

Waypoint Analytical Plant Analysis Crop List

		Revised 4/8/2022	
Crop#	Crop Name	Growth Stage	Plant Part/Sampling Instructions
		Agronomic	
3001	Barley	Pre-boot stage	Top leaf (40+)
3002	Barley	Emergence of head from boot	Whole tops (40+ or 1 pint)
3003	Barley*	Boot stage	Top leaf (40+)
3555	Beet, Sugar	50-80 days after planting	Leaves (25+)
3566	Beet, Sugar (Petiole NO3-N)	Emergence to 9 mos. prior to harvest	Petioles (1 pint)
3567	Beet, Sugar (Petiole NO3-N)	8 mos. prior to harvest	Petioles (1 pint)
3568	Beet, Sugar (Petiole NO3-N)	7 mos. prior to harvest	Petioles (1 pint)
3569 3570	Beet, Sugar (Petiole NO3-N) Beet, Sugar (Petiole NO3-N)	6 mos. prior to harvest 5 mos. prior to harvest	Petioles (1 pint) Petioles (1 pint)
3571	Beet, Sugar (Petiole NO3-N)	2-4 mos. prior to harvest	Petioles (1 pint)
3572	Beet, Sugar (Petiole NO3-N)	0-8 weeks prior to harvest	Petioles (1 pint)
3680	Cannabis	Vegetative prior to flowering	Mature leaves from new growth (45+)
3004	Canola	Prior to flowering	Recent fully developed leaf (20+)
3006	Corn	Less than 12" (VE-V3)	Whole plant (12+ or 1 pint)
3007	Corn	Prior to tasseling (V4-VT)	Leaf below whorl (10+)
3005	Corn*	Silking (R1)	Ear leaf (10+)
3009	Corn	Maturity (R2-R5)	Earleaf (10+)
3008	Corn (NO3-N on stalks only) Corn	After black layer (R6) V1	Stalk 6" to 12" above ground (10+)
3800 3801	Corn	V2	Whole plant (12+ or 1 pint) Whole plant (12+ or 1 pint)
3802	Corn	V3	Whole plant (12+ or 1 pint) Whole plant (12+ or 1 pint)
3803	Corn	V4	Leaf below whorl (10+)
3804	Corn	V5	Leaf below whorl (10+)
3805	Corn	V6	Leaf below whorl (10+)
3806	Corn	V7	Leaf below whorl (10+)
3807	Corn	V8	Leaf below whorl (10+)
3808	Corn	V9	Leaf below whorl (10+)
3809	Corn	V10	Leaf below whorl (10+)
3810	Corn	V11	Leaf below whorl (10+)
3811 3812	Corn Corn	V12 V13	Leaf below whorl (10+) Leaf below whorl (10+)
3813	Corn	V14	Leaf below whorl (10+)
3814	Corn	V15	Leaf below whorl (10+)
3815	Corn	V16	Leaf below whorl (10+)
3816	Corn	V17	Leaf below whorl (10+)
3817	Corn	V18	Leaf below whorl (10+)
3818	Corn	VT	Leaf below whorl (10+)
3820	Corn	R2	Earleaf (10+)
3821	Corn	R3	Earleaf (10+)
3822 3823	Corn Corn	Early Dough R4	Earleaf (10+) Earleaf (10+)
3824	Corn	Early Dent	Earleaf (10+)
3825	Corn	R5	Earleaf (10+)
3603	Corn - SERA 6	Seedling less than 4 inches	Whole plant (12+ or 1 pint)
3604	Corn - SERA 6	Early Growth	Leaf below whorl (10+)
3605	Corn - SERA 6	At Tasseling	Leaf below whorl (10+)
3606	Corn - SERA 6	Tasseling/Bloom	Ear leaf (10+)
3607	Corn - SERA 6	Maturity	Ear leaf (10+)
3544	Coffee	Mature plants, flower intitiation	50 leaves (4th pair from tip)
3545 3492	Coffee Cotton	Mature plants, fruiting Pre bloom	50 leaves (4th pair from non-fruiting branches) Recent fully developed leaf (20+) (no petiole)
3010	Cotton	Early bloom	Recent fully developed leaf (20+) (no petiole)
3491	Cotton	Mid bloom	Recent fully developed leaf (20+) (no petiole)
3011	Cotton*	Late bloom	Recent fully developed leaf (20+) (no petiole)
3608	Cotton - SERA 6	Early bloom	3-5th leaf from terminal (40+) (no petiole)
3609	Cotton - SERA 6	Late bloom	3-5th leaf from terminal (40+) (no petiole)
	Cotton, Petiole (Sands)	Week before first bloom	Petiole from 4th leaf from top (60+)
3072	Cotton, Petiole (Sands)	First bloom	Petiole from 4th leaf from top (60+)
3073	Cotton, Petiole (Sands)	Bloom + 1	Petiole from 4th leaf from top (60+)
3074	Cotton, Petiole (Sands)	Bloom + 2	Petiole from 4th leaf from top (60+)
3075 3076	Cotton, Petiole (Sands)	Bloom + 3 Bloom + 4	Petiole from 4th leaf from top (60+) Petiole from 4th leaf from top (60+)
3076	Cotton, Petiole (Sands) Cotton, Petiole (Sands)	Bloom + 5	Petiole from 4th leaf from top (60+)
3077	Cotton, Petiole (Sands)	Bloom + 6	Petiole from 4th leaf from top (60+)
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3079	Cotton, Petiole (Sands)	Bloom + 7	Petiole from 4th leaf from top (60+)
3482	Cotton, Petiole (Loams +)	Week before first bloom	Petiole from 4th leaf from top (60+)
3483	Cotton, Petiole (Loams +)	First bloom	Petiole from 4th leaf from top (60+)
3484	Cotton, Petiole (Loams +)	Bloom + 1	Petiole from 4th leaf from top (60+)
3485	Cotton, Petiole (Loams +)	Bloom + 2	Petiole from 4th leaf from top (60+)
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3486	Cotton, Petiole (Loams +)	Bloom + 3	Petiole from 4th leaf from top (60+)
3487	Cotton, Petiole (Loams +)	Bloom + 4	Petiole from 4th leaf from top (60+)
3488	Cotton, Petiole (Loams +)	Bloom + 5	Petiole from 4th leaf from top (60+)
3489	Cotton, Petiole (Loams +)	Bloom + 6	Petiole from 4th leaf from top (60+)
3490	Cotton, Petiole (Loams +)	Bloom + 7	Petiole from 4th leaf from top (60+)
3856	Cotton	Emergence to First Square	Recently fully developed leaf (40+)
3857	Cotton	First square to Bloom	Recently fully developed leaf (40+)
3858	Cotton	Bloom +1 week	Recently fully developed leaf (40+) (no petiole)
3859	Cotton	Bloom +2 week	Recently fully developed leaf (40+) (no petiole)
3860	Cotton	Bloom +3 week	Recently fully developed leaf (40+) (no petiole)
3861	Cotton	Bloom +4 week	Recently fully developed leaf (40+) (no petiole)
3862	Cotton	Bloom +5 week	Recently fully developed leaf (40+) (no petiole)
3650	Flax	Flowering	Whole tops (10+)
3013	Grain Sorghum	Seedling, 20-40 days old	Whole plant (20+)
3014	Grain Sorghum	Prior to flowering	Recent fully developed leaf (20+)
3015	Grain Sorghum*	Bloom stage visible heads	Second leaf below head (20+)
3016	Grain Sorghum	Grain fill	Second leaf below head (20+)
3738	Hemp (Field, Vegetative)	Vegetative prior to flowering	Mature leaves from new growth (45+)
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3739	Hemp (Field, Flowering)	Vegetative post flowering	Mature leaves from new growth (45+)
3740	Hemp (GH, Vegetative)	Vegetative prior to flowering	Mature leaves from new growth (45+)
3741	Hemp (GH, Flowering)	Vegetative post flowering	Mature leaves from new growth (45+)
3055	Kenaf	Summer	10 stems (10 cm base section)
3017	Milo	Vegetative stage	Recent fully developed leaf (20+)
3018	Oats	Seedling to tillering	Whole plant (30+)
3019	Oats	Jointing to flag leaf	Top 2-3 leaves with stem (20+)
3020	Oats*	Flag leaf to maturity	Flag leaves (20+)
3021	Oil Palm*	Young non-fruiting trees	Leaflets from central portion of #3 frond (40+)
3022	Oil Palm	Young non-fruiting trees	Leaflets from central portion of # 17 frond (40+)
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3767	Peas, Field	Early bloom	Most recently matured compound leaf (60+)
3023	Peanuts*	Bloom stage or before	Whole tops (30+)
3024	Peanuts	Early pegging	Whole tops (25+)
3025	Popcorn	Prior to tasseling	Leaf below whorl (10+)
3026	Rice	Mid-tillering (V6-V13)	Recent fully developed leaf (20+)
3027	Rice*	Panicle initation (R0-R5)	Recent fully developed leaf (20+)
3028	Rye	Seedling to tillering	Whole plant (30+)
3029	Rye	Jointing to flag leaf	Top 2-3 leaves with stem (20+)
3030	Rye*	Flag leaf to maturity	Flag leaves (20+)
3032	Soybeans	Prior to flowering (V1-V6)	Recent fully developed leaf (25+)
3033	Soybeans	Early bloom (R1)	Recent fully developed leaf (25+)
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3031	Soybeans*	Prior to pod set (R2-R3)	Recent fully developed leaf (25+)
3034	Soybeans	Pod Fill (R4-R6)	Recent fully developed leaf (25+)
3610	Soybeans - SERA-6	Early Growth	Recent fully developed leaf (25+)
3611	Soybeans - SERA-6	Flowering	Recent fully developed leaf (25+)
3827	Soybeans	V1	Recent fully developed leaf (25+)
3828	Soybeans	V2	Recent fully developed leaf (25+)
3829	Soybeans	V3	Recent fully developed leaf (25+)
3830	Soybeans	V4	Recent fully developed leaf (25+)
3831	Soybeans	V5	Recent fully developed leaf (25+)
3832	Soybeans	V6	Recent fully developed leaf (25+)
3833	Soybeans	V7	Recent fully developed leaf (25+)
3834	Soybeans	V8	Recent fully developed leaf (25+)
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3835	Soybeans	V9	Recent fully developed leaf (25+)
3836	Soybeans	V10	Recent fully developed leaf (25+)
3837	Soybeans	R1	Recent fully developed leaf (25+)
3838	Soybeans	R2	Recent fully developed leaf (25+)
3839	Soybeans	R3	Recent fully developed leaf (25+)
3840	Soybeans	R4	Recent fully developed leaf (25+)
3841	Soybeans	R5	Recent fully developed leaf (25+)
3842	Soybeans	R6	Recent fully developed leaf (25+)
3037	Sugarcane	Spring	Leaf 3-4 from top (midrib removed) (20+)
3038	Sugarcane*	Early Summer	Leaf 3 from tip (with midrib) (15+)
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3039	Sugarcane	Late Summer	Leaf 4-6 from top (midrib removed) (20+)
3040	Sunflower	Mid-season	Recent fully mature leaf (20+)
3041	Tobacco, Burley	Seedling	Recent fully developed leaf (6+)
3042	Tobacco, Burley	Early Growth	Recent fully developed leaf (6+)
3043	Tobacco, Burley*	Flowering	Recent fully developed leaf (6+)



3044	Tobacco, Burley	Maturity	2nd leaf from the top (6+)
3056	Tobacco, Dark	Seedling	Recent fully developed leaf (6+)
3057	Tobacco, Dark	Early Growth	Recent fully developed leaf (6+)
3058	Tobacco, Dark*	Flowering	Recent fully developed leaf (6+)
3059	Tobacco, Dark	Maturity	2nd leaf from the top (6+)
3045	Tobacco, Flue-cured	Seedling	Recent fully developed leaf (6+)
3046	Tobacco, Flue-cured	Early Growth	Recent fully developed leaf (6+)
3047	Tobacco, Flue-cured*	Flowering	Recent fully developed leaf (6+)
3048	Tobacco, Flue-cured	Maturity	Recent fully developed leaf (6+)
3049	Tobacco, Flue-cured	Harvest	Upper leaf (6+)
3050	Tobacco, Flue-cured	Harvest	Middle leaf (6+)
3051	Tobacco, Flue-cured	Harvest	Lower leaf (6+)
3052	Wheat	Seedling to tillering (F1-F5)	Whole plant (30+)
3053	Wheat*	Jointing to flag leaf (F6-F10)	Top 2-3 leaves with stem (20+)
3054	Wheat	Flag leaf to maturity (F10.1 and above)	Flag leaves (20+)
		F1	
3845	Wheat		Whole plant (30+ or 1 pint)
3846	Wheat	F2	Whole plant (30+ or 1 pint)
3847	Wheat	F3	Whole plant (30+ or 1 pint)
3848	Wheat	F4	Whole plant (30+ or 1 pint)
3849	Wheat	F5	Whole plant (30+ or 1 pint)
3850	Wheat	F6	Top 2-3 leaves with stem (30+)
3851	Wheat	F7	Top 2-3 leaves with stem (30+)
3852	Wheat	F8	Top 2-3 leaves with stem (30+)
3853	Wheat	F9	Top 2-3 leaves with stem (30+)
3854	Wheat	F10	Top 2-3 leaves with stem (30+)
3855	Wheat	F10.5	Flag leaves (40+)
		Bedding	
3060	Begonia Waxleaf	Mature plants (4" pots & 36 cell pack)	Mature leaf from new growth (25+)
3061	Geranium	Mature plants (4" pots)	Mature leaf from new growth (40+)
3062	New Guinea Impatiens	Mature plants (4" pots)	Mature leaf from new growth (50+)
3063	Marigold, French	Mature plants (4° pots)	Mature leaf from new growth (40+)
3064	Marigold, African	Mature plants (36 cell pack)	Mature leaf from new growth (40+)
3065	Pansy	Mature plants (36 cell pack)	Mature leaf from new growth (50+)
3066	Petunia	Mature plants (36 cell pack)	Mature leaf from new growth (50+)
3067	Snapdragon	Mature plants (36 cell pack)	Mature leaf from new growth (50+)
3068	Vinca	Mature plants (4" pots & 36 cell pack)	Mature leaf from new growth (50+)
3634	Violet	Mature plants (36 cell pack)	Mature leaf from new growth (80+)
		Conifers	
2000	Automite - Augoriana	Conifers	Townsia at weltings (O. Oll) from O. Anna
3080	Arborvitae, American	Mid-season	Terminal cuttings (2-3") from 25 trees
3762	Cedar, Deodar	Mid-season Summer	Terminal cuttings (2-3") from 25 trees
3762 3763	Cedar, Deodar Cedar, Blue Atlas	Mid-season Summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762	Cedar, Deodar	Mid-season Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+)
3762 3763	Cedar, Deodar Cedar, Blue Atlas	Mid-season Summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald	Mid-season Summer Summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+)
3762 3763 3525 3551	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False	Mid-season Summer Summer Summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir	Mid-season Summer Summer Summer Summer Summer Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+)
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Summer Fall, after dormancy	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088 3098	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Slash Pines, Virginia	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088 3098 3098 3090 3091	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Slash Pines, White	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088 3088 3098 3090 3091 3542	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Virginia Pines, White Podocarpus	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season Summer	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings Leaves from 15 terminal cuttings
3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088 3098 3098 3090 3091 3542 3096	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Slash Pines, White Podocarpus Spruce, Blue	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Fall, after dormancy Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees
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3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3086 3088 3098 3090 3091 3542 3096 3092 3097 3095	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock,Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Slash Pines, Virginia Pines, White Podocarpus Spruce, Blue Spruce, Norway Spruce, Serbian Spruce, White Taxus	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Summer Fall, after dormancy Mid-season	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings Needles from 20 terminal cuttings Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees
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3762 3763 3525 3551 3082 3083 3084 3085 3333 3097 3095 3688 3086 3088 3098 3090 3091 3542 3096 3092 3097 3095 3090 3091 3542 3096 3092 3097 3095 3096 3099	Cedar, Deodar Cedar, Blue Atlas Cypress, Bald Cypress, False Cypress, Leyland Fir Fir, Balsam Fir, Douglas Ginkgo Hemlock, Eastern Fir, Fraser Japanese Umbrella Pine Juniper, Common Pines, Loblolly Pines, Longleaf Pines, Slash Pines, Virginia Pines, White Podocarpus Spruce, Blue Spruce, Norway Spruce, Serbian Spruce, White Taxus Yew, Common Yew, Japanese Anthurium - Greenhouse Alstroemeria - Greenhouse/field	Mid-season Summer Summer Summer Summer Mid-season Mid-season Mid-season Late summer Summer Summer Summer Fall, after dormancy Mid-season Cut Flowers Mature plants, visible bud stage Mature plants, visible bud stage Mature plants, visible bud stage	Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Mature leaf from new growth (50+) Terminal cuttings (2-3") from 25 trees Mature leaves from new growth (35+) Terminal cuttings (2-3") from 40 trees Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 25 trees Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 10 terminal cuttings Needles from 20 terminal cuttings Needles from 20 terminal cuttings Terminal cuttings (2-3") from 25 trees Terminal cuttings (2-3") from 30 plants
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3100	Gladiolus - Field production	Mature plants, visible bud stage	Most recently matured leaves (15+)
3521	Gypsophila	Mid-season	Most recently matured leaves from vegetative growth (50+)
3520	Limonium perezii (Statice)	Summer	Most recently matured leaves (25+)
3689	Lisianthus	Mid-season	Most recently matured leaf (80+)
3101	Rose, Hybrid Tea	Mid-season	Upper three leaflets from mature leaves (35+)
		Ferns	
0.1.10	A 1	_ _	
3110	Arborvitae	Summer	30 fronds from new growth
3111	Autumn	Summer	20 fronds from new growth
3112	Boston	Summer	15 fronds from new growth
3113	Christmas	Summer	20 fronds from new growth
3114	Leatherleaf	Spring to Summer	15 fronds from new growth
		Florist Pot Crop	•
		<u> </u>	
3120	African Violet	Mature plants	Mature leaves new growth - 25
3121	Chrysanthemum	Prior to bud set	4th leaf from tip (30+)
3122	Chrysanthemum	Bud set to harvest	4th leaf from tip (30+)
3123	Daisy, Gerber	Mature (flowering)	Most recently matured leaves (20+)
3124	Hydrangea	Mature (non flowering)	Most recently matured leaves (15+)
3335	Phalaenopsis	Young plants, non-flowering	Mature leaves from new growth (5+)
	•		
3336	Phalaenopsis*	Mature plants of flowering size	Mature leaves from new growth (10+)
3125	Poinsettia*	Prior to bract coloration	Most recently matured leaves (25+)
3126	Poinsettia	Bracts colored, flowering	Most recently matured leaves (25+)
		Foliage Plants	
3339	Allamanda	Summer	Mature leaves from new growth (25+)
3754	Bird of Paradise	Summer	Mature leaves from new growth (10+)
3684	Caladium	Late Spring to early summer	Fully mature leaves (15+)
3140	Chinese Evergreen Aglaonema commutatum	Mid-season	Most recent fully mature leaf (25+)
3141	Chinese Evergreen Aglaonema modestum	Mid-season	Most recent fully mature leaf (25+)
3142	Croton	Mid-season	Most recent fully mature leaf (25+)
3760	Ginger	Summer	Mature leaves from new growth (10+)
3584	Heliconia H. psittacorum	Summer	Mid section leaf strips (10+)
3143	Hibiscus	Mid-season	Most recent fully mature leaf (25+)
			<u> </u>
3069	Peony - Doesnt have ratings	Summer	Most recently mature leaf (50+)
3559	Philodendron, Heart-leaf P.scandens	Summer	Most recently matured leaves (50+)
3144	Spathiphyllum	Mature plants	Most recent fully mature leaf (25+)
3145	Spathiphyllum*	Young plants	Leaves and petioles of small plants (50+)
		Forages	
2150	Alfolfo	Drier to flewering	Ton 6" 12 plants
3150	Alfalfa	Prior to flowering	Top 6"-12 plants
3151	Alfalfa*	Bloom	Top 6"-12 plants
3151 3152	Alfalfa* Bahiagrass	Bloom 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint)
3151	Alfalfa*	Bloom	Top 6"-12 plants
3151 3152	Alfalfa* Bahiagrass	Bloom 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint)
3151 3152 3153	Alfalfa* Bahiagrass Bermudagrass, Common	Bloom 4 to 5 week old plants 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint)
3151 3152 3153 3154 3171	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+)
3151 3152 3153 3154 3171 3169	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil	Bloom 4 to 5 week old plants Prior to flowering Bloom	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants
3151 3152 3153 3154 3171 3169 3155	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint)
3151 3152 3153 3154 3171 3169 3155 3156	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+)
3151 3152 3153 3154 3171 3169 3155 3156 3157	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red Clover, Ladino	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering Prior to flowering Prior to flowering	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+) Mature leaves (50+)
3151 3152 3153 3154 3171 3169 3155 3156 3157	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red Clover, Ladino Clover, Subterranean	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering Prior to flowering Prior to flowering Prior to flowering	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+) Mature leaves (50+) Mature leaves of new growth (75+)
3151 3152 3153 3154 3171 3169 3155 3156 3157 3157 3158	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red Clover, Ladino Clover, Subterranean Clover, White	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+) Mature leaves (50+) Mature leaves (50+) Mature leaves (50+)
3151 3152 3153 3154 3171 3169 3155 3156 3157 3170 3158 3159	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red Clover, Ladino Clover, Subterranean Clover, White Coastal Bermuda	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering 4 to 5 week old plants	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+) Mature leaves (50+) Mature leaves (50+) Upper half of plant (1 pint)
3151 3152 3153 3154 3171 3169 3155 3156 3157 3157 3158	Alfalfa* Bahiagrass Bermudagrass, Common Bermudagrass, Hybrid Birdsfoot Deer Vetch Bird's-foot Trefoil Bluestem Clover, Red Clover, Ladino Clover, Subterranean Clover, White	Bloom 4 to 5 week old plants 4 to 5 week old plants 4 to 5 week old plants Prior to flowering Bloom 4 to 5 week old plants Prior to flowering	Top 6"-12 plants Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint) Whole tops (15+) Top 6"-12 plants Upper half of plant (1 pint) Whole tops (15+) Mature leaves (50+) Mature leaves of new growth (75+) Mature leaves (50+) Upper half of plant (1 pint) Upper half of plant (1 pint) Upper half of plant (1 pint)
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3181	Apricot - canning	Mid-season	Mature leaves from new growth (50+)
3182	Apricot - fresh fruit	Mid-season	Mature leaves from current growth (50+)
3183	Avocado	Mid-season	Mature leaves from current growth (50+)
3184	Banana*	6-9 months into production season	Mid-section of 3rd most recently matured leaf w/out mid-rib (15+)
3185	Banana	Harvest stage	Mid-section of 3rd most recently matured leaf w/out mid-rib (15+)
3624	Blackberry	Early summer	Mature leaves from current growth (50+)
3186	Blackberry	2-3 weeks post harvest	Mature leaves mid section of primocanes (50+)
3187	Blueberry*	Pre-bloom	Most recent fully mature leaves (1 pint)
3188	Blueberry	Post-bloom	Most recent fully mature leaves (1 pint)
	Blueberry	Mature	
3189	+		Most recent fully mature leaves (1 pint)
3687	Blueberry - GA Highbush	Pre-bloom	Most recent fully mature leaves (1 pint)
3720	Blueberry - Michigan St.	Mature	Most recent fully mature leaves (1 pint)
3190	Blueberry, Rabbiteye	Two weeks after harvest	Mature leaves mid-portion of current growth (1 pint)
3748	Breadfruit (Petioles)	Pre-flowering	Petioles from sun-exposed leaves mid-canopy (10+)
3558	Cacao - Production orchards	Mid-season	Most recently mature leaves (40+)
3742	Carambola/Starfruit	Mature	Most recently mature leaves (40+)
3660	Citrus - IFAS	Mid-season	4-6 mo old spring cycle leaves (100+)
3670	Citrus	Mid-season	4-6 mo old spring cycle leaves (100+)
3191	Cherry, sour	Mid-season	Mature leaves from current growth (50+)
3192	Cherry, sweet	Mid-season	Mature leaves from current growth (50+)
3635	Chestnuts	Mid-season	Mature leaves from current growth (50+)
3554	Cranberry	Summer	Mature leaves from current growth (100+)
3681	<u> </u>	Mid-season	
	Dragonfruit		Midsection of mature leaves from new growth (45+)
3193	Fig	Mid-summer	Mature leaves from current growth (25+)
3201	Grapes	Mid-summer	Recent mature leaves adjacent to fruit cluster (15+)
3194	Grape petioles	Full-bloom	Petioles opposite basal flower (80+)
3235	Grape petioles	July 15 to August 15	Petioles from most recently fully expanded leaf (80+)
3195	Grape, Muscadine	Mid-summer	Recent mature leaves adjacent to fruit cluster (15+)
3196	Grape, Table American Hybrids	Full-bloom	Petioles opposite basal flower (80+)
3197	Grape, Table European*	Early summer	Whole leaves opposite bunch cluster (15+)
3198	Grape, Table European	Full-bloom	Petioles opposite basal flower (80+)
3200	Grape, Wine*	Early summer	Whole leaves opposite bunch cluster (25+)
3199	Grape, Wine*	Full-bloom	Whole leaves opposite bunch cluster (25+)
3199	Grape, Wine	Full-bloom	Whole leaves opposite bunch cluster (25+)
	Grape, Wine		
3552		Veraison	Petioles opposite bunch cluster (1 pint)
3749	Grape, Wine - Oregon State	Bloom	Whole leaf opposite of basal cluster (40+)
3750	Grape, Wine - Oregon State	Veraison	Whole leaf, most recently matured (40+)
3751	Grape, Wine petioles - Oregon State	Bloom	Petiole opposite of basal cluster (1 cup)
3752	Grape, Wine petioles - Oregon State	Veraison	Petiole of most recently matured leaf (1 cup)
3202	Grapefruit	Non-fruiting-Growing season 5-7 mos.	Mature leaves from current growth (30+)
3203	Grapefruit*	Fruiting-rowing season 6-9 months	Mature leaves from current growth (30+)
3561	Guava	Late summer	3rd pair from tip on fruiting shoots (30+)
3516	Hazelnut	Mid-summer	Mature leaves from current growth (25+)
3726	Hazelnut	Bud Break (Apr 1-15)	Mature leaves from current growth (25+)
3727	Hazelnut	Early Leaf Exp (Apr 16-30)	Mature leaves from current growth (25+)
3728	Hazelnut	Early Cluster Dev (May 1-15)	Mature leaves from current growth (25+)
3729	Hazelnut	Early Shell Expansion (May 16-31)	Mature leaves from current growth (25+)
3730		· · · · · · · · · · · · · · · · · · ·	
	Hazelnut	Rapid Shell Expansion (June 1-15)	Mature leaves from current growth (25+)
3731	Hazelnut	Ovary fertilization (June 16-30)	Mature leaves from current growth (25+)
3732	Hazelnut	Kernel formation (July 1-15)	Mature leaves from current growth (25+)
3733	Hazelnut	Kernel 1/3-2/3 shell fill (July 16-31)	Mature leaves from current growth (25+)
3734			
	Hazelnut	Kernel 3/4+ fill (Aug 1-15)	Mature leaves from current growth (25+)
3735		Kernel 3/4+ fill (Aug 1-15) Mature Kernel (Aug 16-31)	
	Hazelnut		Mature leaves from current growth (25+)
3735	Hazelnut Hazelnut	Mature Kernel (Aug 16-31)	Mature leaves from current growth (25+) Mature leaves from current growth (25+)
3735 3736	Hazelnut Hazelnut Hazelnut	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+)
3735 3736 3562 3563	Hazelnut Hazelnut Hazelnut Hops Hops	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+)
3735 3736 3562 3563 3623	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+)
3735 3736 3562 3563 3623 3683	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+)
3735 3736 3562 3563 3623 3683 3204	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+)
3735 3736 3562 3563 3623 3683 3204 3205	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+)
3735 3736 3562 3563 3623 3683 3204 3205 3560	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (15+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (50+) Mature leaves from current growth (50+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (15+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (50+) Mature leaves from current growth (50+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723 3505	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen Nectarine Olive	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season Fruit set Summer	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (50+) Mature leaves from current growth (50+) Mature leaves from current growth (50+) Fully expanded leaves from midshoot (60+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723 3505 3236 3207	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen Nectarine Olive Orange, Mandarin	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season Fruit set Summer Growing season 5-7 months	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (50+) Mature leaves from current growth (50+) Mature leaves from current growth (50+) Fully expanded leaves from midshoot (60+) Mature leaves from vegetative shoots (30+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723 3505 3236 3207 3208	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen Nectarine Olive Orange, Mandarin Orange, Navel	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season Fruit set Summer Growing season 5-7 months Growing season 5-7 months	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from current growth (50+) Mature leaves from current growth (50+) Fully expanded leaves from midshoot (60+) Mature leaves from vegetative shoots (30+) Mature leaves subtending fruit (30+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723 3505 3236 3207 3208 3209	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen Nectarine Olive Orange, Mandarin Orange, Navel Orange, Navel*	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season Fruit set Summer Growing season 5-7 months Growing season 5-7 months Growing season 6-9 months. Between growth flushes	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from new growth (50+) Mature leaves from current growth (50+) Fully expanded leaves from midshoot (60+) Mature leaves from vegetative shoots (30+) Mature leaves subtending fruit (30+) Mature leaves non fruiting branches (30+)
3735 3736 3562 3563 3623 3683 3204 3205 3560 3633 3206 3723 3505 3236 3207 3208	Hazelnut Hazelnut Hazelnut Hops Hops Jackfruit Longan Lemons Lime Lychee Macadamia Nut Mango Mangosteen Nectarine Olive Orange, Mandarin Orange, Navel	Mature Kernel (Aug 16-31) Early nut drop (Sept 1-15) Vegetative pre-flower stage Full-flower Mid-season Summer Growing season 5-7 months Summer 1-2 weeks after panicle emergence Late spring to mid-summer Post-flowering Mid-season Fruit set Summer Growing season 5-7 months Growing season 5-7 months	Mature leaves from current growth (25+) Mature leaves from current growth (25+) Mature leaves from current growth (25+) Most recently matured leaf (50+) Most recently matured leaf (50+) Mature leaves from current growth (50+) Mature leaves from new growth - 2nd & 3rd leaves (30+) Mature leaves non fruiting branches (30+) Mature leaves from vegetative shoots (30+) Most recently matured leaves of flowering branches (60+) Mature leaves from new growth (60+) Mature leaves from current growth (50+) Mature leaves from current growth (50+) Fully expanded leaves from midshoot (60+) Mature leaves from vegetative shoots (30+) Mature leaves subtending fruit (30+)



3212	Orange, Sweet*	Growing season 6-9 months. Between growth flushes	Mature leaves non fruiting branches (30+)
3213	Orange, Tangerine	Growing season 5-7 months	Mature leaves from vegetative shoots (30+)
3237	Papaya	Spring	Petioles most recent mature leaves (15+)
3565	Passionfruit	Summer	Mature leaves from active growing lateral shoots (75+)
3216	Peach	Mid-season	Mature leaves from current growth (50+)
3217	Pear	Mid-season	Mature leaves from current growth (50+)
3218	Pecans	56 to 84 days after catkin fall	Middle leaflets from terminal growth (50+)
3621	Persimmon, American	Summer	Mature leaves from current growth (50+)
3622	Persimmon, Japanese	Late Summer	Mature leaves from current growth (50+)
3219	Pineapple	Inflorescence start	Developing leaves without white leaf base (20+)
3506	Pistachio	Late season (August)	Nonbearing branches midway terminal leaflets (100+)
3703	Pistachio	March 1 - March 31	Nonbearing branches midway terminal leaflets (100+)
3704	Pistachio	April 1 - April 15	Nonbearing branches midway terminal leaflets (100+)
3705	Pistachio	April 16 - April 30	Nonbearing branches midway terminal leaflets (100+)
3706	Pistachio	May 1 - May 15	Nonbearing branches midway terminal leaflets (100+)
3707	Pistachio	May 16 - May 31	Nonbearing branches midway terminal leaflets (100+)
3708	Pistachio	June 1 - June 15	Nonbearing branches midway terminal leaflets (100+)
3709	Pistachio	June 16 - June 30	Nonbearing branches midway terminal leaflets (100+)
3710	Pistachio	July 1 - July 15	Nonbearing branches midway terminal leaflets (100+)
3711	Pistachio	July 16 - July 31	Nonbearing branches midway terminal leaflets (100+)
3712	Pistachio	Aug 1 - Aug 15	Nonbearing branches midway terminal leaflets (100+)
3713	Pistachio	Aug 16 - Aug 31	Nonbearing branches midway terminal leaflets (100+)
3714	Pistachio	Sept 1 - Sept 15	Nonbearing branches midway terminal leaflets (100+)
3715	Pistachio	Sept 16 - Sept 30	Nonbearing branches midway terminal leaflets (100+)
3716	Pistachio	Oct 1 - Oct 15	Nonbearing branches midway terminal leaflets (100+)
3717	Pistachio	Oct 16 - Oct 31	Nonbearing branches midway terminal leaflets (100+)
3718	Pistachio	Nov 1 - Nov 15	Nonbearing branches midway terminal leaflets (100+)
3719	Pistachio	Nov 16 - Nov 30	Nonbearing branches midway terminal leaflets (100+)
3498	Plantain	6-9 months into production season	Mid-section of 3rd most recently matured leaf w/out mid-rib (15+)
3220	Plum	Mid-season (July)	Whole leaves from mid-shoot growth (1 pint)
3539	Pomegranate	Summer	Mature leaves from current growth (100+)
3764	Pongamia pinnata	Growing season	Mid leaflets from 25 mature leaves (100+ leaflets)
3221	Prunes	Summer	Whole leaves from mid-shoot growth (25+)
3724	Rambutan	Mid-season	Most recently mature leaves-flowering branches (50+)
3222	Raspberry, Black	2-3 weeks post harvest	Mature leaves mid section of primocanes (50+)
3223	Raspberry, Red	2-3 weeks post harvest	Mature leaves mid section of primocanes (50+)
3768	Soursop/Custard Apple	Late summer	Mature leaves from current growth (50+)
3224	Strawberry, Hill culture	Biweekly after spring growth	Most recent trifoliate (15+)
3225	Strawberry, Petiole	Biweekly after spring growth	Petiole from above trifoliate (1 pint)
3690	Strawberry - Florida	Initial harvest	Most recent mature leaf (50+)
3229	Strawberry, Plastic culture	Transplants	Most recent mature leaf (50+)
3230	Strawberry, Plastic culture	Initial flower	Most recent mature leaf (50+)
3231	Strawberry, Plastic culture	Initial harvest	Most recent mature leaf (50+)
3232	Strawberry, Plastic culture	Mid-season	Most recent mature leaf (50+)
3233	Strawberry, Plastic culture	End of season	Most recent mature leaf (50+)
9191	Walnut - Oregon/Calif	June-July	Fully expanded, Mature 2-5 month old leaves (60+)
3226	Walnut, Black	Summer	
3227		Cultimor	Mature leaves from new growth (20+)
0221	Walnut, California	Summer	Mature leaves from new growth (20+) Mature leaves from new growth (20+)
-	-		- , ,
-	Walnut, California Walnut, English	Summer Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves)
3228	Walnut, California Walnut, English	Summer Summer Fruitlet and Tuber Pennsylvar	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) Tia Lab Only
3228 3691	Walnut, California Walnut, English Apple fruitlet	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 fruitlet per tree (30 fruitlets)
3228 3691 3692	Walnut, California Walnut, English Apple fruitlet Apple fruitlet	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 A Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets)
3228 3691 3692 3693	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 ia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples)
3228 3691 3692 3693 POTA	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) nia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+)
3691 3692 3693 POTA POTA	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 In Italian Conly 1
3691 3692 3693 POTA POTA FPLT	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 In truitlet per tree (30 fruitlets) 1 In truitlet per tree (20 fruitlets) 1 In truitlet per tree (6-9 apples) 1 In truitlet per tree (6-9 apples) 1 In truitlet per tree (15+) 1 In truitlet per tree (15+) 1 Tubers (15+)
3691 3692 3693 POTA POTA FPLT	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 ia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups)
3691 3692 3693 POTA POTA FPLT	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber	Summer Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 ia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups)
3691 3692 3693 POTA POTA FPLT BLUEB	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 ia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups)
3691 3692 3693 POTA POTA FPLT BLUEB	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Herbaceous Perenni	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 ia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups)
3691 3692 3693 POTA POTA FPLT BLUEB	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint)
3691 3692 3693 POTA POTA FPLT BLUEB 3242 3612 3581	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan Canna Lily	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 If ruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint) Mature leaf from new growth (10+)
3691 3692 3693 POTA POTA FPLT BLUEB 3242 3612 3581	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan Canna Lily Coneflower, Purple - container production	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer Summer Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) nia Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint) Mature leaf from new growth (10+) Mature leaves from new growth (50+)
3228 3691 3692 3693 POTA POTA FPLT BLUEB 3242 3612 3581 3240	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan Canna Lily Coneflower, Purple - container production Daylilly	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer Summer Summer Summer Mid-season	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 fruitlet Der tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint) Mature leaf from new growth (10+) Mature leaves from new growth (50+) Most recent fully mature leaf (25+)
3691 3692 3693 POTA POTA FPLT BLUEB 3242 3612 3581 3240 3543	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan Canna Lily Coneflower, Purple - container production Daylilly Iris	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer Summer Summer Summer Mid-season Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 In Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint) Mature leaf from new growth (10+) Mature leaves from new growth (50+) Most recent fully mature leaf (25+) Mature leaf from new growth (25+)
3228 3691 3692 3693 POTA POTA FPLT BLUEB 3242 3612 3581 3240 3543 3243	Walnut, California Walnut, English Apple fruitlet Apple fruitlet Apple fruitlet Potato tuber Potato tuber Potato tuber Blueberry Black Eyed Susan Canna Lily Coneflower, Purple - container production Daylilly Iris Lillies, Crinum	Summer Fruitlet and Tuber Pennsylvar 30-50 mm 50mm-Preharvest Preharvest Immature Preharvest Post harvest Preharvest Preharvest Summer	Mature leaves from new growth (20+) Center leaflets from mature leaves (100+ leaflets taken from 25 leaves) 1 Lab Only 1 fruitlet per tree (30 fruitlets) 1 fruitlet per tree (20 fruitlets) 1 apple per tree (6-9 apples) Tubers (15+) Tubers (15+) Tubers (15+) Berries from mid height of bush (2 cups) als Most recent fully mature leaf (1 pint) Mature leaf from new growth (10+) Mature leaves from new growth (50+) Most recent fully mature leaf (25+) Mature leaf from new growth (25+) Most recent fully mature leaf (25+) Most recent fully mature leaf (25+)
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3632	Cilantro	Mid-season	Mature leaves from new growth (1 pint)
3636	Dill	Summer	Mature leaves and stems (25+)
3651	Ginseng	Growing season	Most recently matured leaves (1 pint)
3700	Jojoba	Mid-season	Most recently matured leaves (1 pint)
3527	Oregano	Summer	Most recently matured leaves and stems (1 pint)
3035	Parsley	Mid-Season	Most recently matured leaves (1 pint)
3586	Recao / Long coriander	Mid-season	Recent fully developed leaf (30+)
3682			+ ' ' '
	Rosemary	Summer	2 to 3" terminal cuttings (1 pint)
3620	Thyme (English/Silver/Common)	Summer	2 to 3" terminal cuttings (1 pint)
3686	Turmeric	Summer	Mature leaves from new growth (10+)
		Ornamental Vines and Grou	nd Covers
3250	Euonymus	Summer	2-3" terminal cuttings (1 pint)
3251	Ivy, English	Summer	Most recently matured leaves (1 pint)
3252	Jasmine, Asiatic	Summer	2-3" terminal cuttings (1 pint)
			Most recent mature leaves (1 pint)
3234	Pachysandra	Summer	
3627	Vinca minor cultivars	Summer (Container prod. Nursery)	2-3" terminal cuttings (1 pint)
3469	Wisteria sinensis (chinese)	Summer	Most recently mature leaves (30+)
		Palms	
3260	Palm, Areca	Mature plants	Most recently mature leaves of middle leaflet (10+)
3337	Palm, Christmas	Summer	Leaflets from midsection of MRM leaves (25+)
3649	•		Leaflets from midsection of MRM leaves (25+) Leaflets from midsection of MRM leaves (25+)
	Palm, Chamaedorea	Mature plants	
3334	Palm, Fishtail	Summer	Leaflets from midsection of MRM leaves (25+)
3263	Palm, Queen	Young Trees	Leaflets from central portion of #3 frond (40+)
3262	Palm, Rhapis	Mature plants	Most recently mature leaves of middle leaflet (10+)
3261	Palm, Robellini	Mature plants	Most recently mature leaves of middle leaflet (10+)
3264	Palm, Fan Washingtonia spp.	Young Trees	Leaflets from central portion of #3 frond (40+)
		Trees	
0070	A 1 0	<u>, </u>	M (
	Ash, Green	Summer	Mature leaves from new growth (10+)
3625	Aspen, Quaking	Summer	Mature leaves from new growth (50+)
3271	Bay, Loblolly	Summer	Mature leaves from new growth (15+)
3297	Beech	Summer	Mature leaves from new growth (15+)
3272	Birch, River	Summer	Mature leaves from new growth (25+)
3273	Bradford Pear	Summer	Mature leaves from new growth (25+)
3501	Buckthorn	Summer	Mature leaves from new growth (25+)
3502	Camphor	Summer	Mature leaves from new growth (20+)
3653	Catalpa	Summer	Mature leaves from new growth (20+)
3503	Cherry, Snowgoose	Summer	Mature leaves from new growth (40+)
3274	Crepe Myrtle, common*	Summer	Mature leaves from new growth (20+)
3275	Crepe Myrtle, hybrid	Summer	Mature leaves from new growth (30+)
3276	Cottonwood	Summer	Mature leaves from new growth (30+)
			· , ,
3541	Desert Willow	Summer	Mature leaves from new growth (1 pint)
3277	Dogwood flowering	Summer	Mature leaves from new growth (20+)
3278	Elm, Chinese	Summer	Mature leaves from new growth (35+)
3299	Elm, Lacebark	Summer	Mature leaves from new growth (35+)
3279	Elm, Hybrid	Summer	Mature leaves from new growth (25+)
3524	Eucalyptus	Mature	Mature leaves from new growth (25+)
9066	Ficus benjamina	Growing season	Mature leaves from new growth (1 pint)
3280	Gum, Sweet	Summer	Mature leaves from new growth (20+)
3702	Linden (Basswood)	Summer	Mature leaves from new growth (10+)
3557	Locust, Honey (Thornless)	Summer	Mature leaves from new growth (30+)
3550	Hornbeam	Summer	Mature leaves from new growth (35+)
3302	Magnolia, Japanese	Summer	Mature leaves from new growth (10+)
3281	Magnolia, Southern	Summer	Mature leaves from new growth (10+)
3282	Maple, Japanese green	Summer	Mature leaves from new growth (30+)
3298	Maple, Sugar	Summer	Mature leaves from new growth (30+)
3283	Maple, Red	Summer	Mature leaves from new growth (35+)
	•		
3284	Maple, Sugar Southern	Summer	Mature leaves from new growth (25+)
3300	Oak, Bur	Summer	Mature leaves from new growth (25+)
3285	Oak, Live	Summer	Mature leaves from new growth (25+)
3301	Oak, Nuttall	Summer	Mature leaves from new growth (25+)
3286	Oak, Pin	Summer	Mature leaves from new growth (15+)
3287	Oak, Post	Summer	Mature leaves from new growth (15+)
3288	Oak, Red	Summer	Mature leaves from new growth (15+)
3289	Oak, Sawtooth	Summer	Mature leaves from new growth (20+)
3290	Oak, White	Summer	Mature leaves from new growth (15+)
3291	Oak, Willow	Summer	Mature leaves from new growth (25+)
3526	Pistache, Chinese	Summer	Mature leaves from new growth (25+)
3295	Poplar	Summer	Mature leaves from new growth (15+)
3295	Poplar, Hybrid	Summer	Mature leaves from new growth (15+)
	† · · · · ·		Mature leaves from new growth (15+) Mature leaves from new growth (30+)
3592	Poplar, Tulip	Summer	Iniature reaves from them growth (30+)



3292 Redbud Eastern Summer Mature leaves from new growth (30+)	
Soowbell, American Systes sop. Summer Mature leaves from new growth (6+)	
Sycamore Summer Mature leaves from new growth (5+)	
Walnut, Black Summer Mature leaves from new growth (5+)	
Willow, Black Summer Mature leaves from new growth (30+)	
Sas56 Willow, Weeping Summer Mature leaves from new growth (30+)	
Turfgrasses Turfgrasses Turfgrasses Bermuda Green and tees Summer Clippings from new growth (1 pint) 3321 Bermuda Green and tees Summer Clippings from new growth (1 pint) 3322 Bermuda fairways Summer Clippings from new growth (1 pint) 3323 Bermuda lawns Summer Clippings from new growth (1 pint) 3324 Bergass, Armuda fairways Summer Clippings from new growth (1 pint) 3325 Bluegrass, Armuda Growing season Clippings from new growth (1 pint) 3326 Fencus Growing season Clippings from new growth (1 pint) 3547 Bluegrass, Rough green & tee Growing season Clippings from new growth (1 pint) 3330 Centroledgrass Growing season Clippings from new growth (1 pint) 3326 Fescuse Growing season Clippings from new growth (1 pint) 3327 Fescuse Growing season Clippings from new growth (1 pint) 3328 Fescuse, lawn Growing season Clippings from new growth (1 pint) 3329 Fescuse Jawn Growing season Clippings from new growth (1 pint) 3320 Fersouse, lawn Growing season Clippings from new growth (1 pint) 3320 Fersouse, Lawn Growing season Clippings from new growth (1 pint) 3320 Fescuse Jawn Growing season Clippings from new growth (1 pint) 3320 Fersouse, Lawn Growing season Clippings from new growth (1 pint) 3320 Fersouse Jawn Growing season Clippings from new growth (1 pint) 3321 St. Augustinegrass Summer Clippings from new growth (1 pint) 3322 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3323 St. Augustinegrass Summer Clippings from new growth (1 pint) 3324 Feach Sangard Spring Clippings from new growth (1 pint) 3325 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3326 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3327 St. Augustinegrass Summer Clippings from new growth (1 pint) 3328 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3329 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3320 Fersouse Jawn Growing Season Clippings from new growth (1 pint) 3321 Fersouse Jawn Growing Season Growing Season Growing Season Growing Sea	
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Bluegrass, Kentucky	
Bluegrass, Annual Growing season Clippings from new growth (1 pint)	
Bluegrass, Rough green & tee Growing season Clippings from new growth (1 pint)	
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Saze Ryegrass Perennial Growing season Clippings from new growth (1 pint)	
3337 Seashore paspalum green & tee Summer Clippings from new growth (1 pint)	
3327 St. Augustinegrass Summer Clippings from new growth (1 pint)	
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3582 Artichoke Early harvest (Early bloom) Most recently matured leaves (20+) 3655 Arugula Summer Fully expanded leaves (50+) 3340 Asparagus Spring Top 20" fronds 3341 Asparagus* Mid-season Top 15" of fronds (10+) 3342 Bean, Butter Summer Most recently matured leaves (10+) 3737 Bean, Dry Summer Most recently matured leaves (10+) 3344 Bean, Green Summer Most recently matured leaves (10+) 3345 Bean, Kidney Summer Most recently matured leaves (10+) 3346 Bean, Kidney Summer Most recently matured leaves (10+) 3346 Bean, Pinto Summer Most recently matured leaves (25+) 3652 Bean, Pinto Summer Most recently matured leaves (35+) 3347 Beans-Snap Summer Most recently matured leaves (35+) 3348 Beet, Table Young to bulb forming Leaf blade (40+) 3349 Beet, Table* Mid-growth Leaf blade (40+) 3350	
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3587Cabbage, ChineseMatureMost recently matured leaves (12+)3449Cabbage, NapaMaturityMost recently matured leaves (12+)3358Cantaloupe*Flower to small fruitUnfurled leaf (5th from end) (12+)3359CantaloupeSmall fruit to harvestUnfurled leaf (5th from end) (12+)3360CarrotsMid-seasonMost recently matured leaves (15+)	
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3358Cantaloupe*Flower to small fruitUnfurled leaf (5th from end) (12+)3359CantaloupeSmall fruit to harvestUnfurled leaf (5th from end) (12+)3360CarrotsMid-seasonMost recently matured leaves (15+)	
3359CantaloupeSmall fruit to harvestUnfurled leaf (5th from end) (12+)3360CarrotsMid-seasonMost recently matured leaves (15+)	
3360 Carrots Mid-season Most recently matured leaves (15+)	
3362 Carrots Mature Oldest leaf (15+)	
3363 Cauliflower Early growth to pre-heading Most recently matured leaves (20+)	
3364 Cauliflower 12 weeks to mature Most recently matured leaves (15+)	
3365 Cauliflower* Heading Most recently matured leaves (15+)	
3366 Celery 6-week old plants Petiole of recently fully developed leaf (12+)	
3367 Celery* Recent fully developed leaf (12+)	
3368 Collards Mid-season Recent fully developed leaf (12+)	
3437 Collards Harvest Most recently matured leaf (15+)	
3369 Cress Summer Fully expanded leaves (40+)	
3370 Cucumber Flower to small fruit Recent fully developed leaf (12+) 3371 Cucumber* Recent fully developed leaf (12+)	
3371 Cucumber* Small fruit to harvest Recent fully developed leaf (12+) 3372 Cucumber, Greenhouse Weekly intervals starting before first flowering Most recently matured leaves (10+)	
3372 Cucumber, Greenhouse Weekly intervals starting before first flowering Most recently matured leaves (10+) 3432 Cucumber, Seedless First flowering Most recently matured leaves (10+)	
3338 Chicory/Endive/Escarole 8 leaf stage Oldest leaves (25+)	
3602 Chicory/Endive/Escarole Mature plant, non-flowering Oldest leaves (25+)	
3373 Eggplant Flower to small fruit Blades from most recent fully developed leave	
3374 Garlic Pre-bulbing Recent fully developed leaf (12+)	ş (12+)
3375 Garlic* Bulbing Recent fully developed leaf (12+)	s (12+)
3376 Garlic Post-bulbing Recent fully developed leaf (12+)	s (12+)
3377 Greens Summer Blades from most recent fully developed leave	s (12+)



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3378	Horseradish	Through growing season	Recently mature blades with midribs (12+)
3765	Jicama	Root enlargement	Recent fully developed leaf (60+)
3379	Kale	Mid-season	Recent fully developed leaf (15+)
3380	Kale, Chinese	8-leaf stage	Most recently matured leaves (15+)
3381	Kale, Chinese	Mature	Fully expanded leaves (12+)
3146	Leeks	Mid-season to maturity	Whole tops green portion (12+)
3382	Lettuce, Boston*	8 leaf stage	Oldest leaf (12+)
3383	Lettuce, Boston	Mature	Recent fully developed leaf (20+)
3385	Lettuce, Iceberg*	Heading	Leaves from mature heads (12+)
3384	Lettuce, Iceberg	Mature	Wrapper leaves (12+)
3766	Lettuce, Romaine	8-leaf stage	Wrapper leaves (15+)
3386	Lettuce, Romaine	Mature	Wrapper leaves (12+)
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3387	Lettuce, Greenhouse	2 week intervals	Most recently matured leaves (10+)
3628	Lettuce, Midrib NO3-N	4 leaves through Pre-Harvest	Youngest fully sized leaves-Mid ribs only (50+)
3433	Melon, Honeydew	Flower to small fruit	Unfurled leaf (5th from end) (12+)
3434	Melon, Honeydew	Small fruit to harvest	Unfurled leaf (5th from end) (12+)
3388	Muskmelon	12-inch vines	Most recently matured leaves (10+)
3389	Muskmelon*	Early fruit set	Most recently matured leaves (10+)
3444	Mustard greens	Summer	Recent fully developed leaf (20+)
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3390	Okra	Early-flowering	Most recently matured leaves (20+)
3391	Onion*	1/3-1/2 grown	Whole tops, green portion (12+)
3392	Onion	1/2 to maturity	Recent fully developed leaf (12+)
3393	Onion	Mature	Whole top (12+)
3744	Onion - Univ of CA	Early season (pre-bulbing)	Tallest leaf (25+)
3745	Onion - Univ of CA	Mid season (bulbing)	Tallest leaf (25+)
3746	Onion - Univ of CA	Late season (post-bulbing)	Tallest leaf (25+)
3615	Onion - West. Fert. Hand 9th ed	Early bulbing	Tallest leaf (25+)
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3394	Onion, Vidalia	Prior to bulb enlargement	Recent fully developed leaf (12+)
3395	Peas, Black-eye/Southern/Cow	Early bloom	Most recent fully-developed trifoliate leaves (12+)
3396	Peas, English	First bloom	Most recent fully-developed leaflets (50+)
3398	Peas, Sugar	Summer	Blades from fully expanded leaves (50+)
3436	Peppers, Bell or green	Prior to bloom	Recent fully developed leaf (25+)
3399	Peppers,*Bell or green	First bloom to fruit set	Recent fully developed leaf (25+)
3435	Peppers, Bell or green	Early fruit set	Recent fully developed leaf (25+)
	 ••	1	Mature leaves from new growth (25+)
3400	Peppers, Bell or green	Fruit set to mature	3 \ /
3474	Peppers, Habanero	Prior to bloom	Recent fully developed leaf (25+)
3475	Peppers, Habanero*	First bloom to fruit set	Recent fully developed leaf (25+)
3476	Peppers, Habanero	Early fruit set	Recent fully developed leaf (25+)
3477	Peppers, Habanero	Fruit set to mature	Mature leaves from new growth (25+)
3470	Peppers, Jalapeno	Prior to bloom	Recent fully developed leaf (25+)
3471	Peppers, Jalapeno	First bloom to fruit set	Recent fully developed leaf (25+)
3472	Peppers, Jalapeno	Early fruit set	Recent fully developed leaf (25+)
		Fruit set to mature	
3473	Peppers, Jalapeno		Mature leaves from new growth (25+)
3478	Peppers, Sweet	Prior to bloom	Recent fully developed leaf (25+)
3479	Peppers, Sweet*	First bloom to fruit set	Recent fully developed leaf (25+)
3480	Peppers, Sweet	Early fruit set	Recent fully developed leaf (25+)
3481	Peppers, Sweet	Fruit set to mature	Mature leaves from new growth (25+)
3401	Potato*	Plants 30 cm tall	Recent fully developed leaf (25+)
3402	Potato	Tuber 1/2 grown	Recent fully developed leaf (25+)
3588	Potato	First blossom	Recent fully developed leaf (25+)
3589	<u> </u>		, ,
	Potato	Maturity	Recent fully developed leaf (25+)
3574	Potato petiole NO3-N only	Emergence through tuberization	Petioles most recent mature leaves (45+)
3575	Potato petiole NO3-N only	Tuberization	Petioles most recent mature leaves (45+)
3576	Potato petiole NO3-N only	Early tuber bulking	Petioles most recent mature leaves (45+)
3577	Potato petiole NO3-N only	Late tuber bulking	Petioles most recent mature leaves (45+)
3578	Potato petiole NO3-N only	Maturation	Petioles most recent mature leaves (45+)
3675	Potato petiole NO3-N only - Wisconsin	30 days after emergence	Petioles most recent mature leaves (45+)
3676	Potato petiole NO3-N only - Wisconsin	40 days after emergence	Petioles most recent mature leaves (45+)
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3677	Potato petiole NO3-N only - Wisconsin	50 days after emergence	Petioles most recent mature leaves (45+)
3678	Potato petiole NO3-N only - Wisconsin	60 days after emergence	Petioles most recent mature leaves (45+)
3679	Potato petiole NO3-N only - Wisconsin	70 days after emergence	Petioles most recent mature leaves (45+)
3403	Pumpkin / Winter squash	Mid-season	Mature leaves from new growth (12+)
3601	Radicchio	Mid-season to maturity	Oldest leaves (25+)
3406	Radish	Mid-season	Recent fully developed leaf (30+)
3407	Rhubarb	Summer	Recent fully developed leaf (10+)
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3408	Spinach	30-50 days old	Recent fully developed leaf (15+)
3409	Spinach*	Mature plants	Recent fully developed leaf (15+)
3410	Spinach, Greenhouse	2-week intervals	Most recently matured leaves (10+)
3411	Squash, Summer	Mid-season	Blades from most recent-fully developed leaves (12+)
3412	Sweet Corn	6-10" tall	Unfurled leaf, 5th from tip (10+)
3413	Sweet Corn	10-15" tall	Unfurled leaf, 5th from tip (10+)
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3414	Sweet Corn	7-8 weeks through start of tassel	Unfurled leaf, 5th from tip (10+)
3415	Sweet Corn*	Full tassel to silk	Unfurled leaf, 5th from tip (10+)
3416	Sweet Corn	End of silk	Unfurled leaf, 5th from tip (10+)
3438	Sweet Potato	Early vining	Recent fully developed leaf (15+)
3417	Sweet Potato*	Mid-season before root enlargement	Recent fully developed leaf (15+)
3439 3440	Sweet Potato Sweet Potato	Root enlargement Just before harvest	Recent fully developed leaf (15+) Recent fully developed leaf (15+)
3613	Swiss chard	1 month old	Most recently matured leaves (30+)
3614	Swiss chard	Mature	Most recently matured leaves (30+) Most recently matured leaves (30+)
3418	Tomato	Mid- bloom 1st cluster	Leaf petioles opposite or below top flower cluster (12+)
3419	Tomato	Mid- bloom 2nd cluster	Leaf petioles opposite or below top flower cluster (12+)
3420	Tomato	Mid- bloom 3rd cluster	Leaf petioles opposite or below top flower cluster (12+)
3421	Tomato	Mid- bloom 4th cluster	Leaf petioles opposite or below top flower cluster (12+)
3422	Tomato	Mid- bloom 5th cluster	Leaf petioles opposite or below top flower cluster (12+)
3423	Tomato	Mid- bloom 6th cluster	Leaf petioles opposite or below top flower cluster (12+)
3424	Tomato*	Mid-bloom	Compound leaves adjacent top inflorescences (15+)
3425	Tomato	Initial fruit	Compound leaves opposite top cluster (15+)
3426	Tomato	Mature	Compound leaves opposite top cluster (15+)
3445	Tomato, Cherry	First flower	Leaf petioles opposite or below top flower cluster (12+)
3427	Tomato greenhouse	Weekly intervals starting 2 weeks before flowering	Most recently matured leaves (10+)
3446	Tomato, Roma	First flower	Leaf petioles opposite or below top flower cluster (12+)
3447	Tomato, Round	First flower	Leaf petioles opposite or below top flower cluster (12+)
3448	Tomato, Tomatillo	First flower	Leaf petioles opposite or below top flower cluster (12+)
3428	Tomato, Trellis	2-week intervals starting 2 weeks before flowering	Most recently matured leaves (10+)
3441	Turnip greens	Mid-season	Most recently matured leaves (12+)
3631	Watercress	Middle of growing season	Mature leaves from new growth (1 pint)
3429	Watermelon	First flower	Most recently matured leaves (25+)
3430	Watermelon*	Layby	Most recently matured leaves (25+)
3442	Watermelon	First fruit	Most recently matured leaves (25+)
3443	Watermelon	Harvest stage	Most recently matured leaves (25+)
3496	Winter Greens	Mid-season	Most recently matured leaves (25+)
3431	Zucchini	Mature plants non-fruiting	Most recently matured leaves (12+)
		Woody Ornamental Sh	rubs
3303	Ahelia Glossy	Summer	
3303 3450	Abelia, Glossy Azalea	Summer Mid-season	2-3" terminal cuttings (30+)
3450	Azalea	Mid-season	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+)
3450 3538	Azalea Beauty berry, American	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+)
3450	Azalea Beauty berry, American Boxwood, Common	Mid-season	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+)
3450 3538 3451	Azalea Beauty berry, American	Mid-season Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+)
3450 3538 3451 3466	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid	Mid-season Summer Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+)
3450 3538 3451 3466 3553	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem	Mid-season Summer Summer Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+)
3450 3538 3451 3466 3553 3725	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush	Mid-season Summer Summer Summer Summer Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+)
3450 3538 3451 3466 3553 3725 3463	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia	Mid-season Summer Summer Summer Summer Summer Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+)
3450 3538 3451 3466 3553 3725 3463 3585	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea	Mid-season Summer Summer Summer Summer Summer Summer Summer Summer Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp.	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+) Most recently fully developed leaves (1 pint)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (85+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+) Most recently fully developed leaves (1 pint) Mature leaves from new summer growth (40+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304 3467	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English Laurel, Mountain	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+) Most recently fully developed leaves (1 pint) Mature leaves from new summer growth (40+) Most recently matured leaves (25+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304 3467 3456	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English Laurel, Mountain Ligustrum	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (30+) 2-3" terminal cuttings (30+) Most recently fully developed leaves (1 pint) Mature leaves from new summer growth (40+) Most recently matured leaves (25+) Most recently matured leaves (25+) Most recently matured leaves (25+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304 3467 3456 3465	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English Laurel, Mountain Ligustrum Loropetalum, Chinese	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently fully developed leaves (1 pint) Mature leaves from new summer growth (40+) Most recently matured leaves (25+) Most recently matured leaves (25+) Most recently matured leaves (25+) 2-3" terminal cuttings (30+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304 3467 3466 3465 3464	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English Laurel, Mountain Ligustrum Loropetalum, Chinese Nandina domestica - Heavenly bamboo	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (65+) Most recently matured leaves (80+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (1 pint) Mature leaves from new summer growth (40+) Most recently matured leaves (25+) Most recently matured leaves (25+) Most recently matured leaves (25+) 2-3" terminal cuttings (30+) Most recently matured leaves (25+) Most recently matured leaves (25+) Most recently matured leaves (20+)
3450 3538 3451 3466 3553 3725 3463 3585 3530 3452 3517 3453 3462 3454 3461 3455 3579 3304 3467 3466 3465 3464 3460	Azalea Beauty berry, American Boxwood, Common Boxwood, Korean Hybrid Boxwood, Winter Gem Butterfly Bush Camellia Dodonaea Eugenia spp. Euonymus, variegated Gardenia, common Hawthorn, Indian Holly, American Holly, Buford Holly, Nellie Stevens Holly, Yaupon Lantana Laurel, English Laurel, Mountain Ligustrum Loropetalum, Chinese Nandina domestica - Heavenly bamboo Pittosporum	Mid-season Summer	2-3" terminal cuttings (30+) Mature leaves from new summer growth (40+) Mature leaves from new summer growth (40+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) 2-3" terminal cuttings (30+) Most recently matured leaves (50+) Most recently matured leaves (30+) Most recently matured leaves (65+) Most recently matured leaves (30+) 2-3" terminal cuttings (25+) Most recently matured leaves (1 pint) Mature leaves from new summer growth (40+) Most recently matured leaves (25+) Most recently matured leaves (25+) 2-3" terminal cuttings (30+) Most recently matured leaves (25+) 2-3" terminal cuttings (30+) Most recently matured leaves (25+) 2-3" terminal cuttings (30+) Most recently matured leaves (20+) Most recently matured leaves (40+)
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