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Collection of Plans for the Woburn Organic Manuring Experiment

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W/RN/12 - Woburn Organic Manuring 2015 - 2019

Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 2015 - 2019* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 57 - 66

Plan 203

51st year

Code: 2015/W/RN/12
Title: Organic Manuring
Field: Stackyard B

Sponsors:

A Macdonald
2479

K Goulding
2627

Treatments:

Organic Treatments since 2003

F None
Dg10 FYM at 10 t/ha annually
Dg25 FYM at 25 t/ha annually
St Chopped wheat straw at 7.5 t/ha annually
CC Cover crop (white mustard) prior to spring sown crop
Co Compost at 40 t/ha annually
Lc Permanent grass/clover: Timothy, Fescue & white clover sown
@ 30 kg/ha, 4-Oct-2002

Basal PKS/ha (to be applied early spring)

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25
Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25

No Nitrogen to W Beans for 2015.

Nitrogen rotation

N5>N4>N3>N2>N1>N0>N5

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

(Dg) FYM annually 1965-71, and 1981-85
(St) Straw annually 1965-71, and 1981-85
(Gm) Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Pt) Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4)
(Fd) PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Fs) KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Ln) Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Lc) Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

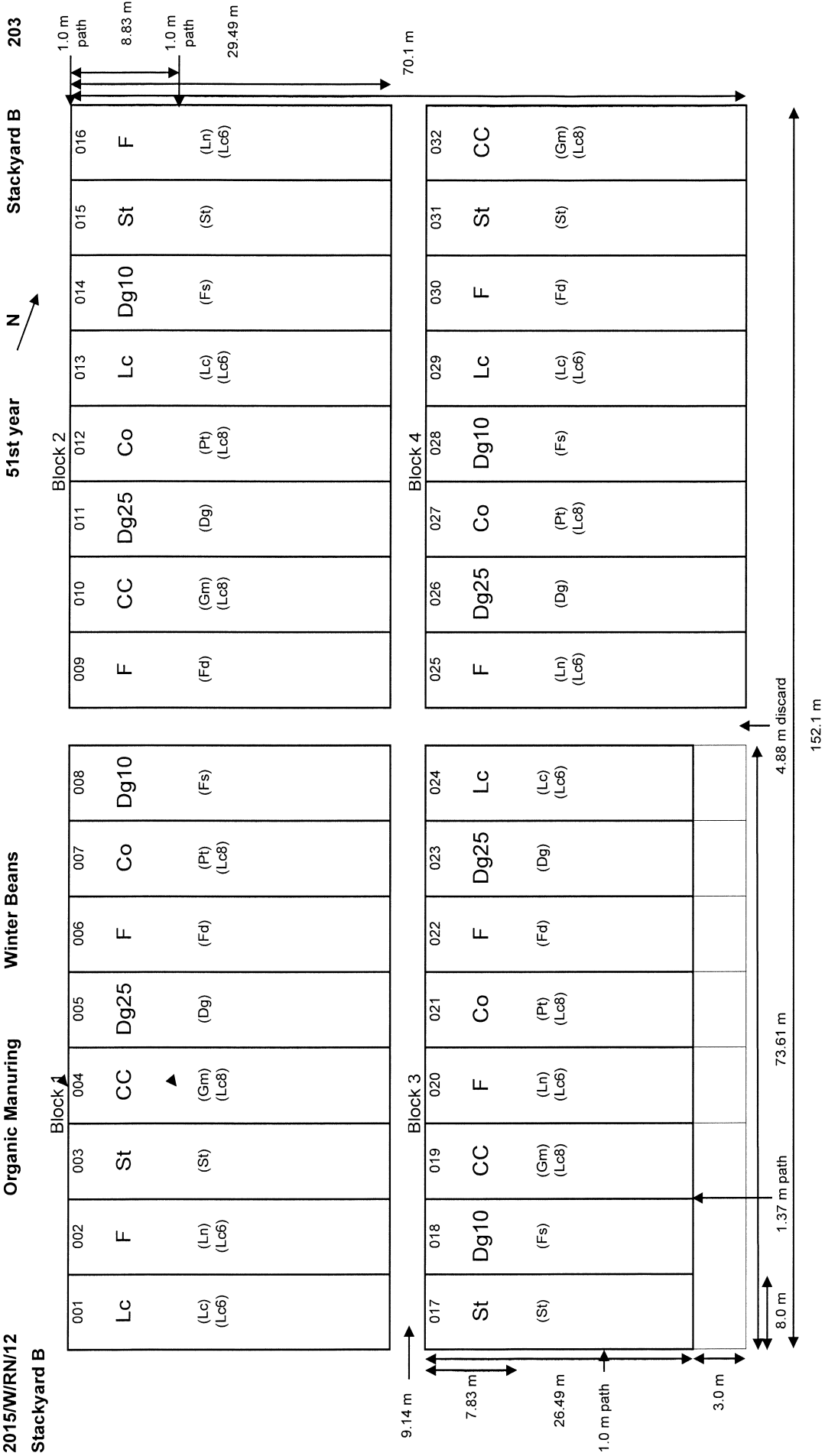
Crop rotation

2008 W. Rye
2009 S. Barley and Mustard
2010 W. Beans
2011 W. Wheat
2012 F Maize and Mustard
2013 W. Rye
2014 S. Barley and Mustard
2015 W. Beans

Variety

W Beans: Wizard

//Straw yields not required. Straw baled and removed
// From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter
// Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts



Plan 203

52nd year

Code: 2016/W/RN/12

Title: Organic Manuring

Field: Stackyard B

Sponsors:

A Macdonald
2479

K Goulding
2646

Treatments:

Organic Treatments since 2003

Basal PKS/ha (to be applied early spring)

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25

Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25

F None

Dg10 FYM at 10 t/ha annually

Dg25 FYM at 25 t/ha annually

St Chopped wheat straw at 7.5 t/ha annually

CC Cover crop (white mustard) prior to spring sown crop

Co Compost at 40 t/ha annually

Lc Permanent grass/clover: Timothy, Fescue & white clover sown
@ 30 kg/ha, 4-Oct-2002**Nitrogen to Winter Wheat for 2016, kg N/ha, N0-N5.**

0, 50, 100, 150, 200 and 250 as Nitrochalk @ 27%N

Nitrogen rotation

N5>N4>N3>N2>N1>N0>N5

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

(Dg) FYM annually 1965-71, and 1981-85

(St) Straw annually 1965-71, and 1981-85

(Gm) Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

(Pt) Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4)

(Fd) PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

(Fs) KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

(Ln) Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

(Lc) Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

Variety

W Wheat: Gallant

Crop rotation

2009 S. Barley and Mustard

2010 W. Beans

2011 W. Wheat

2012 F Maize and Mustard

2013 W. Rye

2014 S. Barley and Mustard

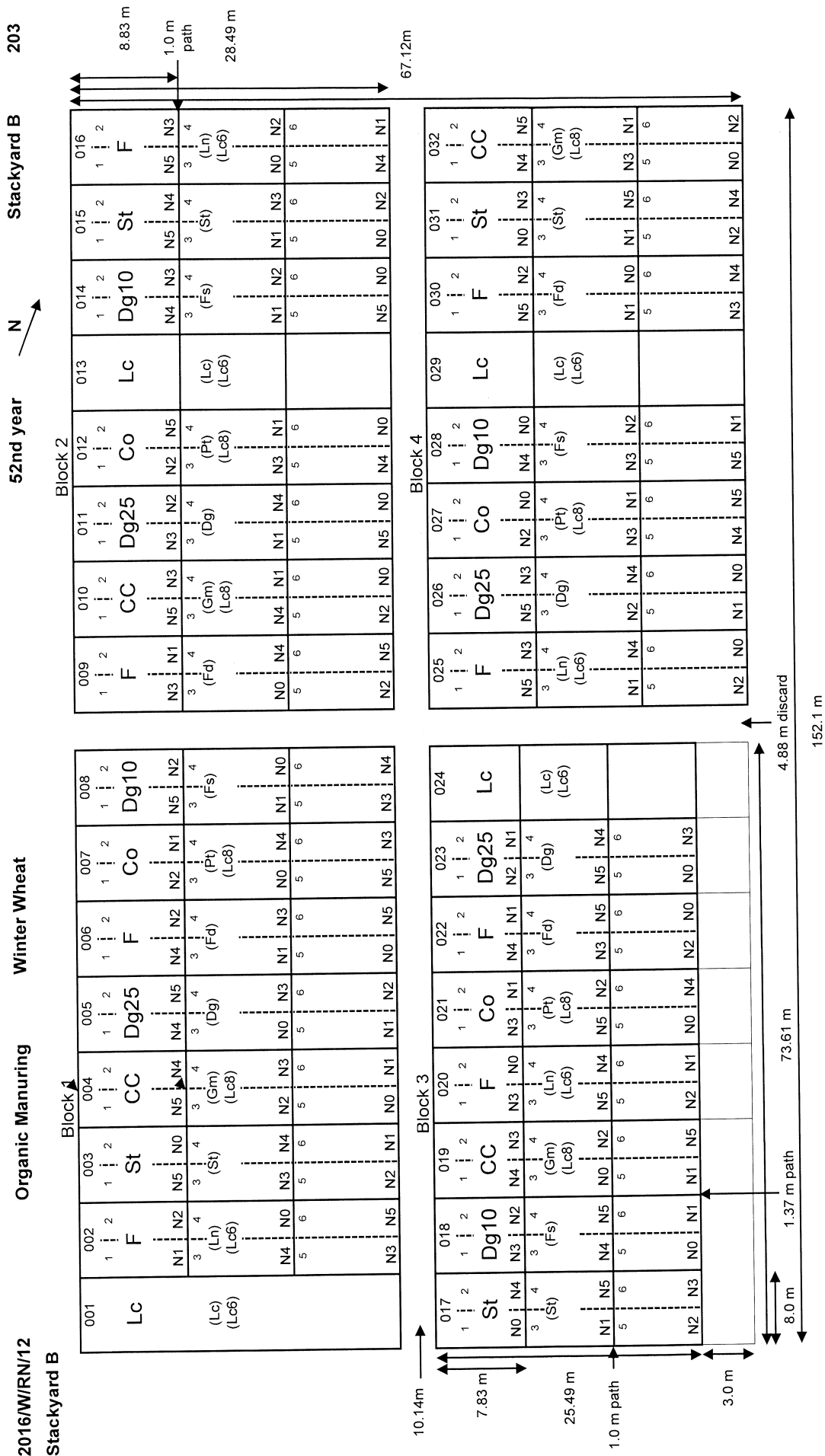
2015 W. Beans

2016 W. Wheat

//Straw yields not required. Straw baled and removed

// From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter

// Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts



Code: 2017/W/RN/12

Title: Organic Manuring

Field: Stackyard B

53rd year

Plan 203

Sponsors:

A Macdonald
2479

K Goulding
2646

Treatments:

Organic Treatments since 2003

Basal PKS/ha (to be applied early spring)
Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25
Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25

F None
Dg10 FYM at 10 t/ha annually
Dg25 FYM at 25 t/ha annually
St Chopped wheat straw at 7.5 t/ha annually
CC Cover crop (white mustard) prior to spring sown crop
Co Compost at 40 t/ha annually
Lc Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha. 4-Oct-2002

Nitrogen to F Maize for 2017, kg N/ha, N0-N5.
0, 50, 100, 150, 200 and 250 as **Nitrochalk @ 27%N**
Split 50 kg N to seedbed (except N0); remainder post emergent

Nitrogen rotation
N5>N4>N3>N2>N1>N0>N5

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

(Dg) FYM annually 1965-71, and 1981-85
(St) Straw annually 1965-71, and 1981-85
(Gm) Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Pt) Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4)
(Fd) PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Fs) PKMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Ln) Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
(Lc) Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

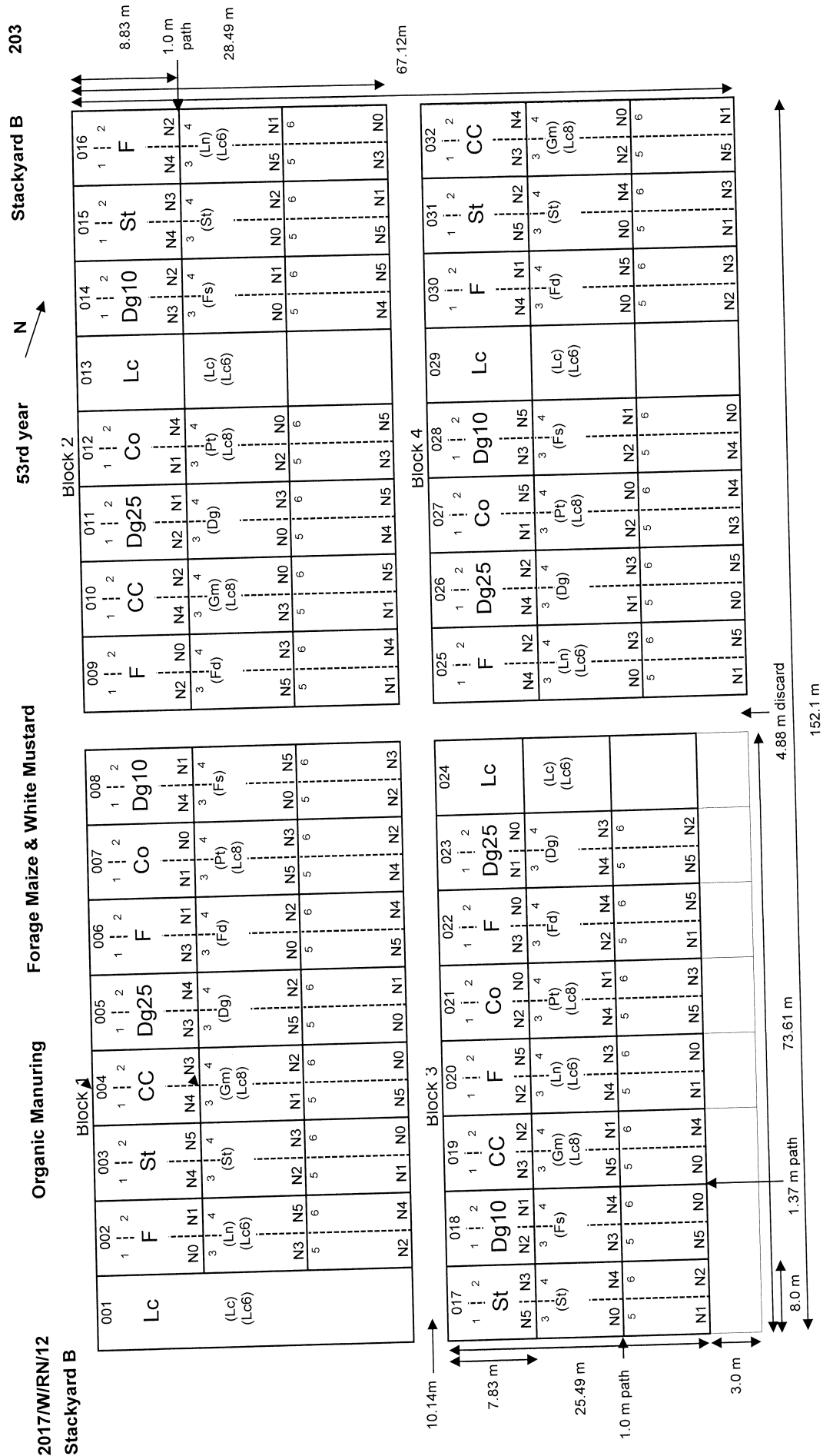
Variety

F Maize (var. Severus) and W Mustard (var. Zlata)

Crop rotation

2009 S. Barley and Mustard
2010 W. Beans
2011 W. Wheat
2012 F Maize and Mustard
2013 W. Rye
2014 S. Barley and Mustard
2015 W. Beans
2016 W. Wheat
2017 F Maize and Mustard

//Straw yields not required. Straw baled and removed
// From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter
// Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts



Code: 2018/W/RN/12

Title: Organic Manuring

Field: Stackyard B

54th year

Plan 203

Sponsors:A Macdonald
2479S McGrath
2631A Gregory
2482**Treatments:**

Organic Treatments since 2003

F None
 Dg10 FYM at 10 t/ha annually
 Dg25 FYM at 25 t/ha annually
 St Chopped wheat straw at 7.5 t/ha annually
 CC Cover crop (white mustard) prior to spring sown crop
 Co Compost at 40 t/ha annually
 Lc Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha, 4-Oct-2002

Basal PKS/ha (to be applied early spring)

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25

Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25**Liming:** Chalk to be applied to all plots every five years @ 5t/ha. Next due Spring 2022.**Nitrogen to W Rye for 2018, kg N/ha, N0-N5.**0, 30, 60, 90, 120 and 150 as **Nitrochalk @ 27%N**

Split 50 kg N to seedbed (except N0); remainder post emergent

Nitrogen rotation

N5>N4>N3>N2>N1>N0>N5

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

(Dg) FYM annually 1965-71, and 1981-85
 (St) Straw annually 1965-71, and 1981-85
 (Gm) Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Pt) Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4)
 (Fd) PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Fs) KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Ln) Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Lc) Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

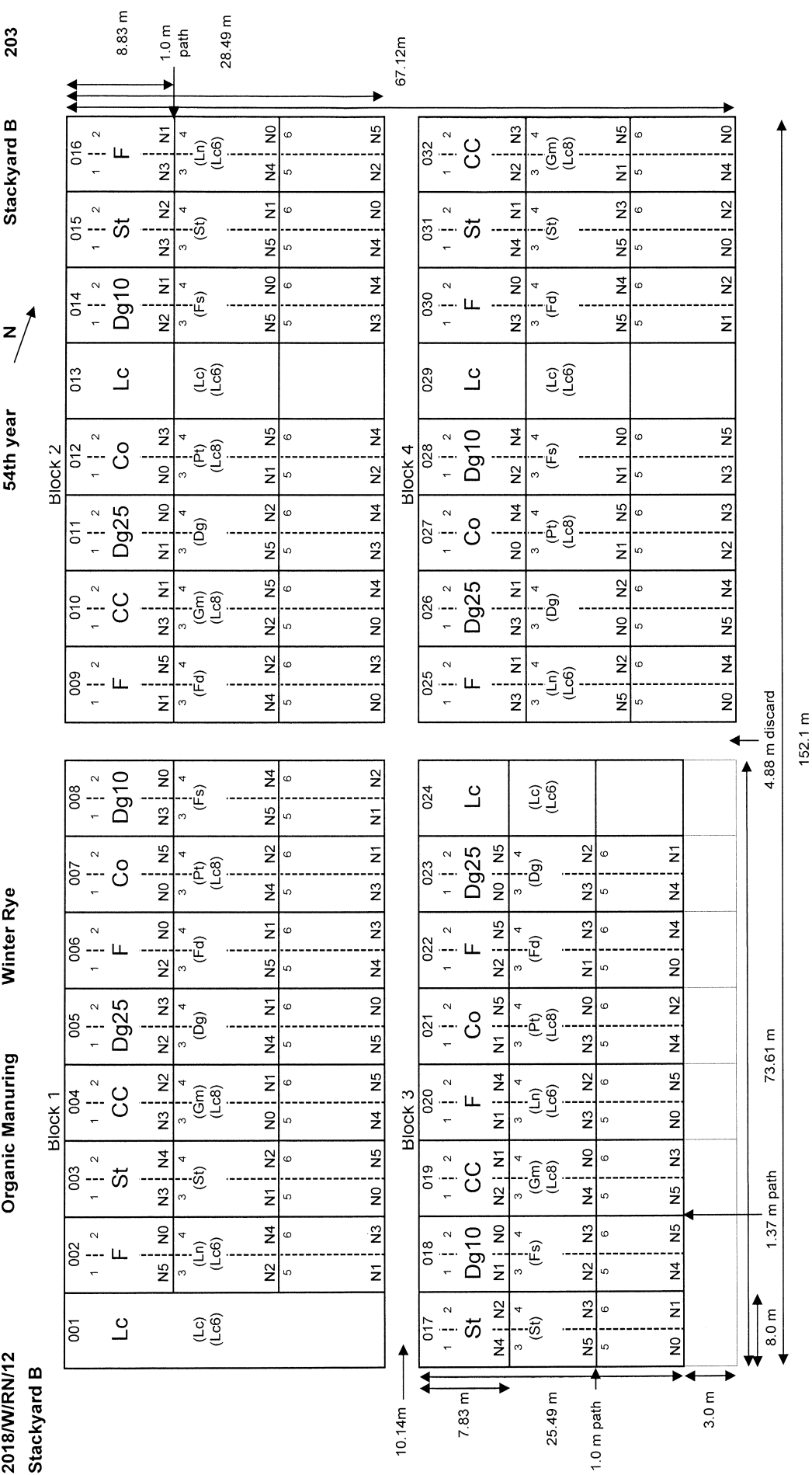
Variety

W Rye - Mephisto?

Crop rotation

2011 W.Wheat
 2012 F.Maize and Mustard
 2013 W. Rye
 2014 S. Barley and Mustard
 2015 W. Beans
 2016 W. Wheat
 2017 F.Maize and Mustard
 2018 W. Rye

//Straw yields not required. Straw baled and removed
 // From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter
 // Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts



55th year

Plan 203

Code: 2019/W/RN/12
 Title: Organic Manuring
 Field: Stackyard B

Sponsors:

A Macdonald 2479
 S McGrath 2631
 A Gregory 2482

Treatments:

Organic Treatments since 2003

F None
 Dg10 FYM at 10 t/ha annually
 Dg25 FYM at 25 t/ha annually
 St Chopped wheat straw at 7.5 t/ha annually
 CC Cover crop (white mustard) prior to spring sown crop
 Co Compost at 40 t/ha annually
 Lc Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha, 4-Oct-2002

Basal PKS/ha (to be applied early spring)

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25
 Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25
Liming: Chalk to be applied to all plots every five years @ 5t/ha. Next due Spring 2022.

Nitrogen to Spring Barley for 2019, kg N/ha, N0-N5.

0, 35, 70, 105, 140 and 175 as Nitrochalk @ 27%N

Nitrogen rotation

N5>N4>N3>N2>N1>N0>N5

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

(Dg) FYM annually 1965-71, and 1981-85
 (St) Straw annually 1965-71, and 1981-85
 (Gm) Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Pt) Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4)
 (Fd) PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Fs) KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Ln) Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 (Lc) Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

Crop rotation

2012 F Maize and Mustard
 2013 W. Rye
 2014 S. Barley and Mustard
 2015 W. Beans
 2016 W. Wheat
 2017 F Maize and Mustard
 2018 W. Rye
 2019 S. Barley and Mustard

Variety

S Barley - Irina

//Straw yields not required. Straw baled and removed
 // From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter
 // Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts

