



COVER CROP GUIDE



COVER365™

COVER CROPS: A 3-STEP PLAN

1. SELECTION

- Choose fields that can have Cover Crops long term
- Select Cover Crop blend that best fits your needs
- Utilize quality seed

2. ESTABLISHMENT

- Choose a planting establishment option that fits your crop plan
 - Aerial, broadcast, and drill are common methods
- Seed to soil contact results in the best establishment

3. TERMINATION OPTIONS

- Utilize winter kill mixes
- Terminate Cover Crops two weeks prior to planting cash crops
 - Terminate Cover Crops after planting cash crops



PROHARVEST

SEEDS®

ProHarvest Seeds is your source for cutting edge cover crop needs.

As growers, we know that we cannot control weather or prices. However, we can be proactive with a cover crop plan. Over time, a well-developed strategy can erase the stubborn yield limitations of our land. In combination with new seed genetics and technology innovations, cover crop usage will begin to break through that yield barrier.

ProHarvest Seeds is an independent seed company focused on providing world class seed to farmers. We offer a full spectrum of products, utilizing the best combination of genetics, traits and treatments to optimize your successful harvest. ProHarvest Seeds, home office in Ashkum Illinois, is one of the fastest growing independent seed companies in the US.

What started as a locally-focused company has now expanded throughout the Midwest. ProHarvest now has over 120 dealers and Regional Owners in 9 states, from Ohio to North Dakota. A sales team of Seed Specialists, combined with Regional Owners has fueled this expansion, while maintaining local and personalized service.



Description:

reSTORE brand winter rye is the highest quality rye in the industry. reSTORE is carefully screened and processed through a gravity table to provide dependable results in cover cropping situations.

This high quality brand of winter rye will excel in germination, purity, and cleanliness. Winter rye is an excellent choice for erosion control, winter hardiness, forage yield, and weed suppression.

- **Scavenges Nutrients**
- **Excellent for Weed Suppression**
- **Improves Soil Health**
- **Prevents Erosion**
- **Enhances Soil Tilth**



Management

- **Plant August to October**
- **Seeding depth 3/4" to 1" depending upon soil moisture**
- **Seeds/lb. is 16,000 to 18,000**

- **Ergot free**
- **90%+ germ**
- **99.5% purity**

Recommended Seeding Rates

Seeding Method	Pounds per Acre
Drilling	45-84 lbs.
Broadcast	75 - 112 lbs.
Precision Planting	35 lbs.



Description:

reCLAIM is a late maturing cover crop radish with a deep root system making it a great choice for scavenging nutrients. This radish grows deep into the soil profile, 30 inches or more, allowing it to “reCLAIM” nitrogen and other leached nutrients back into the root zone. The radish then decomposes and releases these nutrients making them readily available for the next cash crop.

- **Scavenges Nutrients**
- **Improves Soil Health**
- **Relieves Compaction**
- **Suppresses Weeds**
- **Enhances Soil Tilth**



Management

- **Plant 4 to 10 weeks prior to the first killing frost**
- **reCLAIM winter kills after 3 nights of temperatures in the mid-teens**
- **Use full rate of Glyphosate with 1 pint of 2-4D to terminate any radishes that may survive the winter.**

A deep root system even with a medium girth sized tuber.

Recommended Seeding Rates

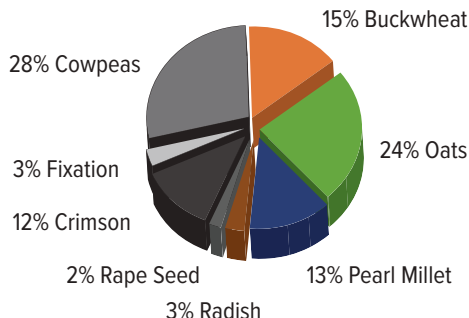
Seeding Method	Pounds per Acre
Drilling	6 -8 lbs.
Broadcast	10 lbs.
Precision Planting	4 lbs.



AwakeN Blend

8-way Blend/Grasses/Legumes/Brassica's

- **Excellent summer mix with a lot of Bio-diversity**
- **Establishes quickly to minimize fall erosion**
- **Winter-kills easily**
- **Scavenges nutrients well**



Description:

This 8-way blend is designed for improving soil health. The combination of multiple grasses, legume's and brasica's will "AwakeN" the soil biology. The very diverse blend will help to improve mineralization, soil structure and active organic matter. It is primarily designed for taking advantage of soils that are fallow from June through August. This can also provide an excellent livestock feed



Management	
Overall Management Level	High
Over Wintering Ability	Low
Seeding into Corn	Not Recommended
Seeding into Soybeans	Not Recommended
Seeding before Corn	Highly Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Excellent
Spring Forage	NA

Recommended Seeding Rates		
Seeding Method	Pounds per Acre	
	General	Forage
Drilling	35 lbs.	40 lbs.
Broadcast	50 lbs.	50 lbs.
Aerial	NA	NA
Precision Planting	25 lbs.	30 lbs.

Termination
The majority of the species in this blend will winter kill. Use full rates of glyphosate for termination with one pint of 2,4-D type of herbicide to terminate the crimson clover, balansa clover, and brassica's that may have over wintered.



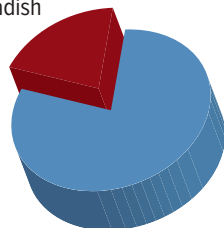


SECURE Blend

Annual Ryegrass/Radish

- **Excellent in decreasing soil compaction**
- **Improves soil structure and permeability**
- **Scavenges N both fall and spring**
- **Includes a winter hardy annual ryegrass variety**

20% Radish



80% Annual Ryegrass

Description:

Secure is a blend of Centurion annual ryegrass and reCLAIM radish. This blend will break up compaction with both the deep taproot of a radish and the fibrous root system of annual ryegrass. Secure scavenges nitrogen and other nutrients from the next cash crop. Additionally, Secure does an excellent job with weed suppression and increasing soil health.



Management	
Overall Management Level	High
Over Wintering Ability	Medium
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Recommended
Seeding before Corn	Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Good

Recommended Seeding Rates		
Seeding Method	Pounds per Acre	
	General	Forage
Drilling	15 lbs.	25 lbs.
Broadcast	18 lbs.	35 lbs.
Aerial	18 lbs.	35 lbs.
Precision Planting	12 lbs.	20 lbs.

Termination
reCLAIM radish dies around 15 degrees. Burndown annual ryegrass with one quart of glyphosate. Best control is achieved by spraying on a warm day between 9 a.m. and 2 p.m. with water adjusted to 5.5 pH or lower. If radishes do not winter kill, add one pint of 2,4-D type of herbicide.

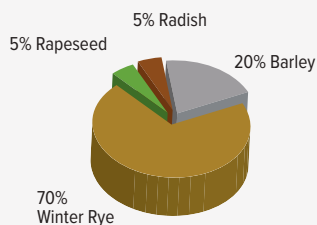


Bonus Blend	35	45	E	E	E
Land & Livestock Blend	50	70	E	E	E
N-Fix Blend	13	17	F	VG	G
Quick Cover Blend	30	35	G	VG	VG
Secure Blend	15	18	E	VG	E
AwakeN Blend	30	N/A	E	E	E
Brassica Mix	5	10	F	VG	F
reCLAIM Radish	8	10	F	VG	P
Centurion Annual Ryegrass	15	20	E	VG	E
reSTORE Winter Rye	56	75	E	E	E
Winter Barley	50	75	VG	E	VG
Oats	50	70	G	VG	F
Crimson Clover	15	20	G	VG	F
Winter Wheat	50	75	G	VG	VG

EX = EXCELLENT - VG = VERY GOOD - G = GOOD - F = FAIR - P = POOR

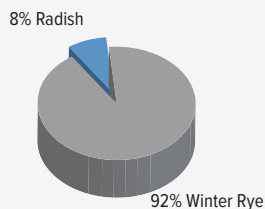
BONUS BLEND

– Winter Rye, Barley, Radish, Rape –



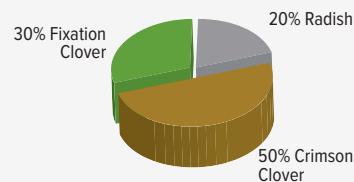
LAND & LIVESTOCK

– Winter Rye, Radish –



N - FIX

– Crimson & Fixation Clover & Radish –

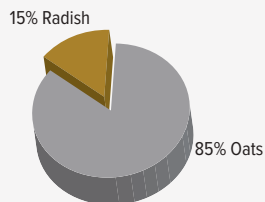


ING CHART

	E	E	E	E	MEDIUM
	E	E	E	E	MEDIUM
	E	VG	VG	F	MEDIUM
	E	E	E	G	LOW
	E	E	E	E	HIGH
	E	E	E	VG	HIGH
	E	VG	VG	P	LOW
	E	E	VG	P	LOW
	E	E	E	E	HIGH
	E	G	E	E	HIGH
	VG	G	E	VG	MEDIUM
	G	P	F	P	LOW
	VG	P	F	P	MEDIUM
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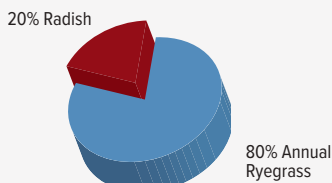
QUICK COVER B L E N D

– Oats, Radish –



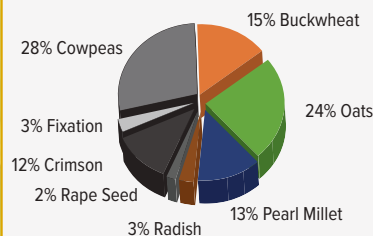
SECURE B L E N D

– Annual Ryegrass, Radish –



AWAKEN B L E N D

– 8-way Blend, Grasses, Legumes, Brassica's –

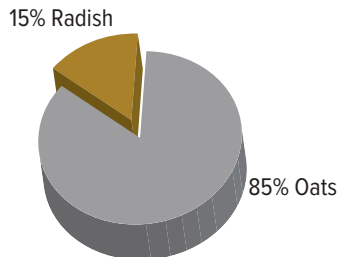




- **Easy, effective blend for low management**
- **Establishes quickly to minimize fall erosion**
- **Winter-kills easily**
- **Scavenges nutrients well**

Description:

A simple, easy way to get started into cover crops, the Quick Cover Blend is a combination of the proven reCLAIM radish and VNS oats. This mix will establish fast, prevent fall erosion, and scavenge nutrients, including N, P, and K. The reCLAIM radish roots grow deep into the soil profile and will pull nitrogen and other leached nutrients back into the cash-crop root zone, making them readily available for the next season. Oats are outstanding for weed suppression erosion control.



Management	
Overall Management Level	Low
Over Wintering Ability	Low
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Highly Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	NA

Termination
reCLAIM radish winter kills around 15 degrees. Oats will winter kill at the first hard frost. If radishes or oats do not winter kill, apply a combination of one pint 2,4-D type herbicide along with one quart of glyphosate at flowering or heading.

Recommended Seeding Rates		
Seeding Method	Pounds per Acre	
	General	Forage
Drilling	25 lbs.	30 lbs.
Broadcast	35 lbs.	50 lbs.
Aerial	35 lbs.	50 lbs.
Precision Planting	20 lbs.	25 lbs.



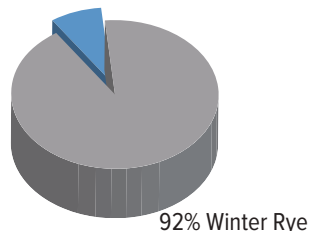


Land & Livestock Blend

Winter Rye/Radish

- **Easy to manage for being an overwintering blend**
- **Very good fall and spring weed suppression**
- **Builds soil below ground and protects it above**
- **Low risk of establishment comparatively**

8% Radish



Description:

An easy to manage blend of reCLAIM radish and reSTORE winter rye. The deep rooting radish will scavenge nutrients and alleviate compaction. Cereal rye is one of the most aggressive nitrogen scavengers and helps to suppress tough to manage weeds, including winter annuals like marehail. Can be used as a forage in both spring and fall.



Management

Overall Management Level	Medium
Over Wintering Ability	Excellent
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Need Experience
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Very Good
Seeding Depth	1/2" deep

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	50 lbs.	75 lbs.
Broadcast	65 lbs.	75 lbs.
Aerial	65 lbs.	75 lbs.
Precision Planting	40 lbs.	60 lbs.

Termination

reCLAIM radish dies around 15 degrees. Burndown winter rye with one quart of glyphosate. Best control is achieved by spraying on a warm day between 9 a.m. and 2 p.m. with water adjusted to 5.5 pH or lower. If radishes do not winter kill, add one pint of 2,4-D type of herbicide.





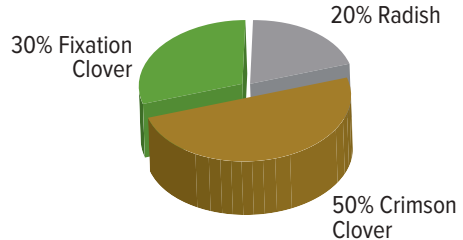
N-Fix Blend

Crimson/Fixation Clover/Radish

- **Nitrogen fixing & scavenging at its best**
- **Excellent after wheat, corn silage or seed corn**
- **Improves soil tilth**
- **Plant timely to take advantage of N production**

Description:

N-Fix is a combination of the nutrient scavenging reCLAIM radish, crimson clover, and Fixation Balansa clover. The reCLAIM radish breaks up compaction while absorbing key nutrients with its deep taproot. Both crimson and balansa clovers fix atmospheric nitrogen into plant-available nitrogen, helping reduce fertilizer input, while improving soil health by adding organic matter. Maximum nitrogen production is achieved at first flower of clovers.



Management

Overall Management Level	Medium
Over Wintering Ability	Medium
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Good
Seeding Depth	1/4" deep

Termination

reCLAIM radish winter kills around 15 degrees. Adding one pint of 2,4-D type of herbicide will terminate the crimson clover, balansa clover, and radishes that may have over wintered.

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	14 lbs.	20 lbs.
Broadcast	16 lbs.	24 lbs.
Aerial	16 lbs.	24 lbs.
Precision Planting	11 lbs.	17 lbs.





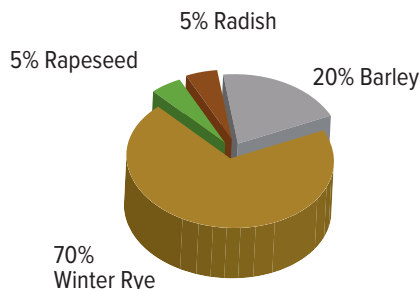
Bonus Blend

Annual Ryegrass/Radish

- **Excellent fall weed supresion**
- **More biological diversity to stimulate micobes**
- **Long establishment window for a fall blend**
- **Improve soil structure and increase OM**

Description:

This 4-way mix has a large planting window and low seeding rate compared to winter rye. The planting window is August 15th to September 30th. The mix contains reSTORE Winter Rye, Barley, Rapeseed and reCLAIM radish. The 4-way blend gives excellent fall weed suppression. It also provides multiple ways to scavenge nutrients. The lower seeding rate and chance that the Barley may not over winter will make it easier to terminate in the spring.



Management

Overall Management Level	Medium
Over Wintering Ability	Excellent
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Need Experience
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Very Good
Seeding Depth	1/2" deep

Termination

reCLAIM radish winter kills around 15 degrees while rapeseed requires about 5 degrees. The over wintering of Barley and Rapeseed will be variable from year to year. Use full rates of glyphosate for termination. If the radish or rapeseed overwinters you will need to add one pint of 2,4-D.

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	35 lbs.	50 lbs.
Broadcast	45 lbs.	60 lbs.
Aerial	45 lbs.	60 lbs.
Precision Planting	30 lbs.	40 lbs.



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	Bag Size	Seeding Rate	Comments
Alfalfa			
◆ Eldora II CT Alfalfa*	50 lb.	18-22	HR to Aphanomyces Race 2, high yield, branch rooted
Entree RL CT Alfalfa*	50 lb.	18-22	Reduced lignin, high digestibility, longer harvest time
◆ L-450RR CT Alfalfa*	50 lb.	18-22	Round-Up tolerant, great for problem fields, good yield
HopperNot CT Alfalfa*	50 lb.	18-22	Leaf hopper resistance, fits medium to long rotations
HybriForce 4400 UCT Alfalfa*	50 lb.	18-22	High Yielding hybrid, harvest flexibility, high quality
HybriForce 3420 Wet UCT*	50 lb.	18-22	Branch rooted hybrid alfalfa, high traffic tolerance
◆ 2200 UCT Alfalfa	50 lb.	18-22	Economical blend, Uncoated

Key CT-Coated Seed, UCT-Uncoated Seed

Clover			
◆ Freedom Med Red Clover CT*	25 lb.	15-20	Fast drying multi-year variety, great for dry hay
◆ Medium Red Clover CT	50 lb.	15-20	Short lived red clover
Ever Graze White Clover CT*	50 lb.	2-5	Ladino, excellent heat tolerance, grazing persistence
◆ Alice White Clover*	25 lb.	2-5	3 year forage variety, great for pasture renovation
◆ Frosty Berseem	50 lb.	15-20	Late maturing, multi-cut annual clover, high nitrogen fixation
◆ Alsike Clover	50 lb.	6-8	Good for wet pastures
Yellow Blossom Sweet Clover	50 lb.	15-25	Good for soil building
Mammoth Red Clover	50 lb.	15-20	Good for soil building
Red & White Clover Mix	25 lb.	6-10	70% Freedom Red, 30% EverGraze White

Orchard Grass			
◆ PHQ Orchard Grass*	50 lb.	5-20	Late maturing, high quality, leafy, disease resistant

Tall Fescue			
◆ PHQ Tall Fescue*	50 lb.	25-35	A blend of soft leaf, palatable fescues, hay & graze

Timothy			
◆ PHQ Timothy*	50 lb.	10-15	Late maturing, high yielding, hay & graze type

Perennial Ryegrass			
◆ BG-24T Per Ryegrass*	50 lb.	30-40	Excels in quality, palatability, tetra & di-ploid blend

Festulolium			
◆ Hostyn Festulolium*	50 lb.	25-35	Medium-maturing, ryegrass type, excellent yield
◆ Fojitan Festulolium*	50 lb.	25-35	Med-late maturity, tall fescue type, high feed value

Other			
◆ Green Spirit Italian Ryegrass*	50 lb.	35-45	Italian Rye blend, high yields, great overall performance
◆ Centurion Annual Ryegrass	50 lb.	35-45	High feed value, outstanding winter-hardiness
◆ Smooth Brome	50 lb.	30-40	Dependable, best for waterway seeding
◆ Palaton Reed Canary grass	50 lb.	12-18	Very wet & drought tolerant, low alkaloid
Waterway Mix	25 lb.	35-50	65%TF, 15%T, 15%PRG, 5%ARG
◆ Birdsfoot Trefoil	50 lb.	6-8	Late maturing legume, works well on low ph & wet soils
◆ Chicory	50 lb.	2-5	Deep tap root, breaks up hard pans, high value feed

◆ Available on a per pound basis, may be subject to split-bag charge January 13, 2022
 ◆ **Special Order Item No Returns or Cancellations and may incur additional shipping charges**

	Bag Size	Seeding Rate	Seed Alone or with a Legume
Hay & Pasture Mixes			
AlfaCut Hay Mix*	25 lb.	25	65% ALF, 25% OG, 10% T
4Grass Hay Mix*	25 lb.	25-40	50% TF, 25% FTM, 20% OG, 5% T
RapidGraz Pasture Mix*	25 lb.	25-40	50% FTM, 25% PRG, 15% OG, 5% WC, 5% RC
PowerGraz Pasture Mix*	25 lb.	25-40	50% TF, 20% PRG, 20% OG, 10% FTM

ALF-Alfalfa, PRG-Perennial Rye Grass, OG-Orchard Grass, TF-Tall Fescue, IRG Italian RyeGrass

T-Timothy, RC-Red Clover, WC-White Clover, FTM-Festulolium

Summer Annuals			
◆ SP3905 BD/BMR Forage Sorgh.	50 lb.	10	Brachyatic dwarf, BMR, Safened, Excellent silage
Sordan 79 Sorghum X Sudan	50 lb.	40-50	Conv., Good Leaf-to-Stem ratio, Hay, haylage, or chop
SP4105 BMR Sorghum x Sudan	50 lb.	40-50	BMR, PS (headless) longer harvest window-multicut
SP7106 BMR Sudangrass	50 lb.	20-30	BMR, PS (headless) Hay, Haylage, Grazing-multicut
Millex 32 Pearl Millet	50 lb.	20-30	Forage type pearl millet, graze or hay, no prussic acid threat
◆ Teff Grass	50 lb.	6-12	Forage type, great tonnage and quality combination

Cover Crops			
◆ AwakeN Blend	50 lb.	30-50	8 way mix of Cover Crop seeds
Bonus Blend	50 lb.	30-40	70% Winter Rye, 20% Fall Barley, 5% Radishes, 5% Rape
Land & Livestock	50 lb.	40-50	92% Winter Rye, 8% Radish
Quick Cover Blend	50 lb.	25-35	85% Oats, 15% Cover Crop Radish
◆ N-Fix Blend	50 lb.	11-17	20% Radish, 50% Crimson Clover, 30% Fixation Clover
Secure Blend	50 lb.	15-18	80% Annual RyeGrass, 20% Cover Crop Radish
reCLAIM Radishes	50 lb.	6-10	Deep tuber & taproot, excellent nutrient retention
Centurion Annual Ryegrass	50 lb.	12-15	A winter hardy variety with good roots
reSTORE Winter Rye (Cereal)	56 lb.	45-84	Premium Cleaned Seed, higher purity
Winter Rye (Cereal)	56 lb.	45-84	Cover crop & spring grazing
◆ Triticale	48 lb.	45-84	Cross of wheat & rye for forage and cover crop
◆ Barley (Winter)	48 lb.	50-75	Excellent for forage & grain
◆ Hairy Vetch (Inoc)	50 lb.	15-20	Good top growth, high nitrogen fixation
◆ Buckwheat	50 lb.	30	Good for cover crops or as a green manure
Fixation Balansa Clover	50 lb.	6-10	Annual legume, manage like Crimson
Crimson Clover	50 lb.	15-20	Annual clover, good for cover crop, organic matter

Brassicas			
◆ Barkant Turnips	25 lb.	4-5	High leaf & tankard bulb shaped variety
◆ Purple Top Turnips	50 lb.	4-5	Excellent for grazing, high protein
◆ Dwarf Essex Rapeseed	50 lb.	4-5	Turnip like top with no bulb, multiple grazing ability
◆ Winfred Forage Brassica	55 lb.	4-5	Turnip like top with no bulb, lives until -5 degrees F
Brassica Mix	50 lb.	5-10	50% Radish, 25% Turnip, 25% Rape

Miscellaneous			
◆ Winter Peas	50 lb.	50-70	Forage & Cover Crop Peas
◆ Cowpeas	50 lb.	50-70	Drought tolerant, good source of N
Spring Oats	48 lb.	50-70	Shelby 427, Reins
◆ Oats & Peas	50 lb.	100	Early spring growth, good hay and grazing

Increase Cover Crop seeding rates by 25% for Aerial or Broadcast Seeding

1/13/22

Increase seeding rates of Cover Crops by 50% if Grazing



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COVER365™



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