.282 | -0.722 |
| 24 | 2.338 | -1.053 |
| 25 | 1.996 | -0.281 |
| 26 | 1.468 | -6.426 |
| 27 | 1.543 | -2.927 |
| 28 | 1.375 | -0.851 |
| 29 | 4.940 | 87.228 |
| 30 | 4.246 | 218.428 |
| 31 | 2.099 | -1.967 |
| 32 | 1.931 | 0.133 |
| 33 | 2.320 | -2.816 |
| 34 | 1.498 | -2.159 |
| 35 | 1.539 | 0.861 |
| 36 | 2.054 | 0.119 |
| 37 | 1.553 | -1.270 |
| 38 | 2.574 | -2.279 |
| 39 | 1.266 | -0.855 |

| | Number | Percent |
|-----------|--------------|---------|
| Colour | All Black | |
| | Spots | |
| | 1 Ring | |
| | 2 Rings | |
| Overhairs | < 0.3mm | |
| | 0.3 to 0.4mm | |
| | > 0.4mm | |
| Tomenta | Broad | |
| | Medium | |
| | Narrow | |





Group Difficulties

- ▣ Most of the beekeeper inexperienced
- ▣ Difficulty in scoring characteristics
- ▣ Operator error in Beemorph measurements
- ▣ Group ran out of enthusiasm



Beekeeper Training

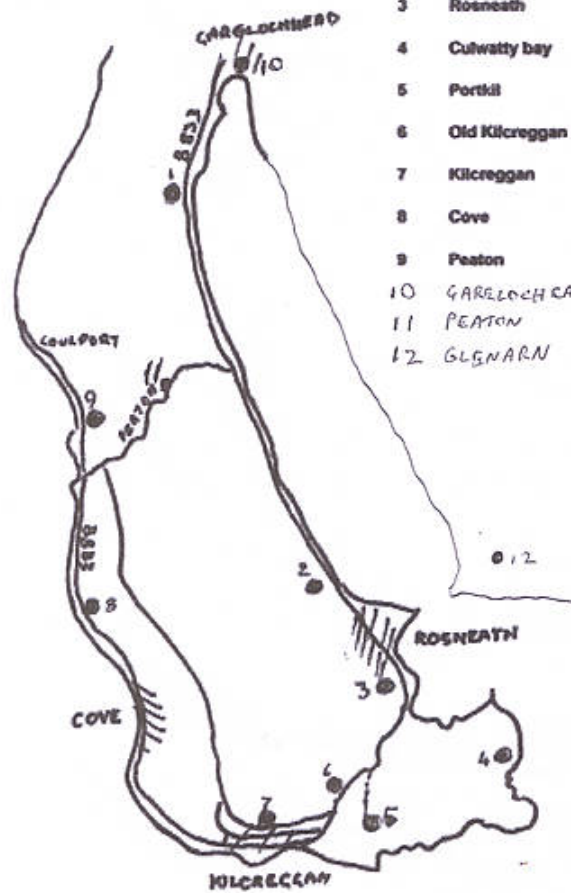
- ▣ Stoneleigh (Spring Convention)
- ▣ SICCAMM
- ▣ BIBBA
(Training for trainers course on Morphometry)
- ▣ Bee Breeders Course (Fife)

Peaton hill Community Nature Reserve



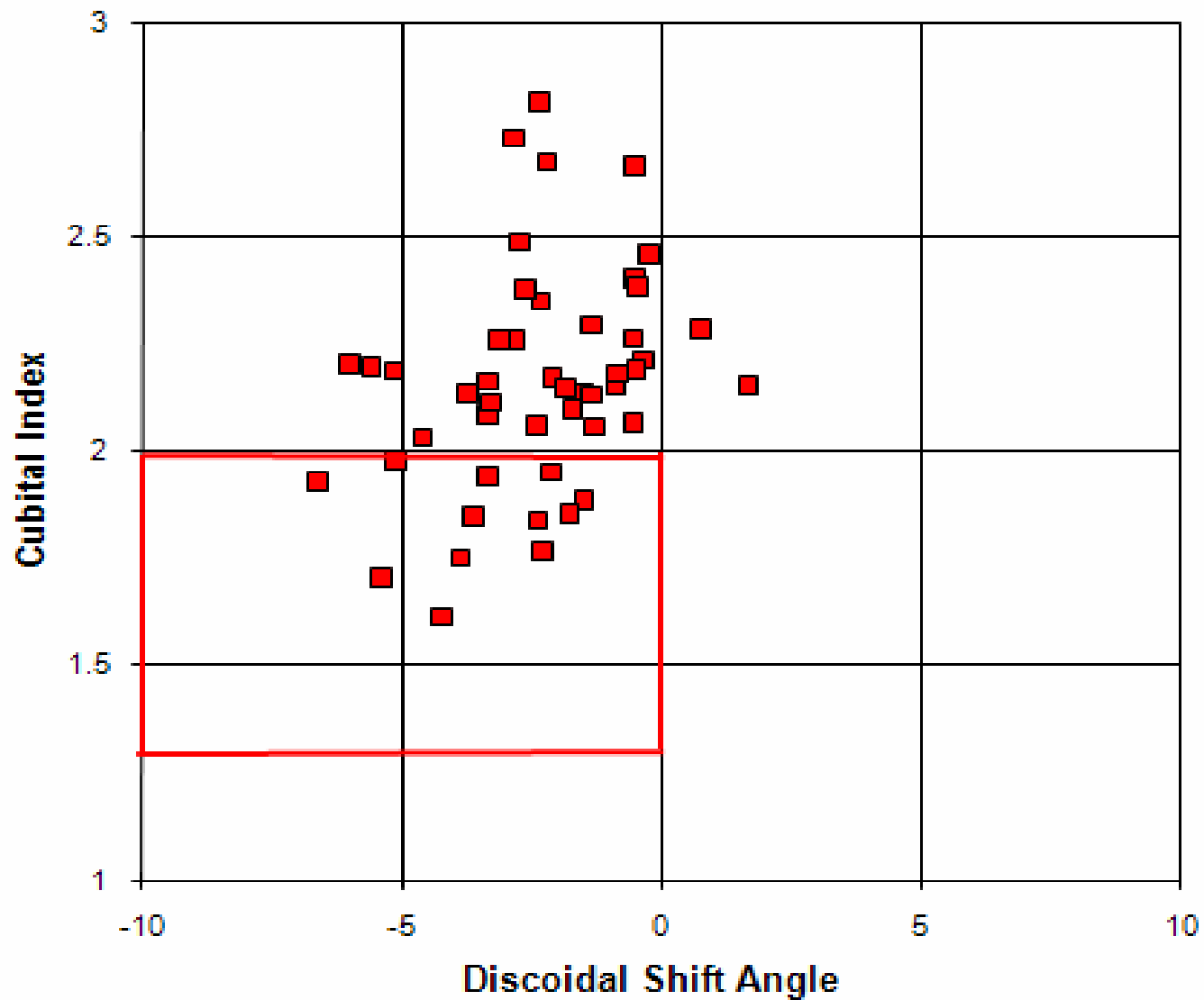
Peninsula bees

| Aplary site | No colonies | Owner |
|------------------|-------------|--------------------------|
| 1 Mambeg | 2 | David & Graham Greenwell |
| 2 Clynder | 2 | Dom Colella |
| 3 Rosneath | 4 | Jim McCulloch |
| 4 Culwatty bay | 7 | Becky Thorp |
| 5 Portkil | 6 | Ben Bellamy |
| 6 Old Kilcreggan | 1 | Jim Gilchrist |
| 7 Kilcreggan | 1 | Nick Davies |
| 8 Cove | 1 | Ann Dick |
| 9 Peaton | 3 | Duncan Reeves |
| 10 GARELOCHHEAD | 1 | JAMES BAYLER |
| 11 PEATON | 1 | JIM MCCULLOCH |
| 12 GLENARN | 6 | MIKE THORNLEY |



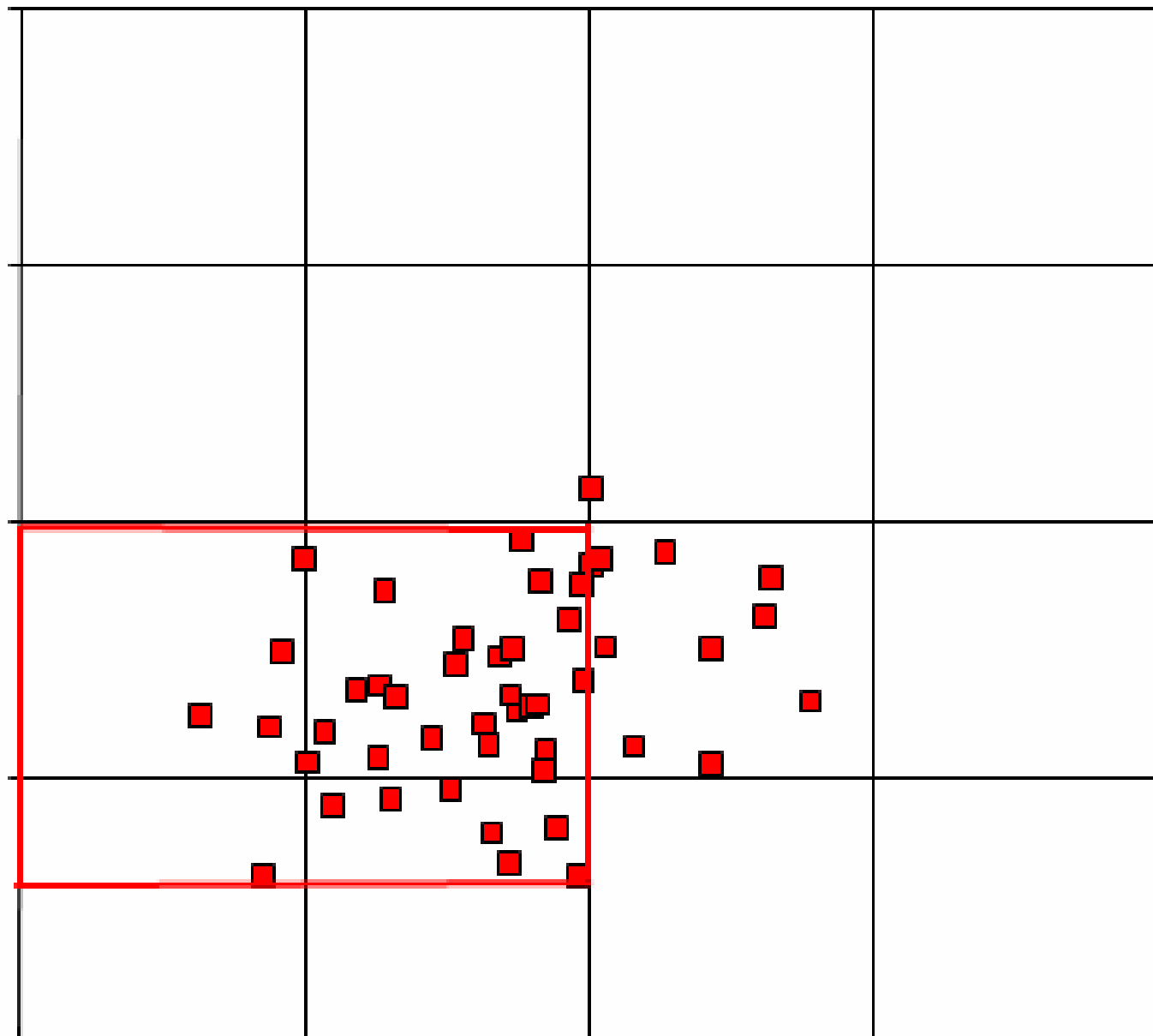
1 MILE
SCALE
1" : 1 MILE

Cubital Index v Discoidal Shift Angle





Cubital Index v Discoidal Shift Angle





Bee Breeding





Bee Breeding



Thank You

