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PRODUCT	DESCRIPTION	ANNUAL OR PERENNIAL	PLANTING DEPTH	WHEN TO PLANT	HOW MUCH TO PLANT	RECOMMENDED SUNLIGHT	PREF. SOIL PH	RECOMMENDED FERTILIZER WITHOUT A SOIL ANALYSIS	PROTEIN CONTENT AND NUTRITION	WHEN TO EXPECT USAGE	BEST SOIL TYPE
CLOVER PLUS 	A blend of our most successful New Zealand red and white clovers and chicory. Extremely palatable. Produces huge leaves, not stems. Highly nutritious.	Perennial – 3 to 5 years or more.	1/4 inch or less.	In south plant during the early fall. In north plant during the spring.	9 lbs. per acre.	At least 4 hours per day.	6.0 – 7.0	350 lbs. of 9-24-30. Once established use a product with little or no nitrogen like a 0-20-20, 300 – 400 lbs. per acre.	24 – 35% protein. Chicory is extremely high in mineral content and is perfect for end stage antler genesis.	Spring through plant dormancy.	All types pending adequate soil moisture is available.
MAXIMUM 	A blend of 100% New Zealand brassicas. The ultimate in attractiveness and nutrition.	Annual	1/4 inch or less.	Anytime during the growing season pending adequate soil moisture. Typically late Summer or Fall.	9 lbs. per acre.	At least 6 hours per day.	6.0 – 7.0	350 – 400 lbs. of 13-13-13	Up to 38%. Averages 34%. As good as it gets for whitetail.	Palatability increases as the plants mature. Best late fall through the winter. However, may be consumed as fast as it grows.	All types pending adequate soil moisture is available.
PREMIUM PERENNIAL 	A blend of New Zealand red and white clovers, our best chicory cultivars and our most nutritious and palatable brassica cultivars.	Combination of annuals and perennials. Perennials – 3 to 5 years.	1/4 inch or less.	Spring or Fall.	9 lbs. per acre. Can over-seed with Maximum to add back the annual part of the blend.	At least 6 hours per day.	6.0 – 7.0	350 lbs. of 10-20-20. For established perennials use a product with little or no nitrogen like a 0-20-20, 300 – 400 lbs. per acre.	Up to 38%. Averages 34%. As good as it gets for whitetail. Excellent calcium to phosphorous ratio.	All year	All types pending adequate soil moisture is available.
FULL DRAW 	A blend of BioLogic's most succulent forage wheat, annual clovers and brassicas.	Annual	1/4 inch.	Late Summer to Fall.	10 lbs. per acre.	At least 6 hours per day.	5.8 – 7.0	350 – 400 lbs. of 13-13-13	Up to 38%. The blend of small grains, clovers and brassicas provide a high level of nutrition and palatability throughout hunting season.	Soon after germination. The forage wheat and annual clovers during their first month of growth, brassicas late fall through the winter. May be consumed as fast as they grow.	All types pending adequate soil moisture is available.
GREEN PATCH PLUS 	A blend of traditional grains, New Zealand brassicas and clovers.	Annual	1/4 inch.	Late Summer to Fall.	40 lbs. per acre.	At least 6 hours per day.	5.8 – 7.0	350 – 400 lbs. of 13-13-13	Up to 38%. The blend of small grains, clovers and brassicas provide a high level of nutrition and palatability throughout hunting season.	Very soon after germination. The forage wheat and annual clovers are extremely palatable during their first month of growth. The brassicas are best late fall through the winter.	All types pending adequate soil moisture is available.
HOT SPOT 	A blend of three rapidly germinating cultivars (wheat, buckwheat and Austrian Journey Pea) that will do well even in marginal soil. Designed for attraction.	Annual	1/4 inch. Remove debris with rake, open the bag and shake out the seed. Fertilize, rake and wait for rain.	Late Summer to Fall. Plant about 3 to 5 weeks before you wish to hunt the location.	5 lbs. to a 20x20 yard square recommended around hunting area.	At least 4 hours per day.	5.6 – 7.5	40 lbs. of 10-10-10 per 20x20 yard square	Hot Spot's specific job is attraction. Designed with a hunting plot situation in mind.	Shortly after germination	All types pending adequate soil moisture is available.
BIOMASS 	Beans, peas, sorghum, soybeans and sunflower. Designed for nutrition and attraction.	Annual	1/4 to 1/2 inch.	Can be planted anytime during the spring after the last frost date, and through the early fall.	25 lbs. per acre.	Best in full sun.	5.8 – 7.0	300 – 500 lbs. of 10-10-10 per acre	The summer legumes are high in protein. This blend can significantly help in antler growth and fawn production.	Shortly after germination, but the grains and beans will attract long into the season.	All types pending adequate soil moisture is available.
BIOMASS ALL LEGUME 	Soybeans, Iron & Clay Peas, Lablab beans. Designed to be used with a "grass-specific" herbicide.	Annual	1/4 to 1/2 inch.	Can be planted anytime during the spring after the last frost date, and through the early fall.	25 lbs. per acre.	Best in full sun.	5.8 – 7.0	300 – 500 lbs. of 10-10-10 per acre	The summer legumes are high in protein. This blend can significantly help in antler growth and fawn production.	Shortly after germination, but the grains and beans will attract long into the season.	All types pending adequate soil moisture is available.
TURKEY GOLD CHUFA 	Chufa is relished by wild turkeys. BioLogic and the NWTf have developed the best quality chufas found anywhere.	Annual. Needs only 90 days to mature.	1 to 1 1/2 inches.	Chufa will grow anywhere you can grow corn. Plant after the danger of a hard frost is gone and day-time air temperatures are at least in the 70s.	Broadcast 40 – 50 lbs. per acre, or drill using corn planter with peanut plates at 35 lbs. per acre in 36-inch rows.	Full Sun.	6.0 – 7.0	400 lbs. of 13-13-13 per acre	30% protein and high in vitamin content.	As soon as plant matures and tubers are present. In northern regions, tubers will freeze in ground and be available the following spring. Perfect for turkey season.	Sandy or loamy areas, but will also do well in all types pending adequate soil moisture and drainage is available.
LABLAB 	A vigorous, twining legume. High in protein and resistant to insects and disease. Grows well in a variety of soils and conditions.	Annual	1/2 to 1 inch deep.	Plant whenever soybeans are being planted in your area. Typically March in the deep south to June in the northern zone, or whenever soil temperatures reach 65° or warmer.	20 lbs. per acre.	Fun sun to partial shade.	5.0 – 8.0 but prefers 6.0 – 7.0	300 lbs. of 0-20-20	Will produce 5,000 – 7,000 lbs. of forage per acre at an average protein content of approximately 25%.	Expect usage shortly after germination. Lablab is very tolerant of browsing once it is established but it is vulnerable to browse pressure for the first 30 days of growth. In small plots, it is wise to protect Lablab with P2 Plot Protector for the first month if you anticipate browsing pressure.	Lablab will grow in any type of soil pending adequate soil moisture is present and it is well drained. It is very drought tolerant once established but does not grow well in wet soils.
OUTFITTER'S BLEND 	A blend of Oats, Wheat, Triticale and Austrian Winter Peas with a very small percentage of brassicas and clover also.	Annual	1/4 to 1/2 inch deep.	Plant late summer in the north and fall in the south.	45 lbs. per acre.	Partial to full sun. At least 6 hours per day.	5.8 – 7.0	350 lbs of 13-13-13 per acre	10% to 20% protein depending on the stage of growth the plant is in. However the proteins are highly digestible up to 60%.	Expect usage to start shortly after germination.	Will grow in all soil types pending adequate soil moisture is available.
GUIDE'S CHOICE 	A blend of Japanese millet, sorghum and buckwheat. Possibly the most advanced waterfowl planting ever.	Annual	1/4 inch or less.	Late May through July in Northern Climates and July through early August in the south. Some components need only 50 to 60 days to mature. Needs 75-80 days for all components to fully mature under normal conditions.	40 lbs. per acre.	Full sun.	6.2 – 7.0	300 – 500 lbs. of 10-10-10 per acre	Seed production is very high with this blend. It is also high in vitamin content.	Usage will start after the plants have matured some 45 to 90 days after germination. For waterfowl, much will depend on the availability of water to attract the waterfowl.	Will grow in a wide variety soil types and a wide variety of dry or wet environments.
WHISTLEBACK 	A blend of millets, sorghum, sunflowers, egyptian wheat and other seed producing plants that are loved by upland birds, waterfowl and wild turkeys.	Annual	1/2 inch deep.	Late spring early summer through mid summer.	10 lbs plants a 1/2 acre. Best planted in strips.	Best in full sun.	5.8 – 7.0	75 lbs of 10-10-10 per 1/2 acre	Not applicable.	Expect utilization by birds in the fall and winter.	All types pending adequate soil moisture.
WINTER PEAS 	A planting of extremely attractive cold tolerant peas.	Annual	1/4 inch deep.	Plant late summer in the north and fall in the south.	40 lbs. per acre.	Partial to full sun. At least 6 hours per day.	6.0 – 7.0	350 lbs of 9-24-30 per acre.	Average protein content of approximately 25%. Will vary depending upon the stage of growth.	Expect usage shortly after germination.	Will grow in all soil types pending adequate soil moisture is available.
PERFECT PLOT 	A blend of perennial red and white clovers, chicory and alfalfa along with our most nutritious and palatable annual brassica cultivars and winter peas.	Both	1/4 inch or less.	In the north it can be planted in the spring or late summer. In the south it should be planted in the late summer or fall.	9 lbs. per acre.	Partial to full sun. At least 6 hours per day.	6.5 to 7.0	350 lbs 10-20-20. at planting. Then for established perennials use a product with little or no nitrogen like a 0-20-20 300 to 400 lbs per acre.	Clovers and alfalfa yield 24% -35 % protein! Chicory is extremely high in mineral content and is perfect for end stage antler genesis. Brassicas yield up to 38%. Averages 34%. As good as it gets for whitetail! Excellent calcium: phosphorous ratio.	All year in the south. In the north it will last until the brassicas are eaten in the winter. After the first year the perennial portion will produce from spring green up through to plant dormancy.	Will grow in all soil types pending adequate soil moisture is available. The alfalfa and chicory in this blend make it the best choice for a perennial in dryer or sandy conditions.
TROPHY OATS 	A blend of BioLogic's most succulent and hardy oat cultivars.	Annual	1 to 2 inches.	Plant in mid to late August in northern zone, September in the middle latitude states and Sept. Oct. in Southern states.	90 lbs. per acre.	Full sun	6.0 – 7.0	350 lbs. of 10-10-10	10% – 20% protein depending on the stage of growth the plant is in. However the proteins are highly digestible up to 60%.	Expect usage to start shortly after germination.	Will grow in all soil types pending adequate soil moisture is available.



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TEXAS DRAW 	A blend of Austrian peas, triticale, wheat, oats, clover and chicory developed in cooperation with the Texas Trophy Hunters Association.	Annuals and perennials. However, under the harsh Texas conditions the perennials may not come back.	1/4 inch.	September through October depending on your location in Texas and when ample top-soil moisture is present.	40 lbs. per acre	Prefers full sun but will still produce in as little as 6 hours per day.	5.8 - 7.0	300 lbs. of 13-13-13 per acre at the time of planting.	The clovers and the chicory will provide 25% to 35% crude protein. The blend of small grains, clovers, peas and chicory provide for a high level of nutrition and palatability throughout hunting season.	Expect usage to start shortly after germination.	Will grow in all soil types pending adequate soil moisture is available. This blend is especially suited to the harsh dry conditions found in Texas.
CHICORY 	BioLogic's Chicory cultivars will enhance other fields or can be grown alone to produce tons of highly nutritious, mineral rich forage. Works extremely well in dry areas.	Perennial - 4 to 6 years when maintained.	1/4 inch or less. It works well to broadcast BioLogic Chicory directly onto a prepared seedbed by blending it with the other seed to be planted. It can also be broadcast onto an existing stand of clover, or planted by itself.	Spring or fall	8 lbs. per acre	Best in full sun but will grow in as little as 6 hours per day.	5.5 - 7.0	If planted alone use 400 lbs. of 10-10-10 per acre. If planted with clover we recommend ensuring the plot receives at least 400 lbs. per acre of phosphorous and potassium.	Very high in minerals. 25%-30% crude protein Chicory is a deep-rooted, drought resistant, extremely nutritious perennial crop that has been a foundation of BioLogic's perennial blends. Now these same cultivars are available as an additive that you can simply add to your food plot blends.	Chicory thrives in dry, hot weather and also becomes very palatable at that point. When your clovers go dormant in the hot, dry weather, chicory keeps a nutritious food source available. Chicory can also be a great attractor for hunting season.	Will grow in all soil types pending adequate soil moisture is available. Does well in dryer areas where some clovers are hard to establish.
WINTER BULBS 	A super late season blend of selected guaranteed bulb producing brassicas. The forage is consumed first and then the deer dig up and eat the bulbs. Also included are sugar beets, known in the upper Midwest to be relished by whitetails.	Annual	1/2 inch or less.	August in the north, September in the south, Late July in Canada.	9 lbs. per acre	At least 6 hours per day.	6.0 - 6.5	350-400 lbs of 13-13-13 per acre.	Up to 38%. Averages mid to low 30's. The bulbs are relished late.	Utilization occurs from first frost until late winter. Proven late season performer.	All types pending adequate soil moisture is available.
SUDDEN IMPACT 	This is a blend of our best New Zealand perennial red and white clovers that were preferred by the legendary whitetail Sudden Impact, who grew the largest antlers ever (492" as a three year old). Also including varieties of cold hardy alfalfa, highly preferred birdsfoot trefoil and our most attractive, nutritious chicory.	Blend of Perennials	Seed to soil contact is most important.	In southern climates it should be planted during the early fall. In northern climates it should be planted during the spring. In the middle latitudes site-specific factors such as soil moisture and temperature should determine the planting date - stands can be successfully established during either the spring or late summer/fall planting seasons.	9 lbs. per acre	Full sun is best.	6.3 to 7.5. The birdsfoot trefoil in this blend will do well in soil pHs as low as 4.5 however the best forage production will occur between 6.5 and 7.0.	350 lbs 9-24-30 at planting. Then for established perennials use a product with no nitrogen, for instance 0-20-20 at a rate of 300 to 400 lbs per acre. It is best to fertilize to the results of a soil test.	Clovers yield 24% -35 % protein depending upon the stage of growth. The alfalfa change in quality depending upon their stage of growth - 30% to 36% if less than 40% bloom, 20% to 30% if less than 60% bloom. Our chicory is extremely high in mineral content. Perfect for the last stages of antler genesis. Our birdsfoot trefoil has a high TDN content (62.6).	Sudden Impact should be utilized all year in the south, or until the plants go dormant from cold temperatures. In the north expect usage from spring green-up until the plants go dormant for the winter. The plants are very cold hardy and even in the northern tier of states Sudden Impact has been known to produce into December.	Will grow in all soil types pending adequate soil moisture is available. The alfalfa, birds-foot trefoil and chicory in this blend make it the best choice for a perennial in more well drained soil.
PLOT PERFORMANCE ADDITIVE BRASSICA 	BioLogic's Brassica allows any clover or typical green-field plot to include the great nutritional quality and massive forage production of BioLogic's brassica cultivars.	Annual	1/4 inch or less. Broadcast onto a prepared seedbed with the other seed to be planted, or broadcast onto an existing stand of clover, wheat, rye, etc.	Spring or Fall	9 lbs. per acre or can be used to mix with other blends at time of seeding. Can be over-seeded onto existing plots.	At least 6 hours per day.	5.8 - 7.0	400 lbs. of 13-13-13 per acre.	34% to 38% crude protein.	Deer may react differently to brassicas in different areas. They may eat them as fast as they come out of the ground. However, more often they will wait until the cool fall temperatures convert the starches to sugar.	All types pending adequate soil moisture is available. Does well in dryer areas where some clovers are hard to establish.
PLOT PERFORMANCE ADDITIVE ALFACLOVER 	This unique blend alfalfa and clover cultivars is different from any other alfalfa-clover blend marketed in the United States. These blends are specifically engineered for deer.	Combination of annuals and perennials. Perennials - 3 to 5 years.	1/4 inch or less. Spread seed on a well-prepared seedbed at 9 lbs. per acre. Use a cultipacker to cover the seed. Or broadcast the seed prior to rain as the rain serves to bury the seed.	Spring or Fall	9 lbs. per acre or can be used to mix with other blends at time of seeding. Can be over-seeded onto existing plots.	At least 6 hours per day.	6.5 - 7.0	15 lbs. of nitrogen and 50 - 60 lbs. of phosphorous and potassium per acre. 300 - 500 lbs. of 3-9-9 per acre during establishment, and thereafter annually.	25% to 30% protein. The alfalfa provides exceptional growth and nutrient availability during drought and stress periods when clovers are not as productive.	The use of an annual, rapidly maturing clover ensures fast forage production and palatability.	All types pending adequate soil moisture is available.
PLOT PERFORMANCE ADDITIVE ALFALFA 	BioLogic's Alfalfa blend is preinoculated with new technology that increases shelf life of rhizobium (the bacteria that allows legumes to create nitrogen).	Perennial - 6 years with proper care	1/4 inch or less.	In the Southern zone, plant during the fall when adequate soil moisture is available. In the Northern zone, plant during the spring. Stands can be successfully established during both the spring and fall planting seasons in the middle latitudes.	9 lbs. per acre or can be used to mix with other blends at time of seeding. Can be over-seeded onto existing plots.	Best in full sun but will grow in as little as 6 hours per day.	6.5 - 7.0	300 - 500 lbs. of 3-9-9 per acre during establishment, and thereafter annually.	20% - 30% protein depending on what stage of bloom it is in.	Drought and stress periods when clovers are not as productive.	All types pending adequate soil moisture is available. Does well in dryer areas where some clovers are hard to establish.
PLOT PERFORMANCE ADDITIVE CHICORY 	BioLogic's Chicory allows any clover or typical green-field plot to include the great nutritional quality and persistence of BioLogic's chicory cultivars. Works extremely well in dry areas.	Perennial - 4 to 6 years with proper care. Does best if grown with a nurse crop.	1/4 inch or less. Broadcast onto a prepared seedbed with the other seed to be planted, or broadcast onto an existing stand of clover. Best results occur when the clover is less than 3 inches tall so the seed can make soil contact.	Spring or fall	Mix with other blends at time of seeding. Can be over-seeded onto existing plots.	Best in full sun but will grow in as little as 6 hours per day.	5.5 - 7.0	400 lbs. per acre of phosphorous and potassium if it is added to a clover based plot. If chicory is added to a non-legume based crop then add at least 400 lbs. per acre of 10-10-10 or more concentrated fertilizer.	Very high in minerals. 25% - 30% crude protein.	When clovers go dormant in the hot, dry weather, chicory keeps a nutritious food source available. Chicory is also great attraction during the first half of the hunting season.	All types pending adequate soil moisture is available. Does well in dryer areas where some clovers are hard to establish.

