

# **Annex 1**

## Inventory of Miscellaneous Bee Flora

More than one thousand plant species of various agricultural, horticultural, and forage crops; ornamental plants; and various wild herbs, shrubs, and forest trees are known sources of nectar and pollen. Some of these plants are major sources of nectar and pollen and contribute to the main honey flows. Others act as medium sources and provide nectar and pollen for the development of bee colonies before the main flow season, e.g., during the early spring season. From this flow, brood-rearing is geared up and the colonies become strong. Under favourable soil and climatic conditions, these plants produce surplus nectar and beekeepers who have strong colonies can harvest a good crop of honey. There are still other plants which do not produce surplus nectar and pollen but provide enough forage for bees to survive during dearth periods (i.e., during dry summer and cold winter). These major, medium, and minor sources of nectar and pollen are useful for beekeeping. A general inventory of important plants of the Hindu Kush-Himalayan region, which are most commonly visited by honeybees for their nectar and pollen, is given below.

**An Inventory of Important Honey Plants of the Hindu-Kush Himalayan Region**  
(Families are arranged according to their importance as sources of bee food/honey)

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Acanthaceae</b>			
<i>Adhatoda vasica</i> (Basak; Shrub)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<i>Justicia pubigera</i> (Bankas; Herb)	S. Temperate, Temperate	Aug-Oct	N <sup>2</sup> P <sup>2</sup>
<i>Phlogacanthus pubinervis</i> (Phlogacanthus, Shrub)	S. Tropical, S. Temperate	Jul-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Rungia parviflora</i> (Rungia; Herb)	S. Tropical, S. Temperate	Jul-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Strobilanthes wallichii</i> (Strobilanthes; Herb)	S. Temperate, Temperate	Aug-Oct	N <sup>3</sup> P <sup>3</sup>
<b>Aceraceae</b>			
<i>Acer accuminatum</i> (Maple; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Acer caesium</i> (Maple; Tree)	S. Temperate, Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<i>Acer negundo</i> (Maple; Tree)	S. Temperate, Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Acer oblongum</i> (Maple; Tree)	S. Temperate, Temperate	Feb-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Acer pentapomicum</i> (Maple; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Acer pictum</i> (Maple; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<b>Agavaceae</b>			
<i>Agave americana</i> (Century Plant; Shrub)	S. Tropical	Sept-Nov	N <sup>3</sup> P <sup>3</sup>
<i>Yucca sativa</i> (Adam's Needle; Shrub)	S. Tropical	June-Sept	N <sup>2</sup> P <sup>2</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Amaranthaceae</b>			
<i>Amaranthus cruentus</i> (Garden Amaranth; Herb)	S. Tropical, S. Temperate	Aug-Sept	N <sup>3p3</sup>
<i>Amaranthus lividus</i> (Wild Amaranth; Herb)	S. Tropical, S. Temperate	Jul-Aug	N <sup>3p3</sup>
<i>Amaranthus paniculatus</i> (Amaranth; Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>3p2</sup>
<i>Amaranthus spinulosus</i> (Spiny Amaranth; Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>3p1</sup>
<b>Amaryllidaceae</b>			
<i>Allium cepa</i> (Onion; Herb)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>2p3</sup>
<i>Allium sativum</i> (Garlic; Herb)	S. Tropical, S. Temperate, Temperate	May-June	N <sup>3p3</sup>
<b>Anacardiaceae</b>			
<i>Choerospondias axillaris</i> (Lapsi; Tree)	S. Tropical, S. Temperate	Mar-Apr	N <sup>2p2</sup>
<i>Mangifera indica</i> (Mango; Tree)	S. Tropical	Feb-Mar	N <sup>2p3</sup>
<i>Ocotea woodii</i> (Karambal; Tree)	S. Tropical, S. Temperate	Feb-Apr	N <sup>2p3</sup>
<i>Rhus javanica</i> (Sumac; Tree)	S. Tropical, S. Temperate	Sept-Oct	N <sup>2p2</sup>
<i>Rhus succedanea</i> (Sumac; Tree)	S. Temperate, Temperate	May-June	N <sup>2p2</sup>
<i>Rhus verniciflua</i> (Sumac; Tree)	S. Tropical, Temperate	May-June	N <sup>1p1</sup>
<i>Rhus wallichii</i> (Sumac; Tree)	S. Tropical, Temperate	Apr-May	N <sup>2p2</sup>
<b>Apiaceae</b>			
<i>Coriandrum sativum</i> (Coriander; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>3p3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/Pollen Potential
<i>Daucus carota</i> (Carrot; Herb)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>2</sup> P <sup>3</sup>
<i>Foeniculum vulgare</i> (Fennel; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Heracleum</i> spp (Hogweed; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul	N <sup>3</sup> P <sup>3</sup>
<b>Apocynaceae</b>			
<i>Carrissa caranda</i> (Karandas; Shrub)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<b>Areaceae</b>			
<i>Phoenix</i> spp (Wild Date Palm; Shrub)	S. Tropical, Temperate	May-Jul	N <sup>2</sup> P <sup>3</sup>
<b>Asclepiadaceae</b>			
<i>Asclepias curassavica</i> (Milkweed; Shrub)	S. Tropical, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<b>Asteraceae</b>			
<i>Ageratum conyzoides</i> (Ageratum; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Nov	N <sup>3</sup> P <sup>3</sup>
<i>Artemisia mariitima</i> (Mugwort; Herb)	S. Temperate, Temperate	Aug-Oct	N <sup>3</sup> P <sup>3</sup>
<i>Aster</i> spp (Starwort; Herb)	S. Tropical, S. Temperate, Temperate	Oct-Nov	N <sup>3</sup> P <sup>3</sup>
<i>Bidens</i> spp (Spanish Needle; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Dec	N <sup>3</sup> P <sup>2</sup>
<i>Calendula officinalis</i> (Marigold; Herb)	S. Tropical, S. Temperate	Feb-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Callistephus chinensis</i> (Chinese Aster; Herb)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>3</sup> P <sup>3</sup>
<i>Cardus onopardioides</i> (Musk Thistles; Herb)	S. Tropical, S. Temperate, Temperate	May-Aug	N <sup>2</sup> P <sup>2</sup>
<i>Carthamus tinctorius</i> (Safflower; Herb)	S. Tropical, S. Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Centaurea cyanus</i> (Cornflower; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Apr	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Chrysanthemum segetum</i> (Chrysanthemum; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Cichorium intybus</i> (Chicory; Herb)	S. Tropical, S. Temperate, Temperate	May-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Cineraria hybrida</i> (Cineraria; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>3</sup> P <sup>3</sup>
<i>Cirsium verutum</i> (Field Thistles, Herb)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<i>Cirsium wallichi</i> (Field Thistles, Herb)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Cosmos sulphureus</i> (Cosmos; Herb)	S. Tropical, S. Temperate, Temperate	Oct-Nov	N <sup>2</sup> P <sup>2</sup>
<i>Dahlia pinnata</i> (Dahlia; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Jan	N <sup>2</sup> P <sup>2</sup>
<i>Echinops echinatus</i> (Globe Thistle; Herb)	Temperate	May-June	N <sup>3</sup> P <sup>3</sup>
<i>Eupatorium glandulosum</i> (Thoroughwort; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Guizotia abyssinica</i> (Niger; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sup>2</sup>
<i>Helianthus annuus</i> (Sunflower; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Sept	N <sup>1</sup> P <sup>1</sup>
<i>Helichrysum arenarium</i> (Paper Flower; Herb)	S. Tropical, S. Temperate	Feb-June	N <sup>2</sup> P <sup>3</sup>
<i>Inula cappa</i> (Inula; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Feb	N <sup>3</sup> P <sup>1</sup>
<i>Lactuca sativa</i> (Lettuce; Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>3</sup> P <sup>2</sup>
<i>Mikania scandens</i> (Mikania; Climber)	S. Tropical	Mar-Apr	N <sup>2</sup> P <sup>3</sup>
<i>Senecio scandens</i> (Ragwort; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Solidago longifolia</i> (Golden Rod; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Sonchus asper</i> (Saw Thistle; Herb)	S. Tropical, S. Temperate, Temperate	June-Oct	N <sup>3</sup> P <sup>3</sup>
<i>Tagetes erectus</i> (Marigold; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Oct	N <sup>3</sup> P <sup>3</sup>
<i>Taraxacum officinale</i> (Dandelion; Herb)	S. Tropical, S. Temperate, Temperate	Feb-May	N <sup>1</sup> P <sup>1</sup>
<i>Tussilago farfara</i> (Coltsfoot; Herb)	S. Tropical, S. Temperate	Apr-June	N <sup>3</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/Pollen Potential
<i>Veronia</i> spp (Ironweed; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Zinnia elegans</i> (Zinnia; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sup>2</sup>
<b>Araliaceae</b>			
<i>Schefflera impressa</i> (Tree)	S. Temperate, Temperate	Aug-Sept	N <sup>1</sup>
<i>Schefflera octophylla</i> (Small Tree)	S. Tropical, S. Temperate	Oct-Jan	N <sup>1</sup>
<i>Schefflera venulosa</i> (Climbing Shrub)	S. Tropical, S. Temperate, Temperate	Jan-May	N <sup>1</sup>
<b>Balsaminaceae</b>			
<i>Impatiens balsamina</i> (Pink Balsam; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>1</sup> P <sup>2</sup>
<i>Impatiens glandulifera</i> (Balsam; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Sept	N <sup>2</sup> P <sup>2</sup>
<b>Berberidaceae</b>			
<i>Berberis aristata</i> (Barberry; Shrub)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<i>Berberis asiatica</i> (Barberry; Shrub)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>2</sup> P <sup>2</sup>
<i>Berberis lycium</i> (Barberry; Shrub)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<i>Mahonia nepaulensis</i> (Mahonia; Shrub)	S. Tropical, S. Temperate, Temperate	Dec-Feb	N <sup>2</sup> P <sup>2</sup>
<b>Betulaceae</b>			
<i>Corylus colurna</i> (Hazelnut; Tree)	S. Tropical, Temperate	Mar-May	P <sup>2</sup>
<b>Bignoniaceae</b>			
<i>Campsis grandiflora</i> (Trumpet Vine; Climber)	S. Tropical, S. Temperate	May-Aug	N <sup>2</sup> P <sup>3</sup>
<i>Jacaranda mimosifolia</i> (Jacaranda; Tree)	S. Tropical, S. Temperate	May-June	N <sup>3</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Bombacaceae</b>			
<i>Bombax ceiba</i> (Silk Cotton Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<b>Boraginaceae</b>			
<i>Borago officinalis</i> (Borage; Herb)	S. Tropical, S. Temperate	Feb-Sept	N <sup>1</sup> P <sup>1</sup>
<i>Cynoglossum amabile</i> (Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>1</sup> P <sup>2</sup>
<i>Cynoglossum glochidiatum</i> (Hounds Tongue; Herb)	S. Tropical	Jul-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Echium vulgare</i> (Blue Thistle; Herb)	S. Tropical, S. Temperate	Jan-June	N <sup>1</sup> P <sup>2</sup>
<i>Ehretia acuminata</i> (Ivory Wood; Tree)	S. Tropical, S. Temperate	Mar-Apr	N <sup>1</sup> P <sup>2</sup>
<i>Symphytum peregrinum</i> (Symphytum; Herb)	S. Tropical, S. Temperate	June-Sept	N <sup>2</sup> P <sup>2</sup>
<b>Brassicaceae</b>			
<i>Brassica campestris</i> (Mustard; Herb)	S. Tropical, S. Temperate, Temperate	Dec-May	N <sup>1</sup> P <sup>1</sup>
<i>B. campestris</i> var. <i>dichotoma</i> (Brown Sarson; Herb)	S. Tropical, S. Temperate, Temperate	Oct-Dec	N <sup>1</sup> P <sup>1</sup>
<i>B. campestris</i> var. <i>sarson</i> (Sarson; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Brassica juncea</i> (Indian Mustard; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Brassica napus</i> var. <i>glauca</i> (Rape; Herb)	S. Tropical, S. Temperate, Temperate	Dec-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Brassica napus</i> var. <i>toria</i> (Toria; Herb)	S. Tropical, S. Temperate, Temperate	Dec-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Brassica nigra</i> (Black Mustard; Herb)	S. Tropical, S. Temperate, Temperate	Nov-May	N <sup>1</sup> P <sup>1</sup>
<i>Brassica oleracea</i> var. <i>capitata</i> (Cabbage; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>

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<i>Brassica oleracea</i> var. <i>botrytis</i> (Cauliflower; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Brassica rapa</i> (Turnip; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Cardamine</i> spp (Cardamine; Herb)	S. Tropical, S. Temperate	Jan-Feb	N <sup>2</sup> P <sup>2</sup>
<i>Eruca sativa</i> (Rocket Salad; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Raphanus sativus</i> (Radish; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<b>Buddleiaceae</b>			
<i>Buddleia asiatica</i> (Tree)	S. Tropical, S. Temperate	Feb-Mar	N <sup>2</sup> P <sup>3</sup>
<b>Cactaceae</b>			
<i>Opuntia</i> spp (Prickly Pear; Shrub)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<b>Cannabaceae</b>			
<i>Cannabis sativa</i> (Hemp; Herb)	S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sup>2</sup>
<b>Capparidaceae</b>			
<i>Capparis himalensis</i> (Kanthar; Climber)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>3</sup> P <sup>3</sup>
<i>Crataeva religiosa</i> (Barna; Tree)	S. Tropical, S. Temperate	Apr-May	N <sup>2</sup> P <sup>3</sup>
<b>Caprifoliaceae</b>			
<i>Dianthus caryophyllus</i> (Carnation; Herb)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>3</sup> P <sup>3</sup>



Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Lonicera sempervirens</i> (Honey Suckle; Climber)	S. Tropical, S. Temperate	May-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Viburnum</i> spp (Vikurum; Shrub)	S. Tropical, S. Temperate	May-June	N <sup>3</sup> P <sup>3</sup>
<b>Caricaceae</b>			
<i>Carica papaya</i> (Papaya; Tree)	S. Tropical	May	N <sup>1</sup> P <sup>1</sup>
<b>Chenopodiaceae</b>			
<i>Chenopodium album</i> (Goose Foot; Herb)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<i>Spinacea oleracea</i> (Spinach; Herb)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<b>Convolvulaceae</b>			
<i>Convolvulus arvensis</i> (Convolvulus; Climber)	S. Tropical, S. Temperate, Temperate	Apr-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Ipomoea batatas</i> (Sweet Potato; Climber)	S. Tropical, S. Temperate, Temperate	Aug-Nov	N <sup>2</sup> P <sup>3</sup>
<i>Ipomoea pulchella</i> (Railway Creeper; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Nov	N <sup>3</sup> P <sup>3</sup>
<i>Cuscuta reflexa</i> (Amar-Bel; Parasitic Herb)	S. Tropical, S. Temperate, Temperate	Jul-Oct	P <sup>3</sup>
<b>Combretaceae</b>			
<i>Terminalia arjuna</i> (Arjun; Tree)	S. Tropical, S. Temeperate	Apr-June	N <sup>1</sup> P <sup>1</sup>
<i>Terminalia belerica</i> (Myrobalan; Tree)	S. Tropical, S. Temeperate	Apr-May	N <sup>1</sup> P <sup>1</sup>
<i>Terminalia chebula</i> (Yellow Myrobalan; Tree)	S. Tropical, S. Temeperate	Apr-May	N <sup>1</sup> P <sup>1</sup>

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<b>Cucurbitaceae</b>			
<i>Benincasa hispida</i> (Petha; Climber)	S. Tropical	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Citrullus vulgaris</i> (Watermelon, Climber)	S. Tropical	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Cucumis sativus</i> (Cucumber; Climber)	S. Tropical, S. Temperate	June-Sept	N <sup>1</sup> P <sup>1</sup>
<i>Cucurbita pepo</i> (Pumpkin; Climber)	S. Tropical, S. Temperate	Apr-May	N <sup>1</sup> P <sup>1</sup>
<i>Cucurbita maxima</i> (Pumpkin; Climber)	S. Tropical, S. Temperate	Feb-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Cucurbita moschata</i> (Pumpkin; Climber)	S. Tropical, S. Temperate	Apr-Sept	N <sup>1</sup> P <sup>1</sup>
<i>Lagenaria siceraria</i> (Bottle Gourd; Climber)	S. Tropical, S. Temperate	Jul-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Luffa cylindrica</i> (Ridged Gourd; Climber)	S. Tropical, S. Temperate	Jul-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Momordica charantia</i> (Bitter Gourd; Climber)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Sechium edule</i> (Chayote; Climber)	S. Tropical, S. Temperate	Jul-Nov	N <sup>2</sup> P <sup>2</sup>
<b>Dipsacaceae</b>			
<i>Dispsacus inermis</i> (Teasel; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Oct	N <sup>3</sup> P <sup>3</sup>
<i>Scabiosa speciosa</i> (Scabious; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul	N <sup>2</sup> P <sup>3</sup>
<b>Dipterocarpaceae</b>			
<i>Shorea robusta</i> (Sal; Tree)	S. Tropical, S. Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<b>Ebenaceae</b>			
<i>Diospyros kaki</i> (Persimmon; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<b>Elaeagnaceae</b>			
<i>Elaeagnus angustifolia</i> (Oleaster; Tree)	S. Tropical, S. Temperate, Temperate	Mar-June	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Elaeocarpaceae</b> <i>Elaeocarpus</i> spp (Elaeocarpus; Tree)	S. Tropical, S. Temperate	June	N <sup>3</sup> P <sup>3</sup>
<b>Ericaceae</b> <i>Gaultheria fragrantissima</i> (Fragrant Gaultheria; Shrub) <i>Rhododendron arboreum</i> (Alpine Rose)	Temperate S. Temperate; Temperate	May-June Feb-Mar	N <sup>2</sup> P <sup>2</sup> N <sup>1</sup> P <sup>1</sup>
<b>Euphorbiaceae</b> <i>Embilica officinalis</i> (Indian Gooseberry; Tree) <i>Euphorbia royleana</i> (Euphorbia; Shrub) <i>Hevea brasiliensis</i> (Rubber Tree) <i>Jatropha curcas</i> (Jatropha; Shrub) <i>Phyllanthus acidus</i> (Star Goose Berry; Shrub) <i>Poinsettia pulcherrima</i> (Poinsettia; Shrub) <i>Ricinus communis</i> (Caster Oil Plant; Shrub) <i>Sapium discolor</i> (Small Tree) <i>Sapium sebiferum</i> (Tree)	S. Tropical S. Tropical, S. Temperate S. Tropical S. Tropical, S. Temperate S. Tropical, S. Temperate S. Tropical, S. Temperate S. Tropical, S. Temperate S. Tropical, S. Temperate S. Tropical S. Tropical, S. Temperate	Mar-May Apr-Jul Mar-Jul Apr-Jul Apr-June Jan-Feb May-Aug May-June Jul-Aug	N <sup>2</sup> P <sup>2</sup> N <sup>3</sup> P <sup>3</sup> N <sup>1</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>2</sup> P <sup>2</sup> N <sup>3</sup> P <sup>3</sup> P <sup>2</sup> N <sup>1</sup> P <sup>3</sup> N <sup>1</sup> P <sup>3</sup>
<b>Fagaceae</b> <i>Castanea sativa</i> (Sweet Chestnut; Tree) <i>Castanopsis indica</i> (Chestnut; Tree) <i>Quercus</i> spp (Oak; Tree)	S. Tropical, S. Temperate, Temperate S. Tropical, S. Temperate, Temperate S. Tropical, S. Temperate, Temperate	May-Sept Sept-Oct Apr-Jul	N <sup>3</sup> P <sup>3</sup> N <sup>2</sup> P <sup>3</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/Pollen Potential
<b>Gentianaceae</b>			
<i>Gentiana pedicellata</i> (Gentiana; Herb)	S. Temperate, Temperate	Apr-Jul	N <sup>3</sup> P <sup>3</sup>
<i>Swertia</i> spp (Swertia; Herb)	S. Temperate, Temperate	Aug-Oct	N <sup>3</sup> P <sup>3</sup>
<b>Geraniaceae</b>			
<i>Erodium</i> spp (Erodium; Herb)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<i>Geranium</i> spp (Geranium; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul	N <sup>3</sup> P <sup>3</sup>
<b>Hippocastanaceae</b>			
<i>Aesculus indica</i> (Horse Chestnut; Tree)	S. Temperate, Temperate	May-June	N <sup>1</sup> P <sup>1</sup>
<b>Hypericaceae</b>			
<i>Hypericum cordifolium</i> (Shrub)	S. Tropical, S. Temperate, Temperate	Aug-Oct	P <sup>1</sup>
<b>Iridaceae</b>			
<i>Iris nepalensis</i> (Iris; Herb)	Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<b>Juglandaceae</b>			
<i>Juglans regia</i> (Walnut; Tree)	S. Temperate, Temperate	March	P <sup>2</sup>
<b>Lamiaceae</b>			
<i>Calamintha</i> spp (Summer Savoury; Herb)	S. Temperate, Temperate	Sept-Oct	P <sup>3</sup>
<i>Elsholtzia blanda</i> (Elsholtzia; Herb)	S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sup>3</sup>
<i>Elsholtzia bodinieri</i> (Elsholtzia; Herb)	S. Tropical, S. Temperate, Temperate	Nov-Dec	N <sup>1</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Elsholtzia ciliata</i> (Elsholtzia; Herb)	S. Tropical, S. Temperate, Temperate	Oct-Nov	N <sup>1</sup> P <sup>3</sup>
<i>Elsholtzia cypriani</i> (Elsholtzia; Herb)	S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sup>3</sup>
<i>Elsholtzia dense</i> (Elsholtzia; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Sept	N <sup>1</sup> P <sup>3</sup>
<i>Elsholtzia fruticosa</i> (Elsholtzia; Herb)	S. Temperate, Temperate	Sept-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Elsholtzia rugulosa</i> (Elsholtzia; Herb)	S. Temperate, Temperate	Oct-Dec	N <sup>1</sup> P <sup>3</sup>
<i>Elsholtzia splendens</i> (Elsholtzia; Herb)	S. Temperate, Temperate	Sept-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Laminum album</i> (Deadnettle; Herb)	S. Tropical, S. Temperate, Temperate	Apr-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Leonurus heterophyllus</i> (Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>2</sup> P <sup>3</sup>
<i>Leucoscepterum canum</i> (Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Mentha viridis</i> (Mint; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Oct	N <sup>3</sup>
<i>Nepeta</i> spp (Catmint; Herb)	S. Tropical, S. Temperate, Temperate	May-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Ocimum basilicum</i> (Basil; Herb)	S. Tropical, S. Temperate	Aug-Sept	N <sup>2</sup> P <sup>3</sup>
<i>Origanum vulgare</i> (Marjoram; Herb)	S. Tropical, S. Temperate	Aug-Sept	N <sup>1</sup> P <sup>2</sup>
<i>Perilla frutescens</i> (Perilla; Herb)	S. Tropical, S. Temperate	Sept-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Plectranthus coetso</i> (Shain; Shrub)	S. Temperate, Temperate	Aug-Nov	N <sup>1</sup> P <sup>2</sup>
<i>Plectranthus gerardianus</i> (Shain; Shrub)	S. Temperate, Temperate	Aug-Sept	N <sup>1</sup> P <sup>2</sup>
<i>Plectranthus rugosus</i> (Shain; Shrub)	S. Temperate, Temperate	Aug-Oct	N <sup>1</sup> P <sup>2</sup>
<i>Plectranthus striatus</i> (Shain; Shrub)	S. Temperate, Temperate	Oct-Dec	N <sup>1</sup> P <sup>2</sup>
<i>Pogostemon glaber</i> (Shrub)	S. Temperate, Temperate	Jan-June	N <sup>1</sup> P <sup>1</sup>
<i>Rosmarinus officinalis</i> (Rosemary; Shrub)	S. Temperate, Temperate	Apr-June	N <sup>2</sup> P <sup>2</sup>
<i>Salvia splendens</i> (Sage; Herb)	S. Tropical, S. Temperate, Temperate	whole year	N <sup>1</sup> P <sup>3</sup>
<i>Stachys melissaefolia</i> (Woundwort; Shrub)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Lauraceae</b>			
<i>Litsea polyantha</i> (Meda; Tree)	Temperate	Dec-Jan	N <sup>3</sup> P <sub>3</sub>
<b>Liliaceae</b>			
<i>Asphodelus tenuifolius</i> (Asphodelus; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Oct	N <sup>3</sup> P <sub>2</sub>
<b>Linaceae</b>			
<i>Linum</i> spp (Flax; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>3</sup> P <sub>3</sub>
<b>Lythraceae</b>			
<i>Lagerstroemia indica</i> (Pride of India; Tree)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>2</sup> P <sub>2</sub>
<i>Lagerstroemia parviflora</i> (Jarul; Tree)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>1</sup> P <sub>1</sub>
<i>Cuphea micrantha</i> (Cuphea; Perennial Herb)	S. Tropical, S. Temperate, Temperate	Feb-Nov	N <sup>2</sup> P <sub>3</sub>
<i>Woodfordia fruticosa</i> (Dhawi; Shrub)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sub>1</sub>
<b>Malvaceae</b>			
<i>Abelmoschus esculentus</i> (Lady's Finger; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sub>2</sub>
<i>Althaea rosea</i> (Hollyhock; Shrub)	S. Tropical, S. Temperate	Apr-June	N <sup>2</sup> P <sub>2</sub>
<i>Gossypium arboreum</i> (Cotton; Herb)	S. Tropical, S. Temperate	Jul-Sept	N <sup>1</sup> P <sub>2</sub>
<i>Gossypium barbadense</i> (Egyptian Cotton; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sub>2</sub>
<i>Gossypium hirsutum</i> (Upland Cotton; Herb)	S. Tropical, S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sub>2</sub>
<i>Hibiscus cannabinus</i> (Decanhemp; Herb)	S. Tropical, S. Temperate	Jul-Aug	N <sup>3</sup> P <sub>3</sub>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Hibiscus rosa-sinensis</i> (Chinese Rose; Shrub)	S. Tropical, S. Temperate	Mar-May	N <sup>2</sup> P <sup>2</sup>
<i>Malva sylvestris</i> (Mallow; Herb)	S. Tropical, S. Temperate	June-Oct	N <sup>2</sup> P <sup>3</sup>
<i>Malva viscosa</i> (Shrub)	S. Tropical, S. Temperate	Whole year	N <sup>2</sup> P <sup>2</sup>
<b>Meliaceae</b>			
<i>Azadirachta indica</i> (Margosa; Tree)	S. Tropical	Apr-May	N <sup>1</sup> P <sup>3</sup>
<i>Cedrela toona</i> (Cedrela; Tree)	S. Tropical, S. Temperate	April	N <sup>1</sup> P <sup>2</sup>
<b>Moringaceae</b>			
<i>Moringa oleifera</i> (Drumstick Tree; Tree)	S. Tropical	Jan-Mar	N <sup>1</sup> P <sup>1</sup>
<b>Musaceae</b>			
<i>Musa sapientum</i> (Banana; Giant Herb)	S. Tropical, S. Temperate	Whole Year	N <sup>2</sup> P <sup>3</sup>
<b>Myrtaceae</b>			
<i>Callistemon citrinus</i> (Bottle Brush; Tree)	S. Tropical, S. Temperate	Mar-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus camaldulensis</i> (Eucalyptus; Tree)	S. Tropical	May-June	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus citriodora</i> (Eucalyptus; Tree)	S. Tropical	June-July	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus excerta</i> (Eucalyptus; Tree)	S. Tropical	May-July	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus globulus</i> (Eucalyptus; Tree)	S. Tropical, S. Temperate	October	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus grandis</i> (Eucalyptus; Tree)	S. Tropical, S. Temperate	June-Aug	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus melliodora</i> (Eucalyptus; Tree)	S. Tropical, S. Temperate	Oct-Dec	N <sup>1</sup> P <sup>1</sup>
<i>Eucalyptus robusta</i> (Eucalyptus; Tree)	S. Tropical, S. Temperate	June-Jul	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Psidium guajava</i> (Guava; Tree)	S. Tropical, S. Temperate	May-June	N <sup>1</sup> P <sup>1</sup>
<i>Syzygium cumini</i> (Jambolan; Tree)	S. Tropical, S. Temperate	Apr-May	N <sup>1</sup> P <sup>1</sup>
<i>Syzygium jambos</i> (Rose Apple; Tree)	S. Tropical, S. Temperate	Feb-June; Sept-Nov	N <sup>1</sup> P <sup>1</sup>
<b>Moraceae</b>			
<i>Morus</i> spp (Mulberry; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	P <sup>2</sup>
<b>Myrsinaceae</b>			
<i>Maesa chisia</i> (Small Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<b>Oleaceae</b>			
<i>Fraxinus floribunda</i> (Ash Tree)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>1</sup> P <sup>3</sup>
<i>Ligustrum indicum</i> (Ligustrum; Tree)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>2</sup> P <sup>2</sup>
<b>Onagraceae</b>			
<i>Epilobium</i> spp (Willow Herb; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sup>2</sup>
<b>Oxalidaceae</b>			
<i>Oxalis corniculata</i> (Indian Sorrel; Herb)	S. Tropical, S. Temperate, Temperate	Feb-June	N <sup>3</sup> P <sup>3</sup>
<b>Papaveraceae</b>			
<i>Argemone mexicana</i> (Prickly Poppy; Herb)	S. Tropical, S. Temperate	May-Jul	P <sup>3</sup>



Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Eschscholzia californica</i> (Californian Poppy; Herb)	S. Tropical, S. Temperate Temperate	Mar-June June-Aug	N <sup>3</sup> P <sup>1</sup> N <sup>3</sup> P <sup>3</sup>
<i>Meconopsis</i> spp (Herb)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<i>Papaver rhoeas</i> (Poppy; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul Apr-Jul May-Jul May-June Apr-May May-Jun Apr-Jun April Mar-Apr May-Jun Sept-Nov Jan-Feb Nov-Apr May-Sept Whole Year Apr-May Feb-Mar	N <sup>2</sup> P <sup>2</sup> N <sup>1</sup> P <sup>1</sup> N <sup>1</sup> P <sup>1</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>1</sup> P <sup>2</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>1</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>3</sup> P <sup>3</sup> N <sup>1</sup> P <sup>1</sup> N <sup>2</sup> P <sup>2</sup> N <sup>1</sup> P <sup>3</sup>
<b>Papilionaceae</b>			
<i>Acacia arabica</i> (Acacia; Tree)	S. Tropical, S. Temperate	May-Jul	N <sup>2</sup> P <sup>2</sup>
<i>Acacia catechu</i> (Acacia; Tree)	S. Tropical, S. Temperate	Apr-Jul	N <sup>1</sup> P <sup>1</sup>
<i>Acacia modesta</i> (Acacia; Tree)	S. Tropical, S. Temperate	May-Jul	N <sup>1</sup> P <sup>1</sup>
<i>Albizia chinensis</i> (Albizia; Tree)	S. Tropical, S. Temperate	May-June	N <sup>3</sup> P <sup>3</sup>
<i>Albizia julibrissin</i> (Persian Acacia; Tree)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>3</sup> P <sup>3</sup>
<i>Albizia lebbek</i> (Albizia; Tree)	S. Tropical	May-Jun	N <sup>3</sup> P <sup>3</sup>
<i>Albizia odoratissima</i> (Siris; Tree)	S. Tropical, S. Temperate	Apr-Jun	N <sup>3</sup> P <sup>3</sup>
<i>Astragalus sinicus</i> (Astragalus; Shrub)	S. Tropical, S. Temperate, Temperate	April	N <sup>1</sup> P <sup>2</sup>
<i>Bauhinia purpurea</i> (Geranium Tree; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Bauhinia vahlii</i> (Camell's Foot; Climber)	S. Tropical, S. Temperate, Temperate	May-Jun	N <sup>3</sup> P <sup>3</sup>
<i>Bauhinia variegata</i> (Kachnar, Tree)	S. Tropical, S. Temperate, Temperate	Sept-Nov	N <sup>3</sup> P <sup>3</sup>
<i>Butea monosperma</i> (Palas; Tree)	S. Tropical, S. Temperate	Jan-Feb	N <sup>1</sup> P <sup>3</sup>
<i>Caesalpinia</i> spp (American Sumac; Tree)	S. Tropical, S. Temperate	Nov-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Cajanus cajan</i> (Pigeon Pea; Shrub)	S. Tropical, S. Temperate, Temperate	May-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Calliandra calothyrsus</i> (Red Calliandra; Tree)	S. Tropical, S. Temperate	Whole Year	N <sup>1</sup> P <sup>1</sup>
<i>Cassia fistula</i> (Indian Laburnum; Tree)	S. Tropical, S. Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Cicer arietinum</i> (Bengal Gram; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Crotalaria juncea</i> (Sannhemp; Shrub)	S. Tropical, S. Temperate, Temperate	Jul-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Dalbergia sissoo</i> (Sissoo; Tree)	S. Temperate, S. Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Delonix regia</i> (Gulmohr; Tree)	S. Tropical, S. Temperate	May-June	N <sup>2</sup> P <sup>2</sup>
<i>Erythrina suberosa</i> (Coral Tree; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<i>Glycine max</i> (Soybean; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Indigofera</i> spp (Indigofera; Shrub)	S. Tropical, S. Temperate, Temperate	June-Aug	N <sup>2</sup> P <sup>2</sup>
<i>Lespedeza cuniata</i> (Lespedeza; Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>2</sup>
<i>Leucaena leucocephala</i> (Small Tree)	S. Tropical, S. Temperate	Sept-Oct	N <sup>3</sup> P <sup>1</sup>
<i>Medicago falcata</i> (Lucerne; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>3</sup>
<i>Medicago laciniata</i> (Lucerne; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<i>Medicago lupulina</i> (Lucerne; Herb)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>1</sup> P <sup>2</sup>
<i>Medicago sativa</i> (Alfalfa; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Sept	N <sup>1</sup> P <sup>2</sup>
<i>Melilotus alba</i> (White Melilot; Herb)	S. Tropical, S. Temperate, Temperate	Mar-May	N <sup>1</sup> P <sup>1</sup>
<i>Melilotus parviflora</i> (Yellow Melilot; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul	N <sup>1</sup> P <sup>2</sup>
<i>Mimosa pudica</i> (Sensitive Plant; Herb)	S. Tropical, S. Temperate	Jul-Nov	N <sup>3</sup> P <sup>2</sup>
<i>Parkia roxburghii</i> (Supota; Tree)	S. Tropical, S. Temperate	Oct-Dec	N <sup>3</sup> P <sup>2</sup>
<i>Phaseolus</i> spp (Pulses, Beans; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>3</sup> P <sup>3</sup>
<i>Pisum sativum</i> (Pea; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>3</sup> P <sup>3</sup>
<i>Robinia pseudoacacia</i> (False Acacia; Tree)	S. Tropical, S. Temperate, Temperate	April	N <sup>1</sup> P <sup>2</sup>
<i>Sophora mollis</i> (Pagoda Tree; Tree)	S. Temperate	Mar-Jul	N <sup>2</sup> P <sup>2</sup>
<i>Sophora viciifolia</i> (Shrub)	S. Temperate	Mar-Apr	N <sup>1</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Tamarindus indica</i> (Tamarind; Tree)	S. Tropical, S. Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<i>Trifolium alexandrinum</i> (Egyptian Clover; Herb)	S. Tropical, S. Temperate, Temperate	May-June	N <sup>1</sup> P <sup>1</sup>
<i>Trifolium pratense</i> (Red Clover; Herb)	S. Tropical, S. Temperate, Temperate	Apr-Sept	N <sup>1</sup> P <sup>2</sup>
<i>Trifolium repens</i> (White Clover; Herb)	S. Tropical, S. Temperate, Temperate	Feb-June	N <sup>1</sup> P <sup>1</sup>
<i>Trifolium resupinatum</i> (Persian Clover; Herb)	S. Tropical, S. Temperate, Temperate	Apr-June	N <sup>1</sup> P <sup>1</sup>
<i>Trigonella</i> spp (Methi; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>3</sup>
<i>Vicia faba</i> (Broad Beans; Herb)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>3</sup> P <sup>1</sup>
<i>Vicia cracca</i> (Field Beans; Herb)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>1</sup> P <sup>1</sup>
<b>Pedaliaceae</b>			
<i>Sesamum indicum</i> (Sesame; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>1</sup> P <sup>1</sup>
<b>Plantaginaceae</b>			
<i>Plantago</i> spp (Plantago; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Sept	N <sup>2</sup> P <sup>1</sup>
<b>Poaceae</b>			
<i>Cynodon dactylon</i> (Dub Grass; Herb)	S. Tropical, S. Temperate, Temperate	May-Sept	P <sup>3</sup>
<i>Sorghum vulgare</i> (Sorghum; Herb)	S. Tropical, S. Temperate, Temperate	May-June	P <sup>1</sup>
<i>Zea mays</i> (Maize; Corn; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Aug	P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Polygonaceae</b>			
<i>Antigonon leptopus</i> (Coral Vine; Climber)	S. Tropical	May-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Fagopyrum esculentum</i> (Buckwheat; Herb)	S. Tropical, S. Temperate, Temperate	Aug-Sept	N <sup>1</sup> P <sup>2</sup>
<i>Polygonum</i> spp (Polygonum; Herb)	S. Tropical, S. Temperate, Temperate	May-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Rumex</i> spp (Rumex; Herb)	S. Tropical, S. Temperate, Temperate	June-Oct	N <sup>3</sup> P <sup>3</sup>
<b>Portulacaceae</b>			
<i>Portulaca grandiflora</i> (Portulaca; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>2</sup> P <sup>1</sup>
<b>Primulaceae</b>			
<i>Primula</i> spp (Primula; Herb)	S. Tropical, S. Temperate, Temperate	May-Sept	N <sup>3</sup> P <sup>3</sup>
<b>Punicaceae</b>			
<i>Punica granatum</i> (Pomegranate; Tree)	S. Tropical, S. Temperate	Apr-May	N <sup>3</sup> P <sup>1</sup>
<i>Punica nana</i> (Wild Pomegranate; Tree)	S. Tropical, S. Temperate	May-June	N <sup>3</sup> P <sup>1</sup>
<b>Proteaceae</b>			
<i>Grevillea robusta</i> (Silky Oak; Tree)	S. Tropical	Apr-May	N <sup>1</sup> P <sup>1</sup>
<b>Ranunculaceae</b>			
<i>Caltha</i> spp (Marsh Marigold; Herb)	Temperate	Apr-Jul	N <sup>3</sup> P <sup>2</sup>
<i>Clematis</i> spp (Clematis; Climber)	S. Tropical, S. Temperate	Mar-May	N <sup>2</sup> P <sup>2</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Delphinium roylei</i> (Larkspur, Herb)	S. Tropical, Temperate	Mar-May	N <sup>3</sup> P <sup>3</sup>
<i>Ranunculus arvensis</i> (Buttercup; Herb)	S. Tropical, S. Temperate, Temperate	May-Jul	N <sup>3</sup> P <sup>3</sup>
<b>Rhamnaceae</b>			
<i>Ziziphus jujuba</i> (Chinese Jujube; Tree)	S. Tropical, S. Temperate	Jul-Oct	N <sup>1</sup> P <sup>3</sup>
<i>Ziziphus incurva</i> (Wild Jujube; Tree)	S. Tropical, S. Temperate	June-Jul	N <sup>1</sup> P <sup>3</sup>
<i>Zizyphus mauritiana</i> (Indian Jujube; Tree)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>3</sup>
<i>Zizyphus numularia</i> (Jujube; Shrub)	S. Tropical, S. Temperate	Apr-June	N <sup>1</sup> P <sup>3</sup>
<i>Zizyphus oxyphylla</i> (Jujube; Shrub)	S. Tropical, S. Temperate	June-Sep	N <sup>1</sup> P <sup>3</sup>
<b>Rosaceae</b>			
<i>Eriobotrya dubia</i> (Tree)	S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>3</sup>
<i>Eriobotrya japonica</i> (Loquat; Tree)	S. Temperate, Temperate	Feb-Mar; Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Fragaria vesca</i> (Strawberry; Herb)	S. Temperate, Temperate	Feb-May	N <sup>2</sup> P <sup>2</sup>
<i>Malus domestica</i> (Apple; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Malus pumila</i> (Apple; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Potentilla</i> spp (Silverweed; Herb)	S. Temperate, Temperate,	June-Aug	N <sup>2</sup> P <sup>3</sup>
<i>Prinsepia utilis</i> (Bekhal; Shrub)	S. Tropical, S. Temperate, Temperate	Oct-Nov	N <sup>2</sup> P <sup>2</sup>
<i>Prunus amygdalus</i> (Almond; Tree)	S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Prunus armeniaca</i> (Apricot; Tree)	S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Prunus avium</i> (Cherry; Tree)	S. Temperate, Temperate	February	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Prunus domestica</i> (Plum; Tree)	S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>1</sup>
<i>Prunus cerasoides</i> (Wild Cherry; Tree)	S. Temperate, Temperate	November	N <sup>1</sup> P <sup>1</sup>
<i>Prunus persica</i> (Peach; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Pyracantha crenulata</i> (Shrub)	S. Tropical, S. Temperate, Temperate	April	N <sup>2</sup> P <sup>2</sup>
<i>Pyrus communis</i> (Pear; Tree)	S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>1</sup>
<i>Pyrus pashia</i> (Wild Pear; Tree)	S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Rosa brunoni</i> (Wild Rose; Shrub)	S. Temperate, Temperate	Apr-June	N <sup>3</sup> P <sup>1</sup>
<i>Rosa laevigata</i> (Wild Rose; Shrub)	S. Temperate, Temperate	Apr-June	N <sup>3</sup> P <sup>1</sup>
<i>Rosa macrophylla</i> (Wild Rose; Shrub)	S. Temperate, Temperate	Apr-June	N <sup>3</sup> P <sup>1</sup>
<i>Rosa moschata</i> (Wild Rose; Shrub)	S. Temperate, Temperate	June-July	N <sup>3</sup> P <sup>1</sup>
<i>Rosa sericea</i> (Wild Rose; Shrub)	S. Temperate, Temperate	May-Aug	N <sup>3</sup> P <sup>1</sup>
<i>Rubus ellipticus</i> (Raspberry; Shrub)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<i>Rubus paniculatus</i> (Raspberry; Shrub)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Rubus setchuensis</i> (Raspberry; Shrub)	S. Tropical, S. Temperate, Temperate	Jul-Aug	N <sup>1</sup> P <sup>1</sup>
<i>Rubus ulmifolius</i> (Raspberry; Shrub)	S. Temperate, Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<b>Rubiaceae</b>			
<i>Wendlandia exserta</i> (Chanlai; Tree)	S. Tropical	Nov-Feb	N <sup>2</sup> P <sup>1</sup>
<i>Wendlandia tinctoria</i> (Tree)	S. Tropical	Feb-Apr	N <sup>1</sup> P <sup>1</sup>
<b>Rutaceae</b>			
<i>Citrus aurantifolia</i> (Lemon; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Citrus grandis</i> (Pumelo; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<i>Citrus limetta</i> (Sweet Lemon; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Citrus medica</i> (Citron; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Citrus paradisi</i> (Grape Fruit; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Citrus reticulata</i> (Mandarin Orange; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Citrus sinensis</i> (Sweet Orange; Tree)	S. Tropical, S. Temperate, Temperate	Mar-Apr	N <sup>1</sup> P <sup>1</sup>
<i>Murraya koenigii</i> (Curry Leaf Plant; Shrub)	S. Temperate, S. Tropical	Mar-Apr	N <sup>2</sup> P <sup>2</sup>
<b>Salicaceae</b>			
<i>Salix acmophylla</i> (Willow; Tree)	S. Temperate, S. Tropical, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix alba</i> (White Willow; Tree)	S. Temperate, S. Tropical, Temperate	February	N <sup>2</sup> P <sup>2</sup>
<i>Salix babylonica</i> (Weeping Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Salix calyculata</i> (Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix elegans</i> (Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix excelsa</i> (Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix fragilis</i> (Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix sikkimensis</i> (Willow; Tree)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<i>Salix wallichiana</i> (Willow; Tree)	Tropical, S. Temperate, S. Temperate	Feb-Mar	N <sup>2</sup> P <sup>2</sup>
<b>Sapindaceae</b>			
<i>Litchi chinensis</i> (Litchi; Tree)	S. Tropical, S. Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Sapindus detergens</i> (Soapnut; Tree)	S. Tropical, S. Temperate	May-June	N <sup>1</sup> P <sup>1</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/Pollen Potential
<b>Sapotaceae</b>			
<i>Aesandra butyracea</i> (Indian Butter Tree)	S. Tropical, S. Temperate	Sept-Feb	N <sup>1</sup> P <sup>1</sup>
<i>Madhuca latifolia</i> (Tree)	S. Tropical, S. Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<b>Saurauiceae</b>			
<i>Saurauia nepaulensis</i>	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<b>Scrophulariaceae</b>			
<i>Paulownia elongata</i> (Paulownia; Tree)	S. Tropical, S. Temperate	Feb-Mar	N <sup>1</sup> P <sup>1</sup>
<i>Scrophularia</i> spp (Figwort; Herb)	S. Tropical, S. Temperate, Temperate	Jul-Sept	N <sup>1</sup> P <sup>2</sup>
<b>Solanaceae</b>			
<i>Capsicum annuum</i> (Chillies; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	N <sup>3</sup> P <sup>3</sup>
<i>Datura stramonium</i> (Thorn Apple; Herb)	S. Tropical, S. Temperate, Temperate	June-Sept	P <sup>3</sup>
<i>Lycopersicum esculentum</i> (Tomato; Herb)	S. Tropical, S. Temperate, Temperate	Mar-Oct	N <sup>3</sup> P <sup>3</sup>
<b>Sonnertiaceae</b>			
<i>Duabanga grandiflora</i> (Duabanga; Tree)	S. Tropical	April	N <sup>2</sup> P <sup>2</sup>
<b>Symplocaceae</b>			
<i>Symplocos paniculata</i> (Symplocos; Tree)	S. Tropical, S. Temperate, Temperate	Apr-May	N <sup>2</sup> P <sup>2</sup>
<i>Symplocos sumunita</i> (Symplocos; Tree)	S. Tropical, S. Temperate, Temperate	October	N <sup>2</sup> P <sup>2</sup>



Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Theaceae</b>			
<i>Camellia sinensis</i> (Tea, Shrub)	S. Tropical, S. Temperate	Oct-Nov	N <sup>1</sup> P <sup>1</sup>
<i>Camellia oleifera</i> (Tree)	S. Tropical, S. Temperate	Oct-Dec	N <sup>1</sup> P <sup>1</sup>
<i>Eurya accuminata</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya alata</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya brevistyla</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya chinensis</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya groffii</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya muricata</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Eurya nitida</i> (Wild Osmanthus; Shrub)	S. Tropical, S. Temperate	Sept-Oct	N <sup>1</sup> P <sup>1</sup>
<i>Schima wallichii</i> (Needle Wood; Tree)	S. Tropical	May-June	N <sup>2</sup> P <sup>2</sup>
<b>Tiliaceae</b>			
<i>Grewia optiva</i> (Bhema; Tree)	S. Tropical, S. Temperate, Temperate	May-June	N <sup>1</sup> P <sup>1</sup>
<i>Tilia</i> spp (Lime Basswood; Tree)	S. Tropical, S. Temperate, Temperate	June-Aug	N <sup>1</sup>
<b>Thymelaeaceae</b>			
<i>Daphne oleoides</i> (Daphne; Shrub)	S. Temperate, Temperate	Jul-Sept	N <sup>3</sup> P <sup>3</sup>
<b>Violaceae</b>			
<i>Viola odorata</i> (Viola; Herb)	S. Tropical, S. Temperate, Temperate	June-Aug	N <sup>3</sup> P <sup>3</sup>

Family/Plant Species	Ecological Habitat	Flowering Period	Nectar/ Pollen Potential
<b>Verbenaceae</b>			
<i>Caryopteris odorata</i> (Caryopteris; Shrub)	S. Tropical, S. Temperate, Temperate	Feb-Mar	N <sup>2</sup> P <sup>3</sup>
<i>Verbena officinalis</i> (Verbena; Perennial Herb)	S. Tropical, S. Temperate, Temperate	June-Jul	N <sup>1</sup> P <sup>2</sup>
<i>Vitex negundo</i> (Indian Privet; Shrub)	S. Tropical, S. Temperate, Temperate	Apr-Oct	N <sup>1</sup> P <sup>2</sup>
<b>Vitaceae</b>			
<i>Vitis vinifera</i> (Grapes; Climber)	S. Tropical, S. Temperate, Temperate	May-June	N <sup>3</sup> P <sup>3</sup>
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N <sup>1</sup>	= Major nectar source	P <sup>1</sup>	= Major pollen source
N <sup>2</sup>	= Medium nectar source	P <sup>2</sup>	= Medium pollen source
N <sup>3</sup>	= Minor nectar source	P <sup>3</sup>	= Minor pollen source
S. Tropical = Subtropical S. Temperate = Sub-Temperate			
Source: Compiled from multiple sources			