AFRICAN TURF ACADEMY OVERVIEW

S.A. Turf Show 2019

Andrew McKenna

- Golf Performance Director African Turf Academy & Silver Lakes Golf Academy
- P.G.A member of U.K.
- P.G.A. European Tour Player
- Golf coach for 25 years

Derek Daly

AFRICAN TURF ACADEMY

- Director of Education African Turf Academy
- Greenkeeper Ireland, Sweden & Scotland
- R&A Scholar
- HND Golf Course Management, Currently Bsc (Hons) Sportsturf Science & Management

AFRICAN
TURF ACADEMY

AFRICAN
TURF ACADEMY

OPPORTUNITIES

Opportunities for overseas travel and work experience


SRUC
RAIN BIRD
JACOBSEN
AFRICAN
TURF ACADEMY
R&A
BERNHARD

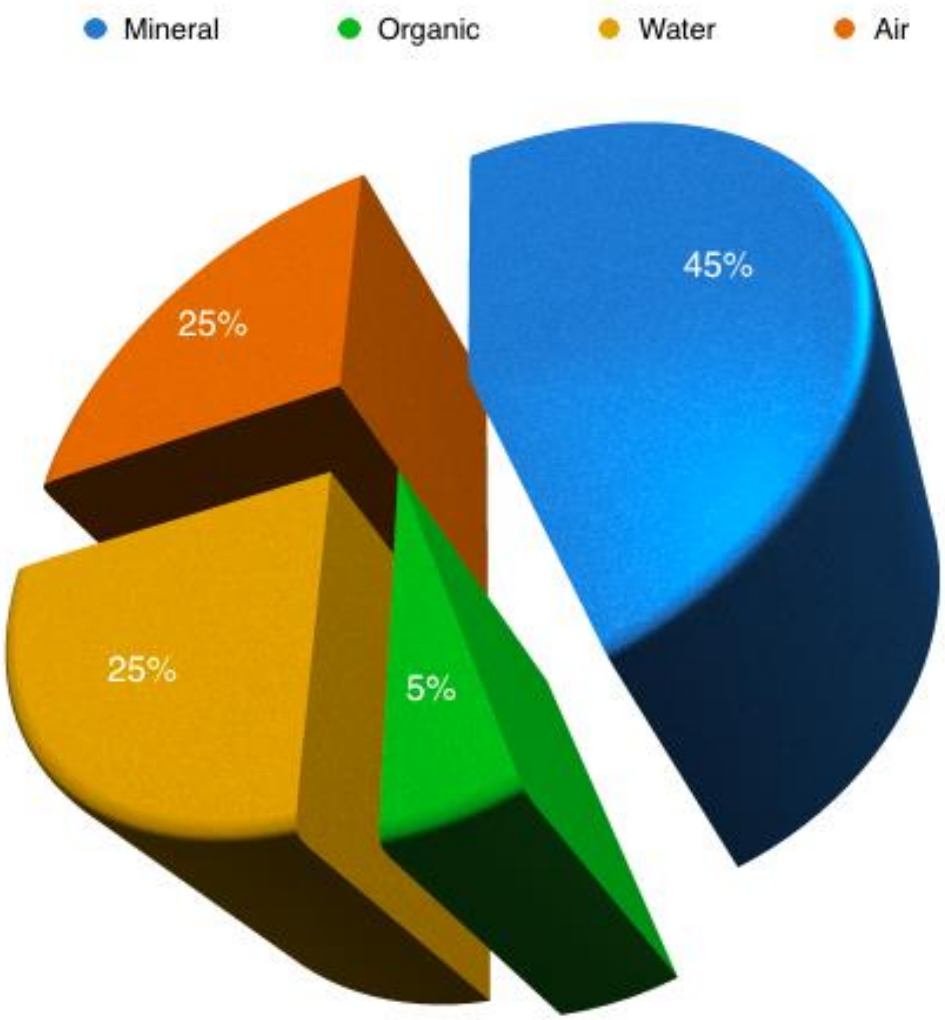
ORIGINS GOLF & DEVELOPMENT OF SPORTSTURF ROOTZONES

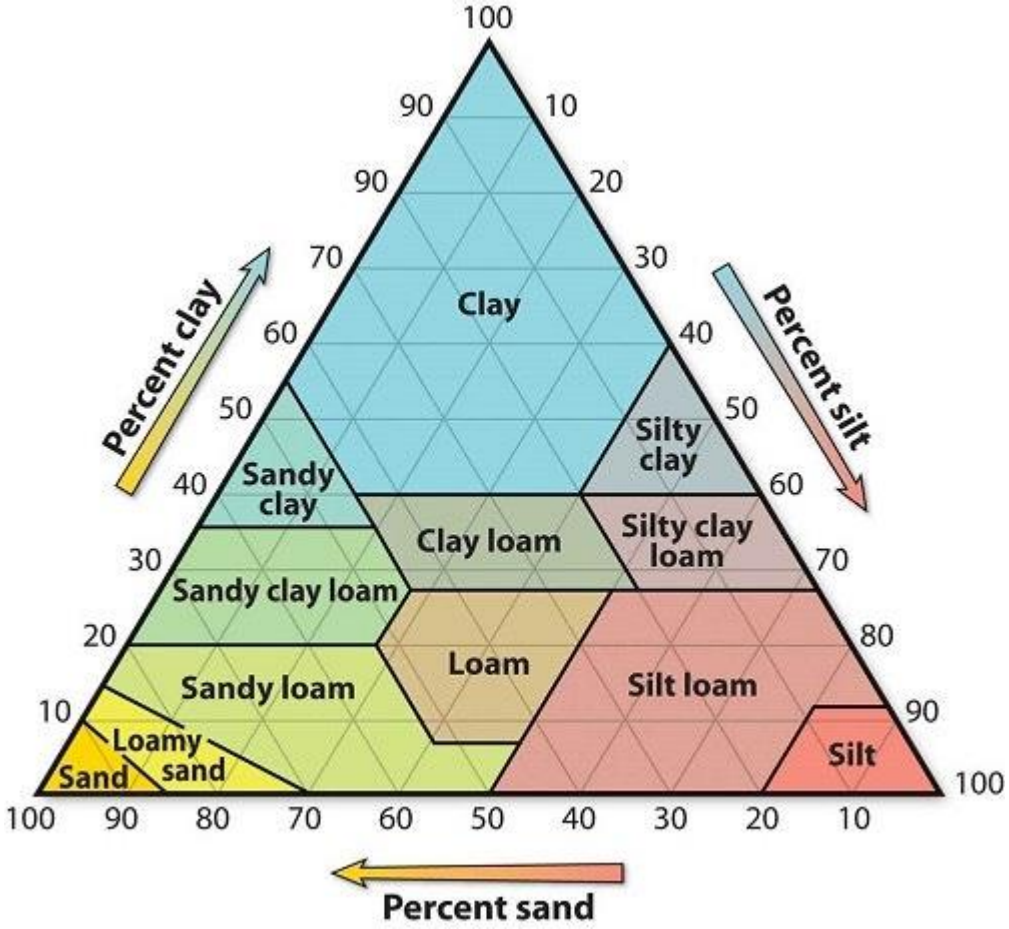
S.A. Turf Show 2019

ORIGINS OF GOLF

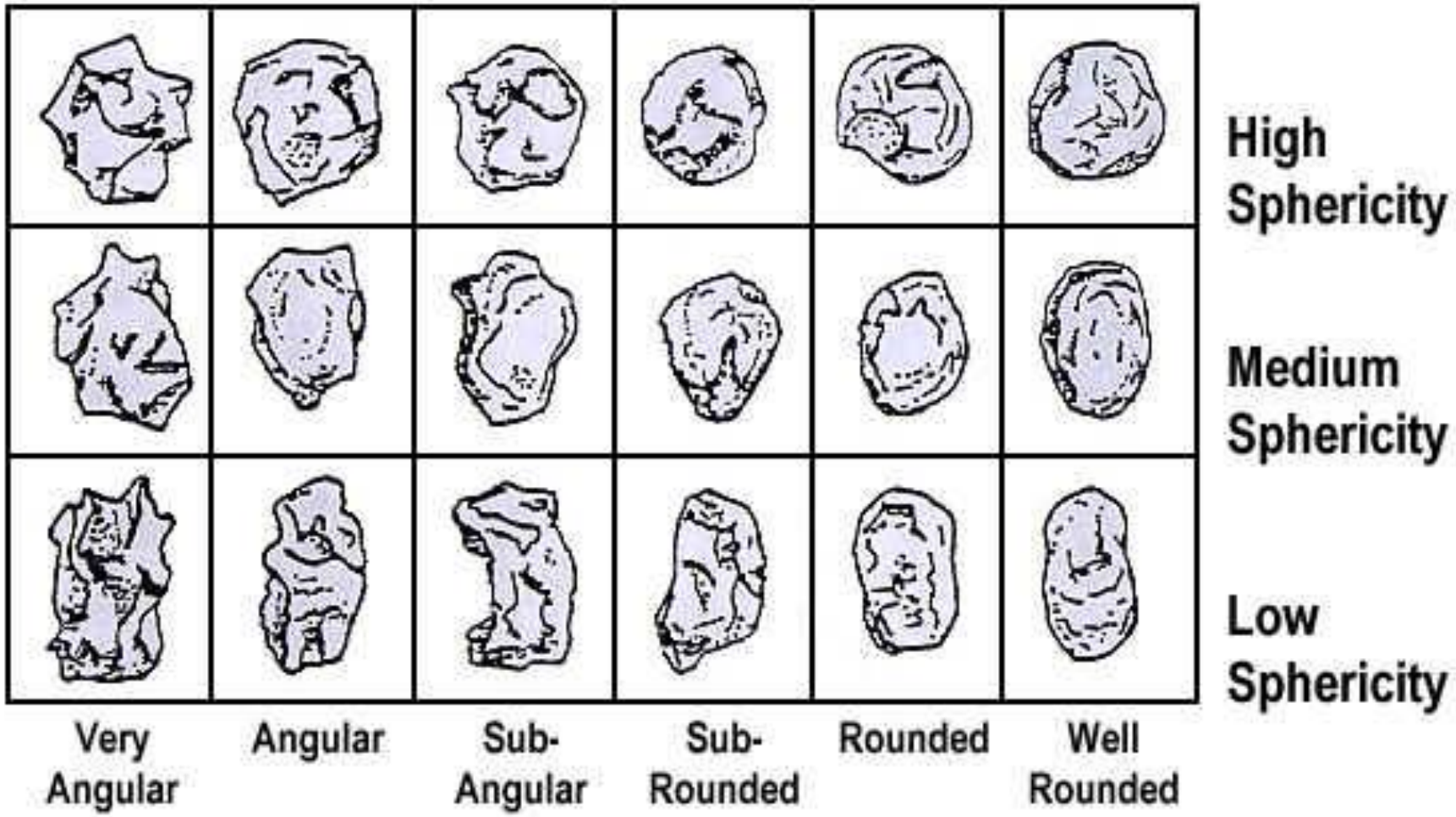
DEVELOPMENT OF GOLF & SPORTSTURF ROOTZONES

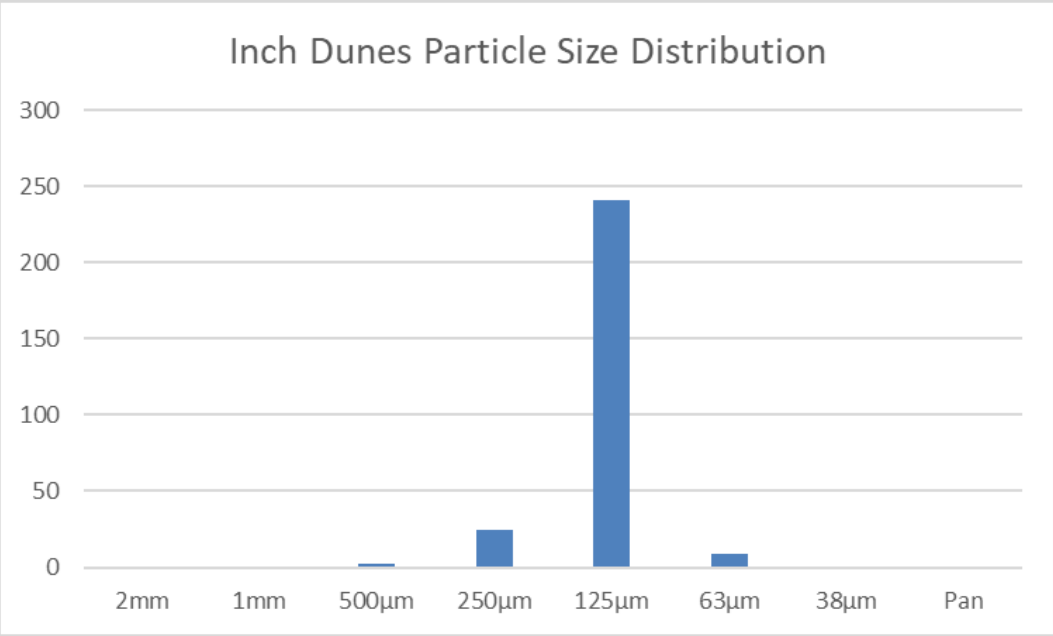
CLASSIFICATION


Mineral
Organic
Water
Air
45%
25%
25%
5%


100
90
10
90
20
70
30
60
40
50
50
40
60
30
70
20
80
10
90
100
Percent clay
Percent silt
Percent sand
Clay
Silty clay
Sandy clay
Clay loam
Silty clay loam
Sandy clay loam
Loam
Silt loam
Sandy loam
Loamy sand
Sand
Silt
100 90 80 70 60 50 40 30 20 10

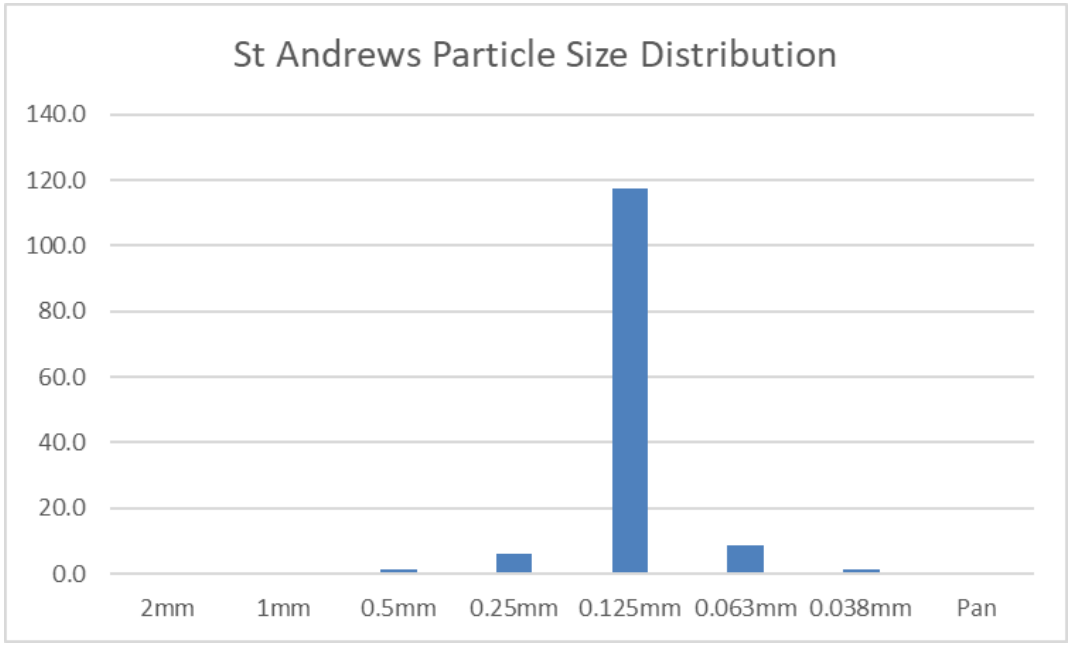
Description	Diameter mm	Recommendation
Fine gravel Very coarse sand	2.0 - 3.4 2.0 – 1.0	Not more than 10% of the total in this range and preferably no Fine gravel
Coarse sand Medium sand	1.0 - 0.5 0.5 - 0.25	At least 60% of the material must fall in this range
Fine sand	0.25 - 0.15	Not more than 20% fine sand
Very fine sand	0.15 - 0.05	No more than 10% for range. No more than 5%
Silt & Clay	<0.05	very fine sand, no more than 8% silt & clay


High Sphericity
Medium Sphericity
Low Sphericity
Very Angular
Angular
Sub-Angular
Sub-Rounded
Rounded
Well Rounded



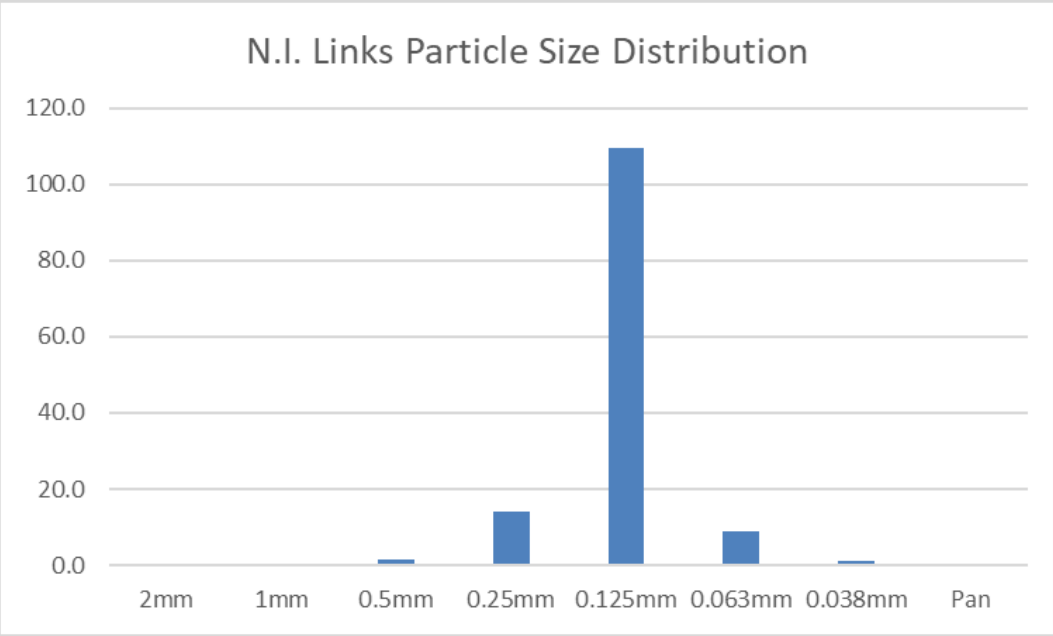
Inch Dunes Sand Sample			
Sieve Aperture	**weight (g)**	**%**	**passing**
2mm	0	0	100
1mm	0.2	0	100
500µm	2.5	1	99
250µm	24.4	9	91
125µm	241.1	87	3
63µm	8.5	3	0
38µm	0	0	0
Pan	0	0	0
	276.7		

INCH DUNES



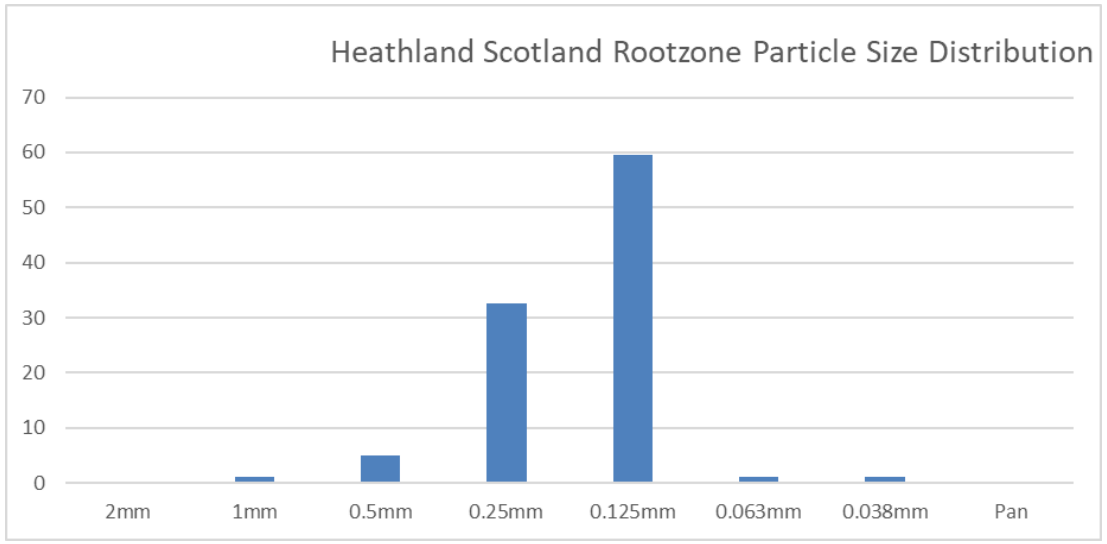
Sieve Aperture	Weight	% retained	% passing
2mm	0.2	0	100
1mm	0.5	0	100
0.5mm	1.4	1	99
0.25mm	6.0	5	95
0.125mm	117.4	90	8
0.063mm	8.8	7	1
0.038mm	1.3	1	0
Pan	0.4	0	0

ST ANDREWS



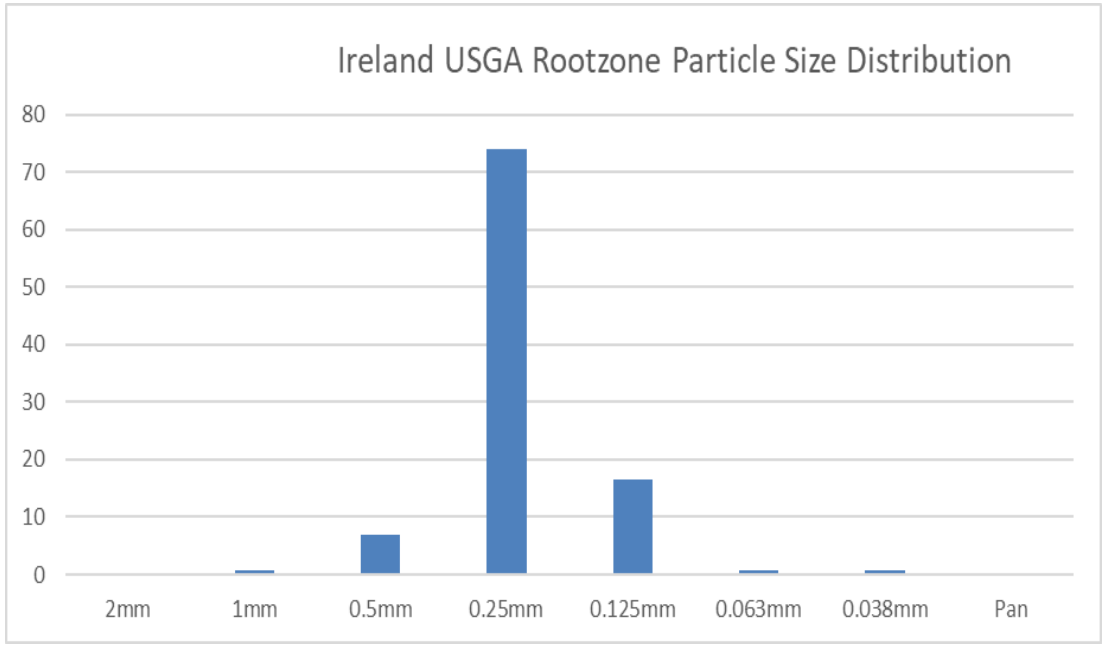
Sieve Aperture	Weight	% retained	% passing
2mm	0.2	0	100
1mm	0.5	0	100
0.5mm	1.4	1	99
0.25mm	14.0	11	95
0.125mm	109.4	84	8
0.063mm	8.8	7	1
0.038mm	1.3	1	0
Pan	0.4	0	0

N.I.LINKS



Heathland Scotland			
Sieve Aperature	Weight	% retained	% passing
2mm	0	0	100
1mm	1	1	99
0.5mm	5	5	94
0.25mm	32.5	32	62
0.125mm	59.5	59	3
0.063mm	1	1	2
0.038mm	1	1	0
Pan	0	0	0

HEATHLAND SCOTLAND



U.S.G.A. Green Ireland			
Sieve Aperture	Weight	% retained	% passing
2mm	0.3	0	100
1mm	0.7	0	100
0.5mm	7	7	93
0.25mm	74	74	19
0.125mm	16.5	16	3
0.063mm	0.7	1	2
0.038mm	0.8	1	1
Pan	0	0	0

U.S.G.A. GREEN IRELAND

STRI Firmness Scale		
Clegg Value	**Description of Firmness**	**Ideal**
Over 130	**Hard and unreceptive.** Ball impacts and continually bounces forward. No control from well-struck shots as hardness increases. Frustrating to all levels of golfer.	
100 – 130	**Very firm.** Ball impacts, bounces on, checks and then rolls out. Well-struck shots need to be positioned correctly. A true test of ball striking and accurate play.	Links
80 – 100	**Firm.** Ball impacts, bounces forward, checks and then quickly stops. Good control of well-struck shots but less control from loose ball striking (especially at the firmer end).	Parkland
70 – 80	**Receptive.** Ball impacts then stops on first bounce or spins backwards. No footprinting. No real premium for ball striking. Such surfaces are flattering to average play.	
60 – 70	**Soft.** Balls stop dead and leave a large pitch mark. Footprinting becomes evident to make putting surface uneven. Not a good surface.	
Below 60	**Very soft.** Unstable and unplayable.	

FUTURE


SRUC
RAIN BIRD
JACOBSEN
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TURF ACADEMY
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BERNHARD