Annuals- Plants that complete their life cycle from seed to flower within a single growing season. All roots, stems, and leaves die annually. Only the dormant seed bridges the gap between generations.

Propagation- Two main methods: (Take away is the price and cultivars of each method)

1-Sexual-(Seed), Most common method of propagation. Cost effective (Cheap), disease free (virus diseases are not transmitted by seed propagation), convenient means of storage.

F₁ Hybrids-(Seed) Lots of genetic stuff here. Basically the cross between two parents with desirable traits. Hybrids exhibit disease resistance, hybrid vigor, heat tolerance, uniformity, and enhanced colors. Prodigy are not true to the original. Thus you cannot collect seed from hybrids

2-Asexual-(Cuttings, Vegetative)- Plants have the ability to regenerate parts. Stem cuttings regenerate roots. Leaf cuttings regenerate roots and shoots. Expensive to reproduce. Clone resulting in exact replication of original plant.

Impatiens Update?

Downy Mildew Disease is a water mold (more closely related to an algae than to fungi). This particular strain only infects the common garden Impatiens (Impatiens walleriana), Double Impatiens, and Balsam.

Symptoms include a speckled or yellowish look to the plant which mirrors nutritional deficiencies. The leaves will start to curl downward. As the disease progresses the undersides of the leaf will be coated with a white growth which is the spore containing structures. The leaves will then drop leaving mostly stems. The spores are very aggressive and spread rapidly. Cool moist conditions are perfect conditions for the spread of the disease. This disease is not new. The best Solution for Downy Mildew is not to plant Impatiens until breeders can produce some resistant varieties. Containers such as Hanging Baskets seem the last to be affected by the disease so if you wish to try some my suggestion is to plant high. Alternatives include Angelonia, Begonias, Caladiums, Coleus, Colocasia, Fuchsia, Lobelia, New Guinea Impatiens, Sunpatiens (a more sun tolerant New Guinea), and Torenia. Accent plants include Ipomoea (Sweet Potato), Setcreasea (Purple Heart), and Tradescantia (Wandering Jew).
Places to see Annuals

**Rutgers Gardens** 112 Ryders Lane  New Brunswick, NJ 08901  732-932-8451
http://rutgersgardens.rutgers.edu/

**Penn State Trials at Landisville PA**
Penn State Southeast Research and Extension Center
1446 Auction Road  Manheim, PA 17545
http://trialgardens.cas.psu.edu/

**Mohonk Mountain House** 1000 Mountain Rest Road New Paltz, NY 12561 845-255-1000
http://www.mohonk.com

**Longwood Gardens** 1001 Longwood Road Kennett Square, PA 19348 610-388-1000
http://www.longwoodgardens.org

**Chanticleer Garden** 786 Church Road Wayne, PA 19087 610-687-4163
http://www.chanticleergarden.org

New Varieties for 2016

Asclepias ‘Monarch Promise’

**Begonia Review**

- Fibrous Begonias
- Rex Begonias
- Angel Wing
- Hiemalis or Reiger Begonias
- Tuberous Begonias
- Hybrids (Specialized Fibrous) ‘Dragon Wing’, ‘Baby Wing’, ‘Big’
- Boliviensis ‘Bossa Nova’

Begonia Baby Wing ‘Red’, ‘Bicolor’
Begonia ‘Bossa Nova Pink Glow’, ‘Pure White’
Bidens ‘Popstar’
Bidens Beedance ‘Painted Red’, ‘Red Stripe’
Bidens ‘Campfire Fireburst’
Calibrachoa ‘Superbells Holy Moly’
Coleus ‘Party Time Pinkberry’
Dianthus Jolt ‘Pink’, ‘Cherry’
Geranium ‘Calliope Crimson Flame’
Heliotrope ‘Midnight Sky’
Lobularia ‘Raspberry Stream’
Petunia Review

Seeds:
- **Grandiflora**: Large flowers
- **Multiflora**: Medium size flowers stronger blooms than Grandiflora
- **Milliflora**: Small Flowers

**Surfinia Types** (F₁ Hybrids); **Waves**, Vigorous spreading types

Cuttings:
- **Hybrids**: Special breeding for colors and “cool”
- **Calibrachoa** (mini Petunia) Small flowers

Ride the Petunia Wave--Now serving 63 flavors (since 1995 with just Purple)

**Original Wave Series (7)**
- Blue, Lavender, Misty Lilac, Pink, Purple Imp, Purple Classic, and Rose

**Easy Wave (16)**
- Blue, Burgundy Star, Coral Reef, Neon Rose, Pink, **Pink Passion**, Plum Vein, Red, Rosy Dawn, **Silver**, White, and Violet, Velour Series: Berry, Burgundy, Red, **Yellow**.

**Tidal Wave (4)**
- Cherry, Hot Pink, Purple, **Red Velour**, and Silver

**Shockwave (8)**
- Coconut, Coral Crush, Deep Purple, Denim, Pink Shades, Pink Vein, Red, , Purple, Rose Imp, **Yellow**.

**Double Waves (8)**
- Blue Vein, Blue Velvet, Lavender, Misty Lilac, Pink, Purple, Rose, and White

**Plus Wave Mixes (18)**

Petunia **Wave Easy** ‘Pink Passion’, ‘Silver’, ‘Yellow’
Petunia **Wave Shock** ‘Yellow’
Petunia **Wave Tidal** ‘Red Velour’ (use in ground only)
Petunia **Cascadia** ‘Pitaya’
Petunia ‘Night Sky’
Strawberries (ABZ Varieties from seed) ‘Montana’, ‘Ruby Ann’
Sunpatiens ‘Compact Coral Pink’ and ‘Neon Pink’
Sunpatiens Spreading ‘Clear Orange’, ‘Lavender’, ‘Tropical Orange’
Vinca (Catharanthus) ‘Valiant Series’, ‘Cora Cascade’(not new)
Tried and True

Agastache ‘Kudos Coral, and Mandarin’, ‘Summer Love’
Angelonia ‘Serena Series’ (seed)
Angelonia 'Angel Face Blue’ (cuttings)
Canna ‘Cannova Series’ (Many different series)
Cassia Popcorn Plant
Cuphea, ‘David Verity’, ‘Vermillionaire’
Dorotheanthus ‘Mezoo’ (Replacement for Vinca Vine)
Euphorbia ‘Diamond Frost’
Ipomoea (Sweet Potato Vines)
Ornamental Peppers
Rudbeckia ‘Denver Daisy’

Unique Containers and Ground Plantings

Tiny Gardens (Fairy Gardens)
Succulents
Combination Pots
Landscape Scenes
Cut Flower Beds
Pre-Mixed Combination Pots

..............................................lots of fun stuff.