IMPORTANT INFORMATION REGARDING YOUR NEW 4-WAY ANALYZER

HOW TO USE YOUR ANALYZER TO MEASURE FERTILITY

- 1. Remove the top 2" of the soil. Break up and crumble the soil underneath to a total depth of 5".
- Thoroughly wet the soil with water (ideally rain or distilled water) to a mud consistency.
- 3. Wipe the meter probes clean with a tissue or paper towel.
- 4. Move the switch to the first (top) position.
- 5. Insert the probes into the soil to within 1" of the casing. Allow approximately 10 seconds for the reading to stabilize.
- 6. Record the reading. Remove the probes from the soil and clean thoroughly.

The standards by which the instrument is calibrated are as follows:

	Too Little	Ideal Range	Too Much
Nitrogen	50 ppm	50 to 200 ppm	200 ppm
Phosphorous	4 ppm	4 to 14 ppm	14 ppm
Potash	50 ppm	50 to 200 ppm	200 ppm

ppm is defined as parts-per-million

HOW TO USE YOUR METER TO MEASURE LIGHT

- 1. Move the switch to the 2nd position.
- 2. Point the photocell on the top of the analyzer directly at the light source while holding the analyzer at leaf level. Avoid positioning your hand or body between the light source and the plant or position you are measuring.
- 3. Record the reading (x 1000) and the time of day.
- Take readings in the mid-morning, mid afternoon and early evening to determine the average light intensity.

Example:

- 9 AM reading X 4 hours = Foot-candle hours (Average between 7AM and 11AM)
- 1 PM reading X 4 hours = Foot-candle hours (Average between 11AM and 3PM)
- 5 PM reading X 4 hours = Foot candle hours (Average between 3PM and 7PM)

Total Daily Foot Candle Hours = Total From Above

Information on plant light requirements is in the enclosed pamphlet.

HOW TO USE YOUR METER TO MEASURE SOIL MOISTURE

- 1. Move the switch to the 3rd position.
- Insert probes into soil up to plastic base, about half way between the edge of the container & the stem of the plant. Do not push the probe too near the stem.
- 3. Note the reading.
- 4. Remove the probes from the soil. Wipe thoroughly with a soft cloth or tissue before taking another reading or putting away.
- 5. Do not leave the probe in soil for long periods of time. Do not use in liquids! Information on plant moisture requirements is on the panel below.

HOW TO USE YOUR METER TO MEASURE SOIL pH

- 1. Remove the top 2" of the surface soil. Break up and crumble the soil underneath to a total depth of 5". Remove any stones or organic debris such as leaves and twigs because they can affect the final result.
- Thoroughly wet the soil with water (ideally rain or distilled water) to a mud consistency.
- 3. Move the switch to the last (bottom) position.
- 4. Wet probes. Polish probe on the FAR RIGHT ONLY, with the enclosed special cleaning pad.
- 5. Insert probes into soil up to plastic base.
- 6. Wait one minute and take reading.
- 7. Wipe the probes clean and dry.

Information on soil pH and plant pH preferences is on the enclosed pamphlet.

SPECIAL CLEANING PAD

The cleaning pad supplied with this analyzer has been specially selected for its compatibility with the analyzer probe metals. Other type of cleaners may cut or otherwise damage probe surfaces and/or adversely affect analyzer readings. Additional pads are available at a cost of \$2.00 for 3 pads, plus \$1.00 for postage and handling. Please send a check or money order, payable to Luster Leaf Products, Inc. to the address on the back of this card. No COD or phone orders, please.

GENERAL WATERING ADVICE

Each plant in the Watering Chart has been given a "watering number". For each plant, water only when the needle registers on or below the watering number. Plants with higher watering numbers (3 or 4) like to be kept moist. Plants with lower numbers prefer drier conditions. Check small pots more often than larger ones, they dry out more quickly. Over-watering rots plant roots so don't water too frequently.

GENERAL WATERING GUIDE FOR CONTAINERIZED GROWING

Shrubs - foliage: 1 - 2 Annuals: 1 - 2 Perennials: 2 - 3 Shrubs - flowering: 2 - 3 Biennials: 1 - 2 Vegetables: 2 - 3

WATERING CHART

WATERING NO. 1

Aloe Hens and Chicks Pony Tail Century Plant Kalanchoe Umbrella Tree Euonymus Myrtle Geranium	Gold-Dust Plant Poinsettia Cardinal Flower Jelly Bean Plant Sugar Almond Dumb Cane Lucky Clover Wandering Jew Panda Plant	Peperomia Cape Ivy Jade Plant Snake Plant Dipladenia Lantana Vriesia Flaming Katy	Calceolaria Inch Plant Shrimp Plant Ceropegia Kaffir Lily Verbena Figs Orchid
WATERING NO. 2 African Violet Chinese Evergreen Norfolk Island Pine Bamboo Palm Easter Lily Silk Oak Burro's tail Grape Ivy Hibiscus	Castor Oil Plant Nicodemia Arrowhead Vine Devil's Ivy Rubber Plant Browalia Glory Lily Wax Plant Cast Iron Plant	Monstera Aralia Crown of Thorns Philodendron Black-Eyed Susan Figs, Weeping Swedish Ivy Cacti Jerusalem Cherry	Amarylis Cineraria Parasol Plant Bird of Paradise Fat-headed Lizzie Snakeskin Plant Buxus Succulents
WATERING NO. 3 Baby's Tears Copperleaf Nasturtium Bloodleaf Cyclamen Pilea Caladium Flowering Maple Sensitive Plant Christmas Cactus Hedera Ivy Violet Flame Coleus	Columnea Mosaic Plant Begonia Cupid's Bower Passion Flower Busy Lizzie Finger Aralia Primula Chenille Plant Gloxinia Velvet Plant Clerodendrum Jacobinia	Kangaroo Thorn Begonia Rex Creeping Moss Parlor Palm Buddhist Pine Figs, Creeping Prayer Plant Camelia Fushia Plant Vase Plant Chrysanthemum Jacaranda Peppers	Bay Tree Coral Berry Oleander Bottlebrush Plant Dracena Plume Flower Calla Lily Friendship Plant Spider Plant Christmas Pepper Heliotrope Zebra Plant
WATERING NO. 4 Anthurium Hydrangea Venus Flytrap Ferns Peace Lily	Hyacinth Umbrella Plant Butterfly Flower Painters Palette	Pigmy Date Palm Bougainvillea Lady Palm Melons	Azalea Jasmine Tomatoes Gardenia

LIMITED WARRANTY

The tester is warranted free from defects for one year from date of purchase. During this period the unit may be returned to Luster Leaf Products, Inc. with proof of purchase and \$5.00 to cover postage and handling. It will be repaired or replaced. During the initial 90 days of this warranty period the selling dealer is also authorized to replace a defective meter.

This warranty does not cover abuse, accidental damage, repair by anyone other than Luster Leaf Products, Inc., or consequential loss or inconvenience resulting from use of the meter.

This warranty gives you certain specific legal rights and you may also have other rights which vary from state to state.

SERVICE

If adjustment or repair becomes necessary after the warranty expires, return the meter to Luster Leaf Products, Inc. with \$10.00 to cover postage, handling and service. Service includes labor & parts as required, except for replacement of externally damaged or lost components.

For service, or information regarding other Luster Leaf Products, Inc. items, please address:

Luster Leaf Products, Inc.

2220 Techcourt

Woodstock, Illinois 60098



FERTILITY

A fertile soil is one which produces satisfactory yields of crops and, because of the incorporation of plant and animal residues, contains an abundance of organic matter or humus. It has good texture, not too loose and light nor too heavy and stiff, is well drained and has a proper pH for best plant growth. A fertile soil has sufficient amounts of the three major elements, nitrogen, phosphorous and potassium (potash). It also contains a sufficient supply of the micronutrients such as boron, copper, iron, sulfur, magnesium and molybdenum and consists of an abundance of organic matter and humus.

IF THE ANALYZER READS "TOO LITTLE"

- Liquid feed with a brand of soluble fertilizer that is recommended for the plants you intend to grow.
- Liquid feed within 3 weeks after planting or potting and do this every month whenever you water your plants.

IF THE ANALYZER READS "IDEAL"

 Water once a month with a soluble fertilizer that is recommended for the plants you are growing.

IF THE ANALYZER READS "TOO MUCH"

- Water thoroughly to leach out the excess fertilizer from the soil.
- 2. For potted plants, repot with new soil.
- For greenhouse plants water thoroughly to leach excess fertilizer from the soil.
- 4. Do not add any fertilizer. You can add manure, compost, clippings, plant wastes, residues, leaves and any other organic matter to the soil.

HOW TO INCREASE SOIL FERTILITY

There are many ways to increase and maintain the valuable nutrients of your soil which contribute to its fertility. Just as some plants need a rather acid soil, while others need a slightly alkaline soil, they also need varying amounts of nitrogen, phosphorous and potash known as NPK. Each plant brings about changes in the soil and has soil needs different from other plants. You won't need to worry much about having exactly the right amount of each element for each plant you grow. As long as your soil is well balanced and rich in organic matter your plants will not suffer.

FERTILIZER

Fertilizer is a substance added to the soil to improve fertility. Since a variety of elements contribute to the fertility of the soil, many individual elements and combinations of elements are considered fertilizers.

THE VALUE OF NITROGEN

Nitrogen is synonymous with plant nutrition. It is directly responsible for producing leaf growth and green leaves.

A deficiency causes yellow leaves and stunted growth. Too much nitrogen causes overabundant foliage with delayed flowering; the plant becomes subject to disease and its fruit is of poor quality.

Soil deficient in nitrogen can be corrected by adding compost, manure or other nitrogen-rich fertilizers such as dried blood, tankage, cottonseed meal and peanut shells. Grass clippings, weeds and garden wastes returned to the soil will increase its humus and nitrogen content.

THE VALUE OF PHOSPHOROUS

Growing plants need phosphorous. It is the major constituent of plant genetics and seed development. A deficiency causes stunted growth and seed sterility. Phosphorous aids plant maturity, increases the seed yield, increases fruit development, increases vitamin content and aids the plant's resistance to disease and winterkill.

The best source of phosphorous is phosphate rock, when it is finely ground. Bacteria that thrive in pH 6.5 to pH 7 help breakdown the phosphorous making it available to plants.

Other sources of phosphate are bone meal, cottonseed meal and activated sludge. Barring any great deficiencies, a pound of phosphate rock for every ten square feet of your garden space is a goodly amount to apply once every two or three years. Phosphorous has the tendency to "grab" hold of the soil. In this manner, phosphorous is not easily leached from the soil as is nitrogen and potash.

THE VALUE OF POTASSIUM (POTASH)

Potash strengthens the plant. It helps form carbohydrates and promotes protein synthesis. It further aids early growth, stem strength and cold hardiness.

Plants deficient in potash are usually stunted and have poorly developed root systems. Leaves are spotted, curled and appear dried out at the edges. Yields for potash deficiency are low.

Sources for potash are plant residues, manures, composts and natural sources like granite dust, basalt rock or greensand, wood ashes, leaves and seaweed.

ACIDITY AND ALKALINITY

Acidity and alkalinity of soils are the result of 1: the chemical composition of the rock from which the soil is derived, and 2: the partial or complete decomposition of vegetation. The acidity or alkalinity of the soil is measured in terms of pH. pH of the soil is the basic indicator of soil health and fertility. Soil pH is easy to determine and, in most cases, easy to control.

In years past, a gardener or farmer tasted his soil. If it tasted sour, he knew that it wasn't good for raising crops. The same thing went for a bitter taste. If it tasted sweet, he knew that he could expect high yields. He may not have known that soil that tasted sour was too acid to raise good crops and soil that tasted bitter was too alkaline to produce the yield wanted, but he knew that "sweet" soil was perfect for growing plants.

A few plants, like blueberries, flourish in fairly acid soil, but most garden crops, lawn grasses, trees, and shrubs prefer soils that are either neutral or slightly acid. Moreover, microorganisms and chemical elements in the soil work more vigorously to make nutrients available to plants when the soil is nearly neutral rather than too acid or alkaline. Nitrogen fixing bacteria are most prolific at pH 6.6 to neutral (pH7.)

Excessive acidity in the soil causes calcium, phosphorous and magnesium to be changed into forms that plants cannot use, causing them to suffer a deficiency of these elements. Plants won't tolerate highly acid conditions. Slowdown of beneficial bacterial action is part of the reason; increased toxicity from certain trace elements like aluminum is another. Deficiency of calcium and magnesium is a third possibility. The best explanation is that in acid soils, chemical reaction can lock up major nutrients, especially phosphorous, making them unavailable to plants.

Heavy use of inorganic, high-analysis fertilizers causes soil to become more acid, as does heavy use of sulfur-containing fungicides. The same result can stem from using organic fertilizers that have an acidifying effect.

Acidity and alkalinity are measured in pH units, the pH being a symbol for the relative amount of hydrogen in a substance. On a pH scale from I to 14, 5 and below are extremely acid and 10 or more extremely alkaline. Soil alkalinity or acidity, then, is determined by the reaction of various minerals and organic compounds with moisture in the soil.

Plants are often listed according to their pH preference. Some plants respond differently to pH in different soils. Other plants tolerate a comparatively wide range of pH.

Obviously, for high yields, the gardener or farmer must know the soil's pH. Then the gardener/farmer can either grow the kinds of plants that do best in soil of that particular pH, or steps can be taken to change the soil pH to within the preferred range for the plants desired.

For the majority of common plants, a pH of 6.5 to 7 is optimum. Soils in this pH range offer the most favorable environment for microorganisms that convert atmospheric nitrogen into a form available to plants. It also offers the best environment for the bacteria that decompose plant tissue and form humus. In this pH range, all of the essential mineral nutrients are available to plants in sufficient quantities, and generally in a much greater amount than at any other pH. Also, soil having a pH within this range is more workable, because a good crumb structure is more easily maintained.

Too acid a soil means the bacteria which decompose organic matter cannot live. Manganese & aluminum are so soluble in very acid soil that they become present in amounts toxic to plants.

Strong acidity also decreases nutrient availability, and plants may literally starve to death for one essential mineral nutrient while having so much of another that it poisons them. This becomes accelerated the more you fertilize.

On the other hand, too alkaline a soil decreases nutrient availability. It causes loss of soil structure and development of "puddling". Strong alkalinity dissolves and disperses humus. "Black alkali" is caused by the accumulation of alkali and humus at the surface of the soil. Strong alkalinity causes a concentration of salts that completely inhibit plant growth.

TO RAISE OR LOWER pH OF YOUR SOIL

Raising and lowering pH is not an exact science and most plants have a reasonably wide tolerance, certainly to within 1 pH point. Consult plant pH preferences in this booklet and you will see that the majority can manage well on a pH around 6.5 but some need an alkaline soil and some a particularly acid soil. Altering pH takes time so do not expect rapid changes; rather, work steadily towards giving a plant its ideal conditions.

ADDING LIME TO INCREASE pH

Lime can be added at any time of year but it does need time to take effect – which is why the autumn, winter and early spring are the preferred times.

The two main types of lime are ground limestone and hydrated lime. Ground limestone is slower acting but more pleasant to handle. Hydrated lime may take effect in two or three months but ground chalk or limestone may take up to six months.

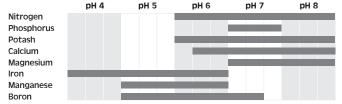
The amount of lime needed to raise a spade's depth of top soil by 1 pH varies from 5.5 oz. of hydrated lime or 7.5 oz. ground limestone on sandy soil to 11 oz. of hydrated lime or 15 oz. ground limestone on heavy clays or peaty soils per square yard. So do not expect pH correction to be too precise!

Avoid adding lime at the same time as sulfate of ammonia, superphosphate, basic slag or animal manures. Lime may be used in combination with sulfate of potash or muriate of potash.

It is because of the natural drop in pH that there is such an emphasis on adding lime. While lime stimulates the availability of most plant foods, you will see from the "pH and Plant Nutrient" table that soils should not automatically be limed because large amounts of plant food become increasingly "locked up" over pH7.

pH and Plant Nutrient Availability

pH readings at which various plant foods are most available in the soil



BENEFITS OF LIMING

- Reduces acidity, increases pH.
- Binds the fine particles of clay into larger particles and so helps aerate and drain the soil.
- Helps to retain moisture and plant foods in sandy soils.
- Balances the addition of acidic fertilizers; nitrochalk is an example.
- The lime content of soil will sometimes affect flower and foliage color. Blue & red hydrangea flowers are the most common examples.
- Supplies the plant food calcium.
- Makes nitrogen available by stimulating the micro-organisms that help decompose organic matter.
- Increases the earthworm population.
- Protects against a few diseases, such as club root in brassicas (but causes scab in potatoes) and is disliked by organisms that help decompose organic matter.

ADDING CHEMICALS AND ORGANICS TO REDUCE pH

The best way to reduce pH is to use the compost heap and farmyard manure to regularly introduce decaying humus. This not only reduces pH gradually but helps hold plant foods and moisture. Peat, relatively inert and usually only about 4% nitrogen content, is another useful soil conditioner of an acid nature.

Sulfate of ammonia and flowers of sulfur are chemical treatments and sulfate of ammonia also adds nitrogen.

While the tiny bacteria and micro-organisms work unseen in the soil, breaking down fresh organic matter into plant food, they produce acids. But if this process eventually creates too low a pH the organisms will work less efficiently, and lime is then needed as a balance and stimulant.

It is sensible to progress gradually towards a reduced pH and certainly not to expect to be able to be precise in exactly how much of a material will reduce pH by a given amount.

Avoid adding animal manures or sulfate of ammonia at the same time as lime or basic slag (a phosphate food).

HOW MUCH TO APPLY

How much to apply depends on the particle size of your soil. A sandy soil needs less lime for an equivalent pH change than a heavy clay but will not hold its pH as long.

SOIL TYPES

Sandy Soils: A light, coarse soil comprised of crumbling and alluvial debris.

Loam Soils: A medium friable soil, consisting of a blend of coarse (sand) alluvium and fine (clay) particles mixed within fairly broad limits with a little lime and humus.

Clay Soils: A heavy, clinging, impermeable soil, comprised of very fine particles with little lime and humus and tending to be waterlogged in winter and very dry in summer.

To increase soil by 1 pH (more alkaline):

Material	pH Change	Sandy	Loamy	Clay
Dolomitic or calcic limestone	+0.5 unit (0.5 pH)	2.5	5.0	5.5
	+1.0 unit (1.0 pH)	5.0	8.5	11.0
Hydrated Lime	+0.5 unit (0.5 pH)	1.5 - 2.0	3 - 4	4.0 - 4.5
	+1.0 unit (1.0 pH)	3.5 - 4.0	6.0 - 6.5	8.0 - 8.5
Iron Sulfate	-0.5 unit (0.5 pH)	0.75	1.5	2.0
	-1.0 unit (1.0 pH)	1.5	3.0	4.0
Aluminum Sulfate	-0.5 unit (0.5 pH)	0.5 - 0.75	1 - 1.25	1.5
	-1.0 unit (1.0 pH)	1 - 1.25	2.25	3.0

Amounts listed are pounds per 100 square feet. Do not add more than 5lbs. of lime or sulfur in one application.

Please note: To use Sphagnum Peat Moss to increase soil acidity, mix in up to one third total soil volume when planting acid loving plants.

GARDENING TIPS

- Altering the pH takes time. Do not expect instant changes, but work steadily towards the ideal range. Most plants have a "range" of pH. Consult your "tables" for the pH range of your plants.
- Adding lime before planting is most beneficial because it takes time to take effect. Liming in the fall, winter or early spring is preferred.
- Avoid adding lime at the same time as fertilizers whether they are organic or chemical.
- When testing a lawn, water thoroughly and push the probes into the soil up to the plastic case base.
- Use lime sparingly. It encourages weeds and worms.
 Worms then attract moles.
- · Save clippings, vegetable & fruit wastes for compost.
- Bone meal is an excellent fertilizer to be used at the time of planting.

PLANT pH PREFENCE LIST

NAME	pH RANGE	NAME	pH RANGE		ph range	NAME
FLOWERS, TREES & SHE		GOLDEN ROD	5.0 - 7.0	WATER LILY	5.5 - 6.5	HOP
ABELIA	6.0 - 8.0	GYPSOPHILIA	6.0 - 7.5	WEIGELIA	6.0 - 7.5	HUCKLEBERRY
ACACIA	6.0 - 8.0	HAWTHORN	6.0 - 7.0	WISTARIA	6.0 - 8.0	LEMON
ACANTHUS	6.0 - 7.0	HEATH	4.5 - 6.0	ZINNIA	5.5 - 7.5	LYCHEE
ACONITUM	5.0 - 6.0	HEATHER	4.0 - 6.0	VECETARIES & LIEBRO		MANGO
ADONIS	6.0 - 8.0	HELIANTHUS	5.0 - 7.0	VEGETABLES & HERBS	65.75	MELON
AGERATUM	6.0 - 7.5	HELLEBORUS	6.0 - 7.5	ARTICHOKE	6.5 - 7.5	MULBERRY
AILANTHUS	6.0 - 7.5	HOLLY	5.0 - 6.5	ASPARAGUS	6.0 - 8.0	NECTARINE
AJUGA	4.0 - 6.0	HOLLYHOCK	6.0 - 7.5	BASIL	5.5 - 6.5	PEACH
ALTHEA	6.0 - 7.5	HONEYSUCKLE	6.0 - 7.5	BEAN	6.0 - 7.5	PEAR
ALYSSUM	6.0 - 7.5	HYACINTH	6.5 - 7.5	(RUNNER, BROAD, FRENCH)		PINEAPPLE
AMARANTHUS	6.0 - 6.5	HYDRANGEA, BLUE	4.0 - 5.0	BEETROOT	6.0 - 7.5	PLUM
ANCHUSA	6.0 - 7.5	HYDRANGEA, PINK	6.0 - 7.0	BROCCOLI	6.0 - 7.0	POMEGRANATE
ANDROSACE	5.0 - 6.0	HYDRANGEA, WHITE	6.5 - 8.0	BRUSSELS SPROUTS	6.0 - 7.5	QUINCE
ANEMONE	6.0 - 7.5	HYPERICUM	5.5 - 7.0	CABBAGE	6.0 - 7.5	RASPBERRY
ANTHYLLIS	5.0 - 6.0	IRIS	5.0 - 6.5	CALABRESE	6.5 - 7.5	RHUBARB
ARBUTUS	4.0 - 6.0	IVY	6.0 - 7.5	CARROT	5.5 - 7.0	STRAWBERRY
ARENARIA	6.0 - 8.0	JUNIPER	5.0 - 6.5	CAULIFLOWER	5.5 - 7.5	WATERMELON
ARISTEA	6.0 - 7.5	KALMIA	4.5 - 5.0	CELERY	6.0 - 7.0	
ARMERIA	6.0 - 7.5	KERRIA	6.0 - 7.0	CHICORY	5. 0 - 6.5	HOUSE & GREENHOUS
ARNICA	5.0 - 6.5	LAUREL	6.5 - 7.5	CHINESE CABBAGE	6.0 - 7.5	ABUTILON
ASPERULA	6.0 - 8.0	LAVENDER	6.5 - 7.5	CHIVES	6.0 - 7.0	ACORUS
ASPHODOLINE	6.0 - 8.0	LIATRIS	5.5 - 7.5	CORN - SWEET	5.5 - 7.0	AECHMEA
ASTER	5.5 - 7.5	LIGUSTRUM	5.0 - 7.5	CRESS	6.0 - 7.0	AFRICAN VIOLET
AUBRITA	6.0 - 7.5	LILAC	6.0 - 7.5	COURGETTES	5.5 - 7.0	AGLAONEMA
AZALEA	4.5 - 6.0	LILY OF THE VALLEY	4.5 - 6.0	CUCUMBER	5.5 - 7.5	AMARYLIS
BALLOON FLOWER	6.0 - 6.5	LITHOSPERMUM	5.0 - 6.5	FENNEL	5.0 - 6.0	ANTHURIUM
BAYBERRY	4.0 - 6.0	LOBELIA	6.5 - 7.5	GARLIC	5.5 - 7.5	APHELANDRA
BERGENIA	6.0 - 7.5	LUPINUS	5.5 - 7.0	GINGER	6.0 - 8.0	ARAUCARIA
BLEEDING HEART	6.0 - 7.5	MAGNOLIA	5.0 - 6.0	HORSERADISH	6.0 - 7.0	ASPARAGUS FERN
BLUEBELL	6.0 - 7.6	MAHONIA	6.0 - 7.0	KALE	6.0 - 7.5	ASPIDISTRA
BROOM	5.0 - 6.0	MARIGOLD	5.5 - 7.0	KOHLRABI	6.0 - 7.5	AZAELA
BUDDLEIA	6.0 - 7.0	MOLINIA	4.0 - 5.0	LEEK	6.0 - 8.0	BABY'S BREATH
BUPHTHALUM	6.0 - 8.0	MORAEA	5.5 - 6.5	LENTIL	5.5 - 7.0	BABY'S TEARS
BUTTERFLY BUSH	4.0 - 6.0	MORNING GLORY		LETTUCE	6.0 - 7.0	BEGONIA
			6.0 - 7.5	MARJORAM	6.0 - 8.0	BIRD OF PARADISE
CALENDULA	5.5 - 7.0	MOSS	6.0 - 8.0			
CAMASSIA	6.0 - 8.0	MOSS, SPHAGNUM	3.5 - 5.0	MARROW	6.0 - 7.5	BISHOP'S CAP
CANDYTUFT	6.0 - 7.5	MYOSOTIS	6.0 - 7.0	MILLET	6.0 - 6.5	BLACK-EYED SUSAN
CANNA	6.0 - 8.0	NARCISSUS	6.0 - 8.5	MINT	7.0 - 8.0	BLOOD LEAF
CANTERBURY BELLS	7.0 - 7.5	NASTURTIUM	5.5 - 7.5	MUSHROOM	6.5 - 7.5	BOTTLEBRUSH
CARDINAL FLOWER	4.0 - 6.0	NICOTIANA	5.5 - 6.5	MUSTARD	6.0 - 7.5	BOUGAINVILLEA
CARNATION	6.0 - 7.5	PACHYSANDRA	5.0 - 8.0	OLIVE	5.5 - 6.5	BOXWOOD
CATALPA	6.0 - 8.0	PAEONIA	6.0 - 7.5	ONION	6.0 - 7.0	BROMELIADS
CELOSIA	6.0 - 7.0	PANSY	5.5 - 7.0	PAPRIKA	7.0 - 8.5	BUTTERFLY FLOWER
CENTAUREA	5.0 - 6.5	PASSION FLOWER	6.0 - 8.0	PARSLEY	5.0 - 7.0	CACTI
CERASTIUM	6.0 - 7.0	PASQUE FLOWER	5.0 - 6.0	PARSNIP	5.5 - 7.5	CALCAOLARIA
CHRYSANTHEMUM	6.0 - 7.0	PAULOWNIA	6.0 - 8.0	PEA	6.0 - 7.5	CALADIUM
CISSUS	6.0 - 7.5	PENSTEMON	5.5 0 7.0	PEANUT	5.0 - 6.5	CALLA LILY
CISTUS	6.0 - 7.5	PERIWINKLE	6.0 - 7.5	PECAN	4.0 - 6.0	CAMELIA
CLARKIA	6.0 - 6.5	PETUNIA	6.0 - 7.5	PEPPER	5.5 - 7.0	CAMPANULA
CLIANTHUS	6.0 - 7.5	PINKS	6.0 - 7.5	PEPPERMINT	6.0 - 7.5	CAPSICUM
CLEMATIS	5.5 - 7.0	POLYGONUM	6.0 - 7.5	PISTACHIO	5.0 - 6.0	CARDINAL FLOWER
COLCHICUM	5.5 - 6.5	POLYANTHUS	6.0 - 7.5	POTATO	4.5 - 6.0	CASTOR OIL PLANT
		POPPY		POTATO - SWEET	5.5 - 6.0	CANTURY PLANT
COLUMBINE	6.0 - 7.0	PORTULACA	6.0 - 7.5			CHINESE EVERGREEN
CONVOLVULUS	6.0 - 8.0		5.5 - 7.5	PUMPKIN	5.5 - 7.5	
COREOPSIS	5.0 - 6.0	PRIMROSE	5.5 - 6.5	RADISH	6.0 - 7.0	CHINESE PRIMROSE
CORONILLA	6.5 - 7.5	PRIMULA	6.0 - 7.5	RICE	5.0 - 6.5	CHRISTMAS CACTUS
CORYDALIS	6.0 - 8.0	PRIVET	5.0 - 7.5	ROSEMARY	5.0 - 6.0	CINERARIA
COSMOS	5.0 - 8.0	PRUNELLA	6.0 - 7.5	SAGE	5.5 - 6.5	CLERODENDRUM
COTTONEASTER	6.0 - 8.0	PRUNUS	6.5 - 7.5	SHALLOT	5.5 - 7.0	CLIVIA
CRAB APPLE	6.0 - 7.5	PYRETHRUM	6.0 - 7.5	SORGHUM	5.5 - 7.5	COCKSCOMB
CROCUS	6.0 - 8.0	RED HOT POKER	6.0 - 7.5	SOYBEAN	5.5 - 6.5	COFFEE PLANT
CYNOGLOSSUM	6.0 - 7.5	RHODODENDREN	4.5 - 6.0	SPEARMINT	5.5 - 7.5	COLEUS
DAFFODIL	6.0 - 6.5	ROSES, HYBRID TEA	5.5 - 7.0	SPINACH	6.0 - 7.5	COLUMNEA
DAHLIA	6.0 - 7.5	ROSES, CLIMBING	6.0 - 7.0	SWEDE	5.0 - 7.0	CORAL BERRY
DAY LILY	6.0 - 8.0	ROSES, RAMBLING	5.5 - 7.0	THYME	5.5 - 7.0	CRASSULA
DELPHINIUM	6.0 - 7.5	SALVIA	6.0 - 7.5	TOMATO	5.5 - 7.5	CREEPING FIG
DEUTZIA	6.0 - 7.5	SCABIOSA	5.0 - 7.5	TURNIP	5.5 - 7.0	CROTON
DIANTHUS	6.0 - 7.5	SEDUM	6.0 - 7.5	WATER CRESS	6.0 - 8.0	CROWN OF THORNS
DOGWOOD	5.0 - 7.0	SNAPDRAGON	5.5 - 7.0	WATER CRESS	5.5 - 6.0	CUPHEA
EDELWEISS				EDITIT		CYCLAMEN
	6.5 - 7.5	SNOWDROP	6.0 - 8.0	FRUIT	50 6 F	
ELAEAGNUS	5.0 - 7.5	SOAPWORT	6. 0 7.5	APPLE	5.0 - 6.5	CYPERUS
ENKIANTHUS	5.0 - 6.0	SPEEDWELL	5.5 - 6.5	APRICOT	6.0 - 7.0	DIEFFENBACHIA
EUPHORBIA	6.0 - 7.0	SPIRAEA	6.0 - 7.5	AVOCADO	6.0 - 7.5	DIPLADENIA
EVERLASTINGS	5.0 - 6.0	SPRUCE	4.0 - 5.0	BANANA	5.0 - 7.0	DIZGOTHECA
FIRETHORN	6.0 - 8.0	STOCK	6.0 - 7.5	BLACKBERRY	5.0 - 6.0	DRACAENA
FORGET-ME-NOTS	6.0 - 7.0	STONECROP	6.5 - 7.5	BLUEBERRY	4.0 - 6.0	EASTER LILY
FORSYTHIA	6.0 - 8.0	SUMACK	5.0 - 6.5	CANTALOUPE	6.5 - 7.5	ELEPHANT'S EAR
FOXGLOVE	6.0 - 7.5	SUNFLOWER	5.0 - 7.0	CHERRY	6.0 - 7.5	EPISCIA
FRITILLARIA	6.0 - 7.5	SWEET PEA	6.0 - 7.5	CRANBERRY	5.5 - 6.5	EUONYMOUS
FUCHSIA	5.5 - 7.5	SWEET WILLIAM	6.0 - 7.5	CURRENT, BLACK	6.0 - 8.0	FERNS, BIRD'S NEST
GAILLARDIA	6.0 - 7.5	TAMARIX	6.5 - 8.0	CURRENT, RED	5.5 - 7.0	FERNS, BOSTON
GAZANIA	5.5 - 7.0	TRILLIUM	5.0 - 6.5	CURRENT, WHITE	6.0 - 8.0	FERNS, BUTTON
		TULIP		DAMSON	6.0 - 7.5	FERNS, CHRISTMAS
GENTIANA	5.0 - 7.5		6.0 - 7.0			
GEUM	6.0 - 7.5	VIBERNUM	5.0 - 7.5	GOOSEBERRY	5.0 - 6.5	FERNS, CLOAK
GLADIOILI	6.0 - 7.0	VIOLA	5.5 - 6.5	GRAPEVINE	6.0 - 7.0	FERNS, FEATHER
	5.5 - 7.0	VIRGINIA CREEPER	5.0 - 7.5	GRAPEFRUIT	6.0 - 7.5	FERNS, HART'S TONGU
GLOBULARIA GODETIA	6.0 - 7.5	WALLFLOWER	5.5 - 7.5	HAZELNUT	6.0 - 7.0	FERNS, HOLLY

NAME				
HUCKLEBERRY	NAME	pH RANGE	NAME	ph range
LEMON 6.0 - 7.0 MANGO 5.0 - 6.0 MANGO 6.0 - 7.5 MULBERRY 6.0 - 7.5 MULBERRY 6.0 - 7.5 PEACH 7.0 PEACH				
LIVCHIEE 6.0 - 7.0 FIG 5.0 - 6.0 MANAGO 5.0 - 6.0 MELON 5.5 - 6.5 MELON 6.0 - 7.5 MELLOR 6.0 - 7.5 CARDENIA 5.0 - 6.0 MELLOR 6.0 - 7.5 CARDENIA 5.5 - 6.5 MELLOR 6.0 - 7.0 MELLOR 6.0 MELLOR			•	
MARCO 50 - 6.0 MULBERRY 6.0 - 7.5 MULBERRY 6.0 - 7.5 MULBERRY 6.0 - 7.5 MULBERRY 6.0 - 7.5 MECHARINE 6.0 - 7.5 PEAR 6.0 - 7.5 PULM 6.0 - 7.5 PULM 6.0 - 7.5 PEAR 6.0 - 7.5 PULM 6.0 - 7.5 PEAR 7.0 - 7.0 PEAR 7.0 - 7.0 PEAR PEAR 7.0 - 7.5 PEAR 7.0 - 7.0 PEAR 7.0 - 7.0 PEAR PEAR				
MELORY 5.5 - 6.5 MILDEBERY 6.0 - 7.5 PEACH 7.0 - 7.0 PEACH				
MULBERRY 60 - 7.5 PEACH 60 - 7.5 PILM 60 - 7.6 PILM 60				
PEACH 6.0 - 7.5 CREANIUM 5.0 - 8.0				
PEAR 6.0 - 7.5 CIDXINIA 5.5 - 6.5	NECTARINE		GENISTA	6.5 - 7.5
PINEAPPLE				
PLUM				
DOMECRANATE 5.5 - 6.5 CREVILLEA 5.5 - 6.5 RASPBERRY 5.0 - 7.5 HEDERA (IVY) 5.0 - 6.0 RIUBARB 5.5 - 7.0 HEIDTROPHUM 5.0 - 6.0 CANDAR CANDA				
OUNICE RASPBERRY S.O. 7.5 RALDBARRY S.O. 7.5 RALDBARRY S.O. 7.5 RHUBARR S.S. 7.0 RHUBARR S.S. 7.0 HENDERA (IVY) S.O. 8.0 RHUBARR S.S. 7.0 HENDERA (IVY) S.O. 8.0 HENDERA IVY S.O. 8.0 SAPATIENS S.				
RASPBERRY 5.0 - 7.5 WATERMELON 5.5 - 6.5 HENS AND CHICKENS 6.0 - 7.0 WATERMELON 5.5 - 6.5 HENS AND CHICKENS 6.0 - 7.0 JAPANESE SEDGE 6.0 - 7.0 JAPANES				
RHUBARR 5.5 - 7.0 WATERMELON 5.5 - 6.5 WATERMELON 5.5 - 6.5 WHOSE & GREENHOUSE PLANTS ABUTILON 5.5 - 6.5 ACCHIBS ACORUS 5.0 - 6.0 ACRIBA ACIDADA AC				
NATERMELON 5.5 - 6.5 HERRINGBONE PLANT 6.0 - 6.0 6				
HIBISCUS PLANT 5.0 - 6.5	STRAWBERRY	5.0 - 7.5	HENS AND CHICKENS	6.0 - 7.0
HOUSE CORRENHOUSE PLANTS ABUTILON 5.5 - 6.5 MPATIENS 5.5 -	WATERMELON	5.5 - 6.5		
ABUTILON 5.5 - 6.5 ACORUS 5.0 - 6.5 ACCHMEA 5.0 - 6.5 ACRICAN VIOLET 6.0 - 7.0 AFRICAN VIOLET 6.0 - 7.0 AFRICAN VIOLET 6.0 - 7.0 AMARYLIS 5.5 - 6.5 AMARYLIS 5.5 - 6.5 AMARYLIS 5.5 - 6.5 AMARYLIS 5.5 - 6.5 APHELANDRA 5.0 - 6.0 APHELANDRA 5.0 - 6.0 APHELANDRA 5.0 - 6.0 APHELANDRA 5.0 - 6.0 ARALOCARIA 5.0 - 6.0 ARALOCARIA 5.0 - 6.0 ASPABAGGIS FERN 6.0 - 8.0 ASPABAGGIS FERN 6.0 - 8.0 ASPABAGGIS FERN 6.0 - 7.5 BABY'S BREATH 6.0 - 7.5 BABY'S BREATH 6.0 - 7.5 BABY'S TEARS 5.0 - 6.0 BIBY'S TEARS 5.0 - 6.0 BIBY'S TEARS 5.0 - 6.0 BIBACKEYED SUSAN 5.5 - 7.0 BIRD OF PARADISE 6.0 - 6.5 BISHOP'S CAP 5.0 - 6.0 BLACKEYED SUSAN 5.5 - 7.5 BIRD OB PARADISE 6.0 - 6.5 BOTTLEBRUSH 6.0 - 7.5 BOUGAINVILLEA 5.5 - 7.5 BOUGAINVILLEA 5.5 - 7.5 BOUGAINVILLEA 5.5 - 7.5 BOUWOOD 6.0 - 7.5 BOUWOOD 6.0 - 7.5 BOUGAINVILLEA 5.5 - 7.5 BOUWOOD 6.0 - 7.5 BOUTTERFLY FLOWER 6.0 - 7.5 OCALLA DIUM 5.0 - 6.0 CALLA LILY 6.0 - 7.0 CALLAGOLRIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALCAOLARIA 5.5 - 6.5 CAMPANULA 5.5 - 6.5 CARDINAL FLOWER 6.0 - 7.5 CALCAOLARIA 6.0 - 7.0 CALLADIUM 5.0 - 6.0 CALLA LILY 6.0 - 7.0 CALLADIUM 5.0 - 6.0 CALLA LILY 6.0 - 7.0 CALLADIUM 5.0 - 6.0 CALLADIUM 5.0 - 6.0 CALLADIUM 5.0 - 6.0 CARDINAL FLOWER 6.0 - 7.5 CARDINAL				
ACORUS 5.0 - 6.5 VY TREE 6.0 - 7.0 AECHMEA 5.0 - 5.5 JACARANDA 6.0 - 7.5 JACARAN				
AECHMEA 5.0 - 5.5 ARRICAN VIOLET 6.0 - 7.0 JAPANESE SEDGE 6.0 - 8.0 ARRICAN VIOLET 6.0 - 7.0 JAPANESE SEDGE 6.0 - 8.0 ARRICAN VIOLET 6.0 - 7.0 JAPANESE SEDGE 6.0 - 8.0 ARRICAN VIOLET 6.0 - 7.0 JAPANESE SEDGE 6.0 - 8.0 ARRICAN VIOLET 6.0 S.0 - 6.0 JAPANINUM 5.5 - 7.0 AMARYLIS 5.5 - 6.5 JERUSALEM CHERRY 5.5 - 6.5 ANTHURIUM 5.0 - 6.0 APHELANDRA 5.0 - 6.0 KANGAROO THORN 6.0 - 8.0 ASPARAGUS FERN 6.0 - 8.0 KANGAROO THORN 6.0 - 8.0 ASPARAGUS FERN 4.0 - 5.5 LANTANA 5.5 - 7.0 ASPARAGUS FERN 6.0 - 7.5 LANTANA 5.5 - 7.0 ASPARAGUS FERN 6.0 - 7.5 LANTANA 5.5 - 7.0 ASPARAGUS FERN 6.0 - 7.5 LANTANA 5.5 - 7.0 BABY'S BREATH 6.0 - 7.5 LEMON PLANT 6.0 - 7.5 BABY'S TEARS 5.0 - 6.0 MIMOSA 5.0 - 6.0 BISHOP'S CAP 5.0 - 6.0 BIS				
AFRICAN VIOLET AGLAONEMA 5.0 - 6.0 AGLAONEMA 5.0 - 6.0 AGLAONEMA 5.5 - 6.5 JERUSALEM CHERRY 5.5 - 6.5 ANTHURIUM 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ASPARAGUS FERN 6.0 - 8.0 KANGAROO THORN 6.0 - 8.0 ASPARAGUS FERN 6.0 - 8.0 KANGAROO VINE 5.0 - 6.5 ASPHISTRA 4.0 - 5.5 LANTANA 5.5 - 7.0 AZAELA 4.5 - 6.0 BABY'S BREATH 6.0 - 7.5 BABY'S TEARS 5.0 - 6.0 BISHOP'S CAP BOUGAINVILLEA 5.5 - 6.5 BOUGAINVILLEA 5.5 - 6.5 BOUGAINVILLEA 5.5 - 7.5 BOWGOOD 6.0 - 7.5 BOWGOOD 6.0 - 7.5 BOWGOOD 6.0 - 7.5 BOWGOOD 6.0 - 7.5 BUTTERFLY FLOWER 6.0 - 7.5 CALLA OLLIY 6.0 - 7.6 CAMPANULA 5.5 - 6.5 BUTTERFLY FLOWER 5.0 - 6.0 CALLA OLLIY 6.0 - 7.6 CARDINAL FLOWER 5.0 - 6.0 CASTOR OLL PLANT 5				
AGLAONEMA 5.0 - 6.0 JASMINIUM 5.5 - 7.0 AMARYLIS 5.5 - 6.5 JERUSALEM CHERRY 5.5 - 6.5 AMTHURIUM 5.0 - 6.0 JESSAMONE 5.0 - 6.0 APHELANDRA 5.0 - 6.0 JESSAMONE 5.0 - 6.0 APHELANDRA 5.0 - 6.0 KALANCHOE 6.0 - 7.5 KANCAROO THORN 6.0 - 8.0 KANCAROO THORN 6.0 - 8.0 ASPARAGUS FERN 6.0 - 8.0 KANCAROO THORN 5.0 - 6.5 ASPAIDSTRA 4.0 - 5.5 LANTANA 5.5 - 7.0 AZAELA 4.5 - 6.0 LAURUS (BAY TREE) 5.0 - 6.0 BABY'S BREATH 6.0 - 7.5 LEMON PLANT 6.0 - 7.5 BECONIA 5.5 - 7.0 MIMOSA 5.0 - 7.0 MIND YOUR OWN BUSINESS 5.0 - 5.5 BIRD 0F PARADISE 6.0 - 6.5 MONSTERA 5.0 - 6.0 BLACKEYED SUSAN 5.5 - 7.5 MONSTERA 5.0 - 6.0 BLACKEYED SUSAN 5.5 - 7.5 MONSTERA 5.0 - 6.0 BUGAINVILLEA 5.5 - 7.5 MORFOLK ISLAND PINE 5.0 - 6.0 BUGAINVILLEA 5.5 - 7.5 MORFOLK ISLAND PINE 5.0 - 6.0 BUGAINVILLEA 5.5 - 7.5 MORFOLK ISLAND PINE 5.0 - 6.0 PARABUSE 6.0 - 7.5 OPLISMENUS 5.0 - 6.0 PARABUSE 6.0 - 7.5 OPLISMENUS 5.0 - 6.0 PARABUSE 6.0 - 7.5 OPLISMENUS 5.0 - 6.0 CALADIUM 5.0 - 6.0 PALMS 6.0 - 7.5 CALCAOLARIA 6.0 - 7.0 PALMS 6.0 - 7.5 CALCAOLARIA 6.0 - 7.0 PALMS 5.0 - 6.0 CALADIUM 5.0 - 6.0 CALADIUM 5.0 - 6.0 PALMS 6.0 - 7.5 CALCAOLARIA 6.0 - 7.0 PERCOCK PLANT 5.0 - 6.0 CAMPANULA 5.5 - 6.5 PILEA 6.0 - 8.0 PODACARPUS 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PALMS 6.0 - 7.5 CALCADIUM 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PALMS 6.0 - 7.5 CALCADIUM 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CALADIUM 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0 - 6.0 CARDINAL FLOWER 5.0 - 6.0 PERCOCK PLANT 5.0				
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APHELANDRA APHELANDRA ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ARAUCARIA 5.0 - 6.0 ASPIDISTRA 4.0 - 5.5 ASPIDISTRA 4.0 - 5.5 ASPIDISTRA 4.0 - 5.5 ASPIDISTRA 4.0 - 5.5 BABY'S BREATH 6.0 - 7.5 BABY'S TEARS 5.0 - 6.0 BABY'S TEARS 5.0 - 6.0 BISHOP'S CAP 5.5 - 7.0 MIND YOUR OWN BUSINESS 5.0 - 7.0 MIND YOUR OWN BUSINESS 5.0 - 6.0 BISHOP'S CAP 6.0 - 7.5 BICOD LEAF 5.5 - 6.5 BICOD LEAF 5.5 - 6.5 BOUGAINVILLEA 5.5 - 7.5 BOXWOOD 6.0 - 7.5 BOXHOOLARIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALCAOLARIA 6.0 - 7.0 CALLAOLIM 5.0 - 6.0 CALLAOLIM 5.0 - 6.0 CALLAOLIM 5.0 - 6.0 CAMPANULA 5.5 - 6.5 PEPEROMIA 5.0 - 6.0 CAPSICUM 6.0 - 7.0 CAPSICUM 6.0 - 7.0 CAPSICUM				
ARAUCARIA ASPARAGUS FERN 6.0 - 8.0 BABY'S BREATH 6.0 - 7.5 BEGONIA 5.5 - 7.0 BEGONIA 5.5 - 7.0 BIRD OF PARADISE BIRD OF PARADISE BIRD OF PARADISE BIRD OF PARADISE BILOOP LEAF BLOOP LEAF 5.5 - 6.5 BILOOP LEAF 5.5 - 6.5 BOUGAINVILLEA 5.5 - 7.5 BOUGAINVILLEA 5.5 - 6.0 BOUGAINVILLEA 5.5 - 6.				
ASPARAGUS FERN ASPIDISTRA ASPIDISTRA ASPIDISTRA A.0. 5.5 BABY'S BREATH B.0. 0.7.5 BABY'S TEARS B.0. 6.0 BABY'S TEARS B.0. 6.0 BIRD OF PARADISE BECONIA BISHOP'S CAP BISHOP'S CAP BISHOP'S CAP BISHOP'S CAP BOLOD LEAF BISHOP'S CAP BOLOD LEAF BOTTLEBRUSH				
ASPIDISTRA AZAELA AJ. 6.0 BABY'S BREATH AJ. 7.5 BABY'S TEARS BOOLONIA BIRD OF PARADISE BIRD OF PARADISE BIRD OF PARADISE BISHOP'S CAP BISHOP'S CAP BLOOD LEAF BLOOD LEAF BJ. 5.5 - 7.5 BOUGAINVILLEA 5.5 - 7.5 BOUTTERFLY FLOWER CALTI CALCAOLARIA 6.0 - 7.5 CALCAOLARIA 6.0 - 7.0 CALADIUM 5.0 - 6.0 CALLAULY 6.0 - 7.0 CALADIUM 5.0 - 6.0 CALLAULY 6.0 - 7.0 CALADIUM 5.0 - 6.0 CAMPANULA 5.5 - 6.5 PEPEROMIA 5.0 - 6.0 CASTICUM 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CASTICUM 5.0 - 6.5 CASTICUM 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CANDINAL FLOWER 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CANDARULA 5.5 - 6.5 PODACARPUS 5.0 - 6.0 CALLADIURY FLANT 5.0 - 6.5 CASTICURY FLANT 5.0 - 6.5 CANDARULY FLANT 5.0 - 6.6 CASTOR OIL PLANT 5.0 - 6.				
AZAELA A56.0 BABY'S BREATH 6.0-7.5 BEGONIA BEGONIA 5.5-7.0 BIRD OF PARADISE BISHOP'S CAP BLACKEYED SUSAN BLOOD LEAF 5.5-6.5 BOUGAINVILLEA 5.5-7.5 BUTTEBRUSH 6.0-7.5 BOUGAINVILLEA 5.5-7.5 BUTTERFLY FLOWER 6.0-7.5 BUTTERFLY FLOWER 6.0-7.5 CALLA DILIY 6.0-7.0 CALLADIUM 5.0-6.0 CALLADIUM 5.0-6.0 CALLADIUM 5.0-6.0 CAMPANULA 5.5-6.5 CARDINAL FLOWER CARDINAL FLOWER CARDINAL FLOWER CARDINAL FLOWER CARDINAL FLOWER CARDINAL FLOWER CASTOR OIL PLANT 5.0-6.0 CANDERARIA 5.0-7.5 POLIMBAGO 5.5-6.5 CHINESE EVERGREEN 5.0-6.0 CINERRAIA 5.5-7.0 CILIVIA 5.5-6.5 CHINESE PRIMROSE 6.0-7.5 COCKSCOMB 6.0-7.5 COCKSCOMB 6.0-7.0 COLENDERUM 5.0-6.0 COFFEE PLANT 5.0-6.0 CONSCOMB 6.0-7.5 CONDENDERUM 5.0-6.0 COLERD DENDRUM 5.0-6.0 COLERD DENDR				
BABY'S BREATH				
BABY'S TEARS				
BEGONIA 5.5 - 7.0 MIND YOUR OWN BUSINESS 5.0 - 5.5 BIRD OF PARADISE 6.0 - 6.5 MONSTERA 5.0 - 6.0 BISHOP'S CAP 5.0 - 6.0 MYRTLE 6.0 - 8.0 BLACK-EYED SUSAN 5.5 - 7.5 NEVER NEVER PLANT 5.0 - 6.0 BLOOD LEAF 5.5 - 6.5 NICODEMIA (INDOOR O AK) 6.0 - 8.0 BOTTLEBRUSH 6.0 - 7.5 NORFOLK ISLAND PINE 5.0 - 6.0 BOUGAINVILLEA 5.5 - 7.5 OLEANDER 6.0 - 7.5 ORFOLK ISLAND PINE 5.0 - 6.0 BOUGAINVILLEA 5.5 - 7.5 OLEANDER 6.0 - 7.5 ORFOLK ISLAND PINE 5.0 - 6.0 ORFOLK ISLA				
BISHOP'S CAP BLACK-EYED SUSAN S.5. 7.5 BLACK-EYED SUSAN S.5. 7.5 BLOOD LEAF S.5. 6.5 BOUTLEBRUSH G.0. 7.5 BOUGAINVILLEA S.5. 7.5 BOUGAINVILLEA S.5. 7.5 BOUGAINVILLEA S.5. 7.5 DILEARNUS S.0. 6.0 BROMELIADS S.0. 7.5 BOUTLEBRUSH G.0. 7.5 BOUTLEBRUSH G.0. 7.5 BOUTLEBRUSH S.0. 6.0 BROWOOD G.0. 7.5 BOWNOOD G.0. 7.5 BOWNOOD G.0. 7.5 BUTTERFLY FLOWER G.0. 7.5 BUTTERFLY FLOWER G.0. 7.0 CACTI GALCA ALIA G.0. 7.0 CALLA DIUM S.0. 6.0 CALLA LILY G.0. 7.0 CALLA DIUM S.0. 6.0 CALLA LILY G.0. 7.0 CALLADIUM S.0. 6.0 CAMPANULA S.5. 5. 6.5 CASTOR OIL PLANT S.0. 6.0 CAPSICUM S.0. 6.5 CASTOR OIL PLANT S.0. 6.0 CASTOR OIL PLANT S.0. 6.5 CASTOR OIL PLANT S.0. 6.5 CANTURY PLANT S.0. 6.5 CHRISTMAS CACTUS S.0. 6.5 CHRISTMAS CACTUS S.0. 6.5 CHRISTMAS CACTUS S.0. 6.0 CHRISTMAS CACTUS S.0. 6.0 CHRISTMAS CACTUS S.0. 6.0 CHRISTMAS CACTUS S.0. 6.0 COFFEE PLANT S.0. 6.0 COCKSCOMB G.0. 7.0 COLEUS G.			MIND YOUR OWN BUSINESS	5.0 - 5.5
BLACK-EYED SUSAN 5.5 - 7.5 NEVER NEVER PLANT 5.0 - 6.0 BLOOD LEAF 5.5 - 6.5 NICODEMIA (INDOOR OAK) 6.0 - 8.0 BOTTLEBRUSH 6.0 - 7.5 NORFOLK ISLAND PINE 5.0 - 6.0 BOUGAINVILLEA 5.5 - 7.5 OLEANDER 6.0 - 7.5 OLEANDER 6.0 - 7.5 OLEANDER 6.0 - 7.5 ORCHID 4.5 - 5.5 BUTTERFLY FLOWER 6.0 - 7.5 OXALIS 6.0 - 8.0 CACTI 4.5 - 6.0 PALMS 6.0 - 7.5 OXALIS 6.	BIRD OF PARADISE	6.0 - 6.5	MONSTERA	5.0 - 6.0
BLOOD LEAF 5.5 - 6.5 NICODEMIA (INDOOR OAK) 6.0 - 8.0 BOTTLEBRUSH 6.0 - 7.5 OLEAMDER 6.0 - 7.5 OLEAMDER 6.0 - 7.5 OPLISMENUS 5.0 - 6.0 SROMELIADS 5.0 - 7.5 OPLISMENUS 5.0 - 6.0 OPLISMENUS 6.0 - 7.5 ORCHID 4.5 - 5.5 ORCHID 4.5 - 5.5 ORCHID 4.5 - 5.5 OPLISMENUS 6.0 - 8.0 OPLISMENUS 6.0 - 7.5 OPLISMENUS 6.0 - 8.0 OPLISMENUS 6.0 - 7.5				6.0 - 8.0
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FERNS, FEATHER 5.5 - 6.5 ST. AUGUSTINE 6.5 - 7.5				
	FERNS, FEATHER FERNS, HART'S TONGUE	5.5 - 6.5 7.0 - 8.0	ST. AUGUSTINE	6.5 - 7.5

TALL FESCUE

VELVET BENT

6.0 - 7.0

5.0 - 6.0

7.0 - 8.0

4.5 - 6.0

PLANT LIGHT PREFERENCE LIST

MAXIMUM FOOT-CANDLE HOURS: 50,000, MINIMUM FOOT-CANDLE HOURS: 25,000 This category of plants will thrive in full sunlight for medium short periods. East and South exposures are preferred.

BULBS			
Agapanthus	Amaryllis	Anemone	Calla Lily
Freesia	Hoemanthus	lxia	Montbretia
Oxalis	Ranunculus	Tulbaghia	
FLOWERING PLANTS	}		
Bird Of Paradise	Chrysanthemum	Geranium	Gerbera
Gloriosa	King's Crown	Lilies	Miniature Rose
Passion Flower	Poinsettia	Shrimp Plant	
FOLIAGE PLANTS			
Agave	Aloe	Aporocactus	Astorphytum
Bamboo	Caphalocereus	Echeveria	Enchinocactus
Echinocereus	Echinopsis	Eucalyptus	Gymnocalycium
Gynura	Herbs	Iresine	Jerusalem Cherry
Kalanchoe	Lobiva	Mamillaria	Notocactus
Opuntia	Pereskia	Polyscias	Rebutia
Sedum	Stapelia		
SHRUBS			
Acalypha	Allamanda	Azalea	Bouganvillea
Citrus	Coccoloba	Croton	Flowering Maple
Hibiscus	Hydrangea	Ixora	Myrtle
Oleander	Privet	Pyracantha	Rhododendron
Stephanotis			

MAXIMUM FOOT-CANDLE HOURS: 37,500, MINIMUM FOOT-CANDLE HOURS: 20,000 This category requires bright light with little direct sunlight. East and West exposures are preferred.

BULBS Clivia Tulip	Daffodil	Hyacinth	Narcissus
FLOWERING PLANTS	S		
Cineraria	Crossandra	Cyclamen	Flame
Violet	Gloxinia	King's Crown	Lipstick Vine
Shrimp Plant			
FOLIAGE PLANTS			
Beaucarnea	Coleus	Columnea	Crassula
Dizygotheca	Euphorbia	Fatsia	Fittonia
Gynura	Haworthia	Hypoestes	Joseph's Coat
Pleomele	Rhipsalas	Rhoeo	Saxifraga
String-of-pearls	Swedish Ivy	Tomiea	Tradescantia Wax
Plant	Zebra Plant	Zebrina	
SHRUBS			
Ardisia	Aucuba	Camellia	Clerodendrum
Coffea	Dipladenia	Eleagnus	Eunonymus
Fuchsia	Gardenia	Nandina	Silk Oak

MAXIMUM FOOT-CANDLE HOURS: 27,500, MINIMUM FOOT-CANDLE HOURS: 15,000 Plants in this category thrive on bright indirect light with no direct sun light. North exposures are preferred. Subdued light by screening or a lightweight curtain will be adequate at East, South or West exposures.

BULBS Caladium			
FLOWERING PLANT	S		
Achimenes	African	Violet	Begonia
Christmas Cactus	Flowering Tobacco	Impatiens	Orchids
FOLIAGE PLANTS			
Acorus	Anthurium	Brassia	Bromeliads
Cissus	Helxine	Hypoestes	Norfolk Island

Peperomia

Pilea

MAXIMUM FOOT-CANDLE HOURS: 15,500, MINIMUM FOOT-CANDLE HOURS: 7,500
The plants in this category are best suited to dim light. Light intensities within the interior of a room away from windows are preferred.

Pellionia

Pine Pandanus

Prayer Plant

FOLIAGE PLANTS			
Asparagus Evergreen	Aspidistra	Chlorophytum	Chinese
Cyperus	Dieffenbachia	Dracena	English Ivy Ferns
Ficus Liriope	Palms	Philodendron	Pothos
Selaginella	Snake Plant	Spathiphyllum	Syngonium
SHRUBS			
Pittsoporum	Podocarpus		

Luster Leaf Products, Inc. 2220 Techcourt Woodstock, Illinois 60098