



FORAGE FIRST®

BY DLF



5 SERIES™

CANADA PRODUCT GUIDE | 2025

Forage First® describes how we view the importance of our products when planted on your farm. We have you in mind when yield and quality matter in your farming operation; through our leading research program we provide a higher standard of forage to maximize return on investment. We take pride in delivering proven products that will exceed your expectation with high yields, solid agronomics, improved forage quality and fibre digestibility. Our promise to you is that we will continue leading the way by moving the alfalfa and forage industry to new heights. We will do our best to help you get more out of your alfalfa and forage crops.

ALWAYS INNOVATING

As a forage leader for many years, we've always worked hard to improve. Continual research and development of new varieties ensures the right balance of protein and feed quality, stress tolerance, persistence, disease and pest resistance to suit your operation. Every top-performing variety is tested in many trials before being advanced and available to you. From the latest genetics to new seed treatments and technologies, we have you covered.

MAXIMUM FLEXIBILITY

We provide a diverse selection of products for producing high quality forage for your dairy and livestock operation. Our versatile portfolio offers a variety of proven products to fit each unique operation and was created with flexibility and ease of management in mind.

FOCUSED ON YOU

When you choose Forage First, you benefit from dedicated technical experts and a sales team who focuses solely on alfalfa and forages. Our insight and experience across millions of acres, when combined with the knowledge you have of the specific conditions on your farm, will deliver the best seed solution for you. When it comes time to plant, you won't rely on speculation; you'll rely on proven expertise.

FORAGE FIRST + DLF: SEEDS & SCIENCE, DELIVERED

DLF is ready to welcome you to a new era in alfalfa following DLF's acquisition of the Corteva Agriscience™ alfalfa breeding program and related assets. DLF (Dansk Landbrugs Frøselskab) which translates to the "Danish Farmers Organization's Seed Supplier" was founded in 1872. DLF is owned by 3,000 growers specializing in growing and developing forage and turf seeds.

DLF is a global leader in the development of innovative forage products. DLF's Canadian business is headquartered in Lindsay, Ontario along with a large portion of DLF's North American research activities. DLF operates a customer - focused business across Canada which includes strategically placed seed production activities, manufacturing and distribution warehouses and support personnel.

Still the products you know and trust, now under Forage First, you are supported by a worldwide organization with a tremendous passion for innovation and commitment to helping deliver the absolute best forage products. As we move forward, our goal is to provide continuity to the alfalfa products you have been accustomed to sourcing along with all the other forage, cover crop, and other specialty seed products you may require.



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GROWING WITH DLF

Our customers demand a lot from their seed: yield, forage quality, winterhardiness and disease resistance. That is why we invest heavily in global R&D and our field trials. Roughly 11% (1 in 9) of DLF's over 2,000 worldwide employees are involved in breeding programs and product development. For more than 30 years, DLF breeding and product development has optimized forage grass and legume varieties ideal to local climatic and environmental conditions to seed the green future. We aim to deliver sustainable solutions with the potential to increase productivity of land and livestock, sequester carbon and reduce emissions in the supply chain.

Connell, Washington USA



Port Hope, Ontario Canada



West Salem, Wisconsin USA



Philomath, Oregon USA



Berry, Kentucky USA



THE WORLD OF DLF



TESTING

- DLF head-to-head comparisons test current products against competitor check and experimental varieties
- This rigorous testing gives an ability to identify varieties with superior yield, persistence, faster regrowth, exceptional forage quality and superior disease resistance

DLF's Research trials provide the ability to select varieties that have improved disease resistance, superior yield, improved winterhardiness, faster regrowth and high forage quality based on true head to head comparisons!

DLF is the proven leader in developing forage grass and clover varieties that are adapted to diverse climatic and soil conditions. Our intensive breeding program is constantly developing new varieties of grass and clover species that will out-perform older generation genetics in yield, palatability, and forage quality.



World market leader **within temperate forage and turf seeds**. Supplying to more than 100 countries.



Leading research and development program in sustainable and green crops of the future



7th largest seed company in the world

54Q16

Cutting System: 3 - 5

- 54Q16 delivers high forage quality coupled with very good yield potential.
- Excellent disease and pest resistance to enhance stand establishment and stand persistence.
- Fall Dormancy 4 product with very good winterhardiness.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	HR
Fusarium Wilt	HR		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	35/35

54Q29

Cutting System: 3 - 5

- Excellent fall dormancy 4 variety with high yield potential and excellent forage quality.
- Multi-race Aphanomyces resistance (Aph2 = R) allows for establishing in challenging environments.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	R
Anthracnose	HR	Pea Aphid	HR
Bacterial Wilt	HR	Spotted Alfalfa Aphid	R
Fusarium Wilt	R	Stem Nematode	HR

Fall Dormancy	4.0
Winter Survival	1.8
Total DRI	33/35

54VQ52

Cutting System: 3 - 5

- Excellent choice for high forage quality with high yield potential
- Strong disease resistance for broad adaptation to most growing environments.
- 54VQ52 has Phytophthora and multi-race Aphanomyces resistance for improved establishment success in poorly drained soils.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Spotted Alfalfa Aphid	R
Fusarium Wilt	R	Stem Nematode	HR

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	34/35

54H98 BRAND

Cutting System: 3 - 5

NEW

- Fall Dormancy 4 product with improved yield
- This potato leafhopper variety combines an excellent disease package with high productivity under moderate to high leafhopper pressure.
- 54H98 has an excellent disease package allowing for successful establishment in a wide range of soils.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Potato Leafhopper	HR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Blue Aphid	HR
Fusarium Wilt	HR	Spotted Alfalfa Aphid	HR

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	30/30



54VQ56

Cutting System: 3 - 5

NEW

- Excellent fall dormancy 4 variety with enhanced seeding year yield and provides improved yield potential over the life of the alfalfa stand.
- Very strong disease and pest resistance allows for broad adaptation.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthrachnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	MR
Fusarium Wilt	HR		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	35/35

54B66 BRAND

Cutting System: 3 - 5

- A premium blend of winterhardy genetics that work well in many alfalfa growing environments.
- Resistant to most common alfalfa diseases (DRI>30), helping to provide yield protection in all but the most extreme environments.
- Seed has fungicide and inoculants to ensure emergence and seedling growth at establishment.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	R
Verticillium Wilt	R	Aphanomyces Race 2	MR
Anthrachnose	HR	Pea Aphid	R
Bacterial Wilt	HR		
Fusarium Wilt	R		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	32/35

5S 5 SERIES™ Comparison

<div><div><div>5s</div><div>5 SERIES™</div></div><div>Comparison</div></div>					DISEASE & PEST CONTROL														
					FALL DORMANCY	WINTER SURVIVAL	TOTAL DRI	CUTTING SYSTEM	PHYTOPHTHORA ROOT ROT	VERTICILLIUM WILT	ANTHRACNOSE	BACTERIAL WILT	FUSARIUM WILT	APHANOMYCES RACE 1	APHANOMYCES RACE 2	PEA APHID	BLUE APHID	SPOTTED ALFALFA PHID	POTATO LEAFHOPPER
54Q16					4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	R	◦	◦	◦	HR	◦
54Q29					4.0	1.8	33/35	3 - 5	HR	HR	HR	HR	R	HR	◦	R	◦	HR	◦
54VQ52					4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	R	HR	HR	R	◦	HR	◦
54VQ56	NEW				4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	R	◦	◦	◦	MR	◦
54H98 BRAND	NEW	✓			4.0	2.0	30/30	3 - 5	HR	HR	HR	HR	HR	◦	R	HR	HR	HR	◦
54B66 BRAND					4.0	2.0	32/35	3 - 5	HR	R	HR	HR	R	R	◦	◦	◦	◦	◦

RESISTANCE RATINGS:

HR = Highly Resistant, 51% or more resistant plants

MR = Moderately Resistant, 15 - 30% resistant plants

S = Susceptible, 0 - 5% resistant plants

R = Resistant, 31 - 50% resistant plants

LR = Low Resistance, 6 - 14% resistant plants

◦ = Not Rated/Not Tested

Forage First® 5 Series Alfalfa Mixes

FF 54Q16 MIXES

FF 54Q16-N303



90% 54Q16 Alfalfa
10% Richmond Timothy

FF 54Q16-N302



80% 54Q16 Alfalfa
20% Richmond Timothy

FF 54Q16-N301



60% 54Q16 Alfalfa
40% Richmond Timothy

FF 54VQ52 MIXES

FF 54VQ52-N304



90% 54VQ52 Alfalfa
6% Richmond Timothy
4% Echelon Orchardgrass

FF 54VQ52-N303



90% 54VQ52 Alfalfa
10% Richmond Timothy

FF 54VQ52-N302



80% 54VQ52 Alfalfa
20% Richmond Timothy

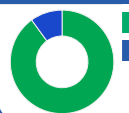
FF 54VQ52-N301



60% 54VQ52 Alfalfa
40% Richmond Timothy

FF 54Q29 MIXES

FF 54Q29-N303



90% 54Q29 Alfalfa
10% Richmond Timothy

FF 54Q29-N302



80% 54Q29 Alfalfa
20% Richmond Timothy

FF 54Q29-N301



60% 54Q29 Alfalfa
40% Richmond Timothy

FF 54VQ56 MIX

FF 54VQ56-N303



90% 54VQ56 Alfalfa
10% Richmond Timothy

FF 54B66 MIXES

FF 54B66-N303



90% 54B66 Alfalfa
10% Top Tim XL Timothy

FF 54B66-N301



60% 54B66 Alfalfa
40% Top Tim XL Timothy

Featured Forage First® Clover & Grasses

RENEGADE

Red Clover



- Multi cut, diploid variety with very good forage yield
- Improved disease & insect resistance

- Excellent winterhardiness
- Early flowering

ECHELON

Orchardgrass



- Late maturity
- Very good forage yield
- Excellent winterhardiness

- Very good disease resistance
- Very good seasonal growth pattern

RICHMOND

Timothy



- Early maturity
- Excellent winterhardiness
- Very good forage yield

- Very good forage quality
- Very good spring vigour

TOWER

Tall Fescue



- Late maturity
- Soft leaf provides very good forage quality
- Endophyte free

- Excellent disease resistance
- Very good stress tolerance

LAURA

Meadow Fescue



- Excellent forage quality
- Excellent grazing tolerance
- Endophyte free

- Very good winterhardiness
- Very good spring growth

FLEET

Meadow Brome



- Excellent forage yield
- Excellent winterhardiness
- Early spring growth

- Good forage quality
- Good seasonal growth pattern

MAHULENA

Festulolium (Fescue Type)



- Tall Fescue x Perennial Ryegrass
- Late maturity & excellent forage yield
- Very good forage quality

- Endophyte free
- Very good stress tolerance and winterhardiness



DLF PROVIDES A FULL RANGE OF PRODUCTS TO MEET YOUR NEEDS:



- Forage grasses
- Forage legumes
- Forage mixes
- Seed inoculants
- Conservation seed/mixes
- Small grains
- Custom forage mixes



- Turf seed
- Turf mixes
- Custom turf mixes
- Conservation mixes
- Erosion control

SUMMER ANNUALS

- Sorghum x Sudan
- Sudangrass
- Forage Sorghum
- Millets
- Teffgrass



COVER CROPS

- Cover crop seed
- Cover crop mixes
- Custom cover crop mixes
- Seed inoculants

NATIVES & WILDFLOWERS

- Native grasses
- Conservation seed mixes
- Wildflowers/forbs
- Custom conservation, reclamation and pollinator seed mixes

WILDLIFE

- Food plot seed
- Food plot mixes
- Custom wildlife mixes

CUSTOM SEED MIXING

DLF offers custom mixing capabilities to meet any need. Contact us at info@dlfna.com or visit our website to learn more.

SEED OPTIONS

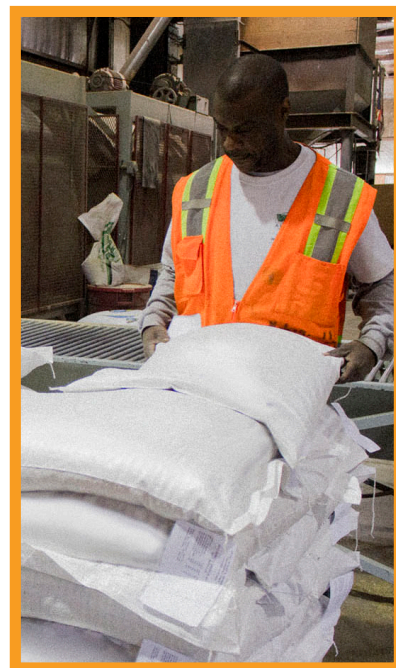
DLF offers a vast portfolio of seed designed for many conservation applications such as:

- **Conservation cover**
- **Pollinator habitat**
- **Reclamation applications**

CONSIDERATIONS WHEN

CREATING CUSTOM SEED MIXES:

- Think about seed sizes – will the different size and shape of certain seeds prohibit specific application methods?
 - » *Aerial*: too large of seed might struggle to get adequate seed-to-soil contact
 - » *Drilling or Ground Seeding*: seed size usually affects seeding depth. Different seeding depths become a real challenge with numerous species all in the same bag
- Different seeds often perform best when planted at different times
- Not all crops are beneficial to the next crop in the rotation
- Select species carefully, making sure all species are adapted to the field's soil, drainage and crop rotation





ONTARIO/ATLANTIC PROVINCES

1 Greenfield Road, Box 304, Lindsay, ON K9V 4S3
P (705) 878-9240 1-800-661-GROW (4769)

QUÉBEC

4155 rue Lesage, St-Hyacinthe, QC J2T 5K1
P (450) 799-4586 1-800-567-7425
F (450) 799-1026

MANITOBA

Box 4, Group 200, RR#2
1884 Brookside Blvd., Winnipeg, MB R3C 2E6
P (204) 633-0088 1-800-263-7425
F (204) 694-1690

SASKATCHEWAN

1920 Highway 35 S, Airport Road W, PO Box 100, Nipawin SK S0E 1E0
P (306) 862-9819 F (306) 862-2480

ALBERTA

11239 186 St. NW, Edmonton, AB T5S 2T7
P (780) 464-0350 1-800-265-3925
F (780) 464-0305

BRITISH COLUMBIA

Box 2407, 2156 Mile 2, Alaska Hwy, Dawson Creek, BC V1G 4T9
P (250) 782-3040
F (250) 782-2252