Design a Garden that Attracts & Supports Birds

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Spokane County Master Gardener Foundation

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Design a Garden that Attracts & Supports Birds by Pamela Brown

Birds are either carnivorous or omnivorous. They are either local native or migratory birds. Their dietary needs are best met by the native plants and insects found here, even when they are migratory birds that have adapted to local conditions.

While adult birds enjoy the bonus of seeds we provide in feeders, they will only establish nests near plants that host insects for their offspring. Young birds require the high protein diet of local insects. Therefore, it is critical to not only plant and protect native plant varieties, but to largely avoid the use of insecticides, particularly non-specific, generally applied insecticides.

Healthy gardens offer a large variety of plants, native and non-native, so there is an abundance of food sources throughout the year – nectar, fruits, nuts, seeds, foliage, pollen, sap, and most importantly – insects. Healthy gardens often have a variety of plant species to reduce the spread of plant diseases. Certain birds (and mammals) will hibernate and require a rich diet in the fall; some birds need to fatten up, and some to hide in nests, tree cavities, or in the ground. Select plants with fall fruits, nuts, and seeds, and prune so that food is left on the plants through the winter.

Migratory birds have predictable migration schedules. Some local species remain in the area over the winter. Plan a planting scheme that provides food at the times specific birds are present in your garden, or <u>would be</u> if the preferred plants and insects were present. (Plant the shrub and they will come!) Know which flowers, seeds, and insects the various birds prefer, and offer a variety. To extend the blooming season, include annuals that bloom over a long period, and deadhead perennials so that they will rebloom.

To extend the buffet offered by your delicious plants, allow desirable seeds and pods to remain on plants into the fall and winter. The entire garden does not need to be immaculate. Know which plants provide nutrients, and when, and for which birds, and then plan areas where you will maintain fall and winter feeding by leaving the seeds on the plants. Ripening seeds turn tan then dark brown. Entry gardens could be tidy, while farther areas left wilder.

Songbirds are typically seed eaters, and will enjoy both seeds found on plants and in feeders. Local seed eating songbirds include finches, cardinals, juncos, nuthatches, chickadees, and sparrows. Some have tiny, sharp beaks and eat in large groups like finches; some have blunt beaks and crush the seeds, such as grosbeaks; and some grab and go from feeders.

Fruit eating birds have large appetites, including waxwings, orioles, warblers, tanagers, and mockingbirds. They will love any fruit-bearing plants. When those fruits are not in season, supplemental food trays with orange halves, apple slices, and grapes will attract birds.

Birds that prefer insects, often have long beaks to reach into tree bark, include woodpeckers, nuthatches, and robins. In winter, when fewer insects are available in the wild, these birds will enjoy suet and trays with dehydrated insects and mealworms.



FREQUENTLY SEEN NATIVE & MIGRATING BIRDS

CHICKADEES



Black-capped Chickadee



Mountain Chickadee



Chestnut-backed Chickadee

TITMICE



Tufted Titmouse

SHRIKES



Northern Shrike

WAXWINGS



Cedar Waxwing



Bohemian Waxwing

WOODPECKERS



Pileated Woodpecker Downy Woodpecker





Hairy Woodpecker Northern Flicker



NUTHATCHES



Pygmy Nuthatches



Red-breasted Nuthatch



White-breasted Nuthatch

KINGLETS



Golden-crowned Kinglet (female)





Ruby-crowned Kinglet (female)

FINCHES AND SPARROWS









Black-headed Grosbeak

Pine Grosbeak

Evening Grosbeak

Indigo Bunting

female









Cassin's Finch

House Finch

Purple Finch

Red Crossbill







Pine Siskin

American Goldfinch

Spotted Towhee









Vesper Sparrow

Chipping Sparrow

Savannah Sparrow

Song Sparrow





Dark-eyed Junco female Junco male

WARBLER **BUNTINGS**











Western Tanager

Orange-crowned Warbler

Common Yellowthroat

BLACKBIRDS, ORIOLES



Red-winged Blackbird





Western Meadowlark



Brewer's Blackbird



Brown-headed Cowbird



Cowbird female



Yellow-headed Blackbird

THRUSHES



Varied Thrush



Swainson's Thrush



Western Bluebird



American Robin

LARKS AND SWALLOWS



Violet-green Swallow



Tree Swallow



Northern Rough-Winged sparrow







Bank Swallow



Barn Swallow





Cliff Swallow



Horned Lark

CORVIDS



American Crow



Raven



Black-billed Magpie



Canada Gray Jay

FLYCATCHERS











Western Kingbird Eastern Kingbird

Western Wood Pee-wee

Willow Flycatcher

Say's Phoebe

HUMMINGBIRDS









Black-chinned Hummingbird

Caliope Hummingbird

BIRDS OF PREY - RAPTORS









American Kestrel

Osprey

Bald Eagle













Cooper's Hawk

Sharp-shinned Hawk (more square tail)

Northern Harrier

OWLS



Great Horned Own



Western Screech Owl



Northern Pygmy-Owl



Barn Owl

		Spokene Chacklet: Tot	Spokene Chackilet: Total: 319 se of 19/91/90001		
WATERFOWL	NIGHTHAWKS, SWIFTS	Ring-billed Gull (1)	Acom Woodnecker (5)	Chestnut-backed Chickadee (3)	Brewer's Sparrow (3)
Snow Goose (3)	Common Mighthawk (2)	California Guil (2)	Williamson's Sansucker (5)	NITHATCHES CREEDER	Fox Snamow (2)
Ross's Goose (4)	Common Doorwill (3)	Hermon Gull (3)	Red-named Sansucker (2)	Red-breasted Nuthatch (1)	American Tree Sharrow (3)
Greater White-fronted Goose (3)	Black Swiff (5)	loeland Gull (4)	Red-breasted Sansucker (5)	White-breasted Nuthatch (2)	Dark-aved Junco (1)
Cackling Goose (2)	Valor's Swift (3)	Glaucous-winded Gull (4)	Am Three-toed Woodnecker (4)		White-crowned Sparrow (1)
Canada Goose (1)	White-throated Swiff (2)	Glaucous Gull (4)	Black-backed Woodnecker (4)		Golden-crowned Sparrow (3)
Mufe Swan" (5)	HUMMINGBIRDS	Casplan Tem (3)	Downy Woodbecker (1)	WRENS GNATCATCHER DIPPER	Hamis's Sparrow (4)
Trumpeter Swan (3)	Black-chinned Hummingbird (1	Black Tem (2)	Hairy Woodnecker (1)	Rock Wren (2)	White-throated Sparrow (4)
Tundra Swan (1)	Anna's Hummingbird (4)	Common Tern (4)	White-headed Woodpecker (4)	Canvon Wren (2)	Vesper Sparrow (1)
Wood Duck (2)	Callione Hummingbird (1)	Arctic Tem (5)	Northern Flicker (1)	House Wren (1)	Savannah Sparrow (1)
Blue-winged Teal (2)	Rufous Humminabird (2)	Forster's Tem (3)	Pileated Woodbecker (2)	Pacific Wren (1)	Sond Sparrow (1)
Clunamon Teal (1)	RAILS, CRANES	LOONS	FALCONS	Marsh Wren (1)	Lincoln's Sparrow (2)
Northern Showeler (1)	Virginia Rall (2)	Red-throated Loon (5)	American Kestrel (1)	Bewick's Wren (2)	Swamp Spamow (4)
Gadwall (1)	Sora (2)	Pacific Loon (4)	Merlin (2)	American Dipper (2)	Spotted Towner (1)
Furacian Windon (3)	American Cont (1)	Common Loon (2)	Guttaloon (4)	KINGI ETS	CHAT BI ACKRIRDS ORIOI FS
American Winson (1)	Sandhill Crane (4)	CORMORANTE DELICANE HERONE	Derentho Falonn (3)	Colden-commed Cholet (1)	Vallow-breasted Chat (3)
Mallard (1)	CHORFBIRDS	Double-creeted Comprant (1)	Draine Falon (3)	Buhacmanad Kinger (1)	Valow-beaded Blackbird (1)
(a) "don't doctor of the property	C/ #150 postpoor doction	American White College (7)	CI VCATCHERS	Tubilence	(1) purposed proposed (1)
Northern Dintall (1)	American Avocat (2)	American Pittern (3)	Ach-throated Flucatoher (5)	Western Blimblin (1)	Mectern Meadowiatk (1)
Cropp subpood Tool (1)	Black holled Dionar (4)	Creat Blue Home (1)	Western Khahlind (1)	Mountain Bluebled (2)	Bullook's Odolo (1)
Cranachack (2)	American Coldon Discortal	Creat Blood (1)	Exton Cooked (1)	Townsond's College (2)	Dominate Citize (1)
Dodhood (4)	Villdoor (1)	Special Egiet (5)	Office elded Sheetsher (3)	Money (2)	Tricological Blackblod (6)
Plan pooked Duck (1)	Company (1)	Showy Egiet (5)	Worters Mood Bossos (1)	Surpheon's Thrush (2)	Brown hooded Combine (1)
Creater Sealin (3)	Mountain Diougr (5)	Coffic Foret (5)	Willow Fluratcher (1)	Homel Though (3)	Buch Blockhod (5)
Locate South (3)	Inland Sandplac (V)	Came Lyler (5)	Load Electrophy (3)	American Robin (1)	Brownord Blookhind (1)
Hadeauth Duck (4)	Whimbrel (5)	Block commod Might Home (4)	Hammond's Bloodshor (1)	Vaded Theish (2)	Common Crackle (5)
State Septem Colon (4)	(c) majority (d)	Minito According (5)	Complete Charleton (1)	Chilled Hilling	Collimon Glackie (5)
Minister (a)	Cong-onled Cullew (4)	WILLIAM BARTORS	Gray riyeakiner (2)	MIMILDS, STANLING	Gledining Glackie (5)
Willie-Winged Scoter (4)	Marting Codest (2)	Turkey William (2)	Dusky riyeatcher (1)	Gray Calbira (2)	WANDLERS
Didda Scotter (3)	Middle Turnetton (4)	Control (1)	Pacific stope rigiditate (1)	DIOWII IIII delle (5)	Northern Winterthrush (4)
Long-tailed Duck (4)	Ruddy Lumstone (5)	Osprey (1)	Castern Proebe (5)	Sage Infasher (5)	Normem Watermilan (4)
Common Coldenses (1)	Cham-falled Candolner (5)	Northern Harrier (1)	enpikes vipeos	Furnessa Stading (1)	Block and white Worklor (5)
Barmania Coldonomo (2)	offit Candolper (4)	Charachined Hank (2)	Joseph Michael (5)	MANAGE to DIDITE	Tonoccoo Wathler (4)
Hooded Memoreer (1)	Sandoning (4)	Cocoods Haut (2)	Modhem Shrike (3)	Bohomina Massing 29	Occupa commod Wathler (4)
Common Momanaci (1)	Condeming (4)	Mothern Corbant (2)	Vollow throoted Misse (5)	Coder Misselbe (4)	Machallo Machine (1)
Dod broaded Morrages (1)	Daird's Sandalage (2)	Bold Book (4)	Carella's Mee (1)	Louis Spanner (1)	Macollherute Walder (2)
Rudde Duck (1)	Least Sandolper (2)	Broad-wloned Hawk (5)	Wathles Vies (1)	American Dirit (2)	Common Vallouthroat (1)
CALIMACEOUS BIBDS	Destroy Condition (2)	Diodo-winged nawk (3)	Walbillig Vileo (1)	SINCHES SOVES	Common Tellowullodi (1)
GALINACEOUS DINUS	Pedoral Sandpiper (2)	Owding Day (4)	Copyrige (a)	FINCHES, SPANNOWS	Amorphia (2)
Mild Turkey (1)	Morfor Sandalog (3)	Dough Joseph Livet (2)	CONVIDS Control Control	Dies Creshook (3)	American reusidit (3)
Outfood Crosses (2)	Obort billed Douttober (4)	Formulacus Hank (4)	Californ (a)	Craw commond Born Shop (4)	Volley Wather (1)
Curren Grouse (2)	Short-billed Domitcher (4)	Olan e	Direction (2)	Gray-crowned rossystinon (4)	Dischard Warhler (F)
Dusky Grouse (3)	Williams Sales (1)	OWLS Sam Out (3)	Dilue July (4)	Dumb Shop (5)	Didoxpoi Walbier (5)
Silaip-tailed Glouse (A)	wisons online (1)	Dall Om (3)	Callionnia Sciub-say (5)	Fullple Filler (5)	Pallit Waldiel (3)
Gray Partitione (2)	Sponed Sandpiper (1)	Mosters Seesalt (3)	Clark's Nuiciacker (3)	Cassins Finan (2)	Tellow-fumped Warbier (1)
CBEBES	Solitary Sandpiper (5)	Western Screech-Owl (2)	Amodono Cross (1)	Common Redpoil (3)	Lownsend's Walder (2)
GNEDES Diod-billed Graha (1)	Willet /51	Spoure Out (4)	Common Passe (1)	Red Crossbill (1)	Rick-throated Green Warhler (5)
Homed Grahe (2)	Creater Vellowleds (1)	Northern Hawk Out /5)	ARKS SWALLOWS	White-winded Croschii (4)	Milcon's Warbler (2)
Red-necked Grabe (2)	Wilson's Dhalamon (2)	Northern Dyamy-Owl (2)	Homed Lark (1)	Pine Sixin (1)	TANAGERS to DICKCISSE
Fared Grebe (2)	Red-necked Phalarone (3)	Burnowing Owl (4)	Bank Swallow (1)	Lesser Goldfloch (4)	Western Tanager (1)
Western Grebe (2)	Red Phalarope (5)	Barred Owl (3)	Tree Swallow (1)	American Goldfinch (1)	Rose-breasted Grosbeak (4)
Clark's Grebe (4)	JAEGERS, ALCIDS	Great Gray Owl (5)	Violet-green Swallow (1)	Lapland Longspur (4)	Black-headed Grosbeak (1)
PIGEONS, DOVES	Parasitic Jaeger (5)	Long-eared Owl (4)	N. Rough-winged Swallow (2)	Snow Bunting (4)	Lazull Bunting (2)
Rock Pigeon (1)	Ancient Murrelet (5)	Short-eared Owl (3)	Barn Swallow (1)	Grasshopper Sparrow (3)	Indigo Bunting (5)
Band-talled Pigeon (5)	GULL, TERNS, TROPICBIRD	Northern Saw-whet Owl (2)	CIIII Swallow (1)	Black-throated Sparrow (5)	
Eurasian Collared-Dove (1)	Bonaparte's Gull (3)	KINGFISHER, WOODPECKERS	CHICKADEES, BUSHTIT	Lark Sparrow (2)	
White-winged Dove (5)	Franklin's Gull (4)	Beited Kingfisher (2)	Black-capped Chickadee (1) Mountain Chickadee (1)	Chipping Sparrow (1)	
(1) 200 6	(2)	(t) canadagain against	(1)	(c) manada panna (ma	
	the section of the se				



PLANT FAMILIES



These plant families include specific varieties that will thrive in this region, and will provide either cover/shelter, food, nesting sites, and/or roosting sites. Look at the longer "Plants that Birds Love" list for additional information. When possible, select native varieties within each family.

Evergreen Trees (20' or more)	Deciduous Trees (20' or more)	Evergreen Shrubs
Abies – Fir	Acer – <i>Maple</i>	Cotoneaster
Picea - <i>Spruce</i>	Alnus - Alder	Ilex – Holly
Pinus – <i>Pine</i>	Betula – <i>Birch</i>	Juniperus - <i>Juniper</i>
Pseudotsuga – Douglas Fir	Celtis - Hackberry	Mahonia – <i>Oregon Grape</i>
Thuja plicata – <i>Red Cedar</i>	Cornus – Dogwood	Pyracantha – Fire Thorn
Tsuga - Hemlock	Crataegus - Hawthorn	Rhododendron – Rhododendron &
_	Fagus – Beech	Azalea
	Larix - Larch	Thuja occidentalis – Arborvitae
	Liquidambar - Sweet Gum	Tsuga - Hemlock
	Malus – Crabapple	
	Morus - Mulberry	
	Populus – Aspen and Cottonwood	
	Prunus – Cherry and Plum	
	Quercus – Oak	
	Salix - Willow	
	Sorbus – <i>Ash</i>	
Deciduous Shrubs	Vines	Groundcovers
Amelanchier - Serviceberry	Campsis – Trumpet Vine	Arctostaphylos uva-ursu- Kinnikinnick
Aronia - <i>Chokeberry</i>	Lonicera - Honeysuckle	Fragaria – Wild Strawberry
Callicarpa – <i>Beautyberry</i>	Vitis – Grape	Mahonia repens – Creeping Oregon
Cornus – Dogwood	Parthenocissus – Virginia Creeper	Grape
Holodiscus - <i>Oceanspray</i>		·
Ribes – Currant		
Rosa – <i>Rose</i>		
Rhus – <i>Sumac</i>		
Ribes - Current		
Rubus – <i>Blackberry</i>		
Salix - Willow		
Sambucus – Elderberry		
Symphoricarpus - Snowberry		
Vaccinium – Blueberry, Huckleberry		
Viburnum - <i>Viburnum</i>		
Perennials	Annuals	Grasses
Aquilegia – Columbine	Centaurea - Cornflower or	Andropogon - Beargrass
Aster - Aster	Bachelor's Buttons	Miscanthus – Maidengrass
Bellis perennis – Daisy	Helianthus – Annual Sunflower	Panicum – Switchgrass
Coreopsis - Coreopsis	Tagetes - Marigold	Pennisetum – Millet
Digitalis - Foxglove	Zinnia - <i>Zinnia</i>	Schizachyrium - Bluestem
Echinacea – Coneflower		
Helianthus – Perennial sunflower		
Heuchera – Coral Bells		
Lobelia – <i>Cardinal Flower</i>		
Monarda – Bee Balm or Bergamot		
Penstemon - Beardtongues		
Rudbeckia – Black-Eyed Susan		
Symphotrichum - Aster		



PLANTS THAT BIRDS LOVE



			HAI DIND		
PLANTS TO GROW	Prefers: S Sun	Prefers: A Avg.	VALUE Food for birds	WHEN	BIRDS THAT WILL ENJOY
** means Native	P Partial Sh Shade	M Moist D Dry	Cover Nesting material		
Abies grandis **- Grand Fir	P, Sh	A	Cover, insects, cones, nesting sites	Winter cover	Cone seeds: crossbills, jays, juncos, nuthatches, finches, nuthatches, chickadees, towhees, grosbeaks Nesting: tanagers, grosbeaks, robins
Abies lasiocarpa**- Subalpine Fir	S, P, Sh	A	Cover, insects, cones, nesting sites	Winter cover	Cone seeds: woodpeckers, nuthatches, juncos, chickadees, crossbills, siskins, grouse, owls
Acer – <i>Maple</i> Acer negundo – <i>Box Elder</i>	P, S	М	Catkins with seeds	Summer	Seeds: grosbeaks, purple finches, pine siskins, goldfinches, robins Nesting: nuthatches Insects: chickadees, nuthatches, wrens
Alnus glabrum** Douglas Maple Alnus glutinosa – <i>Black Alder</i> Alnus rubra **- <i>Red Alder</i>	S, P	M	Catkins with seeds	Fall	Cover: many birds Seeds: Finches, jays, tanagers, grosbeaks, sapsuckers, wood warblers, nuthatches, pine siskin, mallards, great blue herons, goldfinches Insects: Tanagers, buntings, grosbeaks Nesting: jays
Amelanchier alnifolia**– Saskatoon Serviceberry or Juneberry	P, S	А	Purple berries	Flowers: early summer; Fruit: Late summer	Fruit: woodpecker, robin, thrush, cedar waxwings, flicker, bluebird, towhees, chickadees, grosbeaks, jays, tanager, junco, kingbird, rouse, house finch Nesting: hummingbirds
Andropogon – Bluestem or Beargrass	S	A		Cover: summer Seeds: winter	Seeds: juncos, sparrow Nesting: meadowlarks, quail Nest-building materials
Aquilegia – <i>Columbine</i>	P, Sh	А	Nectar in flowers	Spring to Summer	Nectar: hummingbirds
Arctostaphylos uva-ursi**- Kinnikinnick	S, P	D	Bright orange- red berries	Fall	Fruit: many ground-eating birds
Aronia - Chokeberry	P, S	Α	Black & red berries Cover	Fall	Fruit: Black-capped chickadees, jays, cardinals, downy woodpeckers, goldfinches, mockingbirds, robins
Aster spp. Asters	S, P	Α	Seeds	Fall	Seeds: goldfinches, sparrows, chickadees, nuthatches, titmice, towhees, buntings, grouse, turkeys Leaves: grouse, wild turkeys
Betula nigra- River Birch Betula occidentalis** Water Birch Betula papyrifera** Canoe or Paper Birch	S, P	M	Seeds and flower buds		Seeds & buds: juncos, jays, pine siskins, titmice, chickadees, cedar waxwings, goldfinches, purple finches, towhees, wood ducks Insects: chickadees, warblers Catkins: grouse
Callicarpa - Beautyberry	P, S	Α	Purple fruits	Fall Winter	Fruits: Mockingbirds, robins, brown thrashers, towhees

PLANTS TO GROW	Prefers:	Prefers:	VALUE	WHEN	BIRDS THAT WILL ENJOY
	S Sun P Partial	A Avg. M Moist	Food for birds		
** means Native	Sh Shade	D Dry	Cover Nesting		
			material		
Campsis radicans- Trumpet	S, P	Α	Nectar in		Nectar: Hummingbirds
Vine			flowers		
Celtis occidentalis –	P, S	D	Purple berries	Late	Fruit: bluebirds, evening grosbeaks,
Hackberry				summer	mockingbirds, robins, thrashers,
Celtis reticulata – Netleaf				to winter	towhees, woodpeckers, wood
Hackberry					warblers, flickers, bunting
Cornus alternifolia- Pagoda	P, S	M	Blue or white	Summer	Fruit: mockingbirds, robins, wrens,
Dogwood			fruits (drupes)		bluebirds, pileated woodpeckers,
20911000					kingbirds, bunting, thrushes, kingbirds
Cornus racemosa	P,S, Sh	M	White fruit	Late	Fruit: flickers, tanagers, woodpecker,
Gray Dogwood				summer	kingbird, robin, thrush, grouse,
Cornus stolonifera**-					mockingbirds, sparrows
Red-osier Dogwood					
Coreopsis -Coreopsis	S	Α	Seeds after	Fall	Seeds
			flowering	- "	
Cosmos - Cosmos	S	Α	Seed after flowering	Fall	Seeds: juncos, house finches,
Crataegus spp – Hawthorn	P, S	Α	Apple-like fruits	Fall, into	sparrows Fruits: robin, purple finch, all
Varieties:	1,3		Apple like fruits	winter	grosbeak, cedar waxwing, jays,
Columbiana**					mockingbirds, flicker, thrush, sparrow
Douglasii**					Cover (thorns) & Nesting:
Joagiasii					hummingbirds
5	D. C.		Tubular flowers		Insects: chickadees, warblers, bushtits
Digitalis – Foxglove	P, S	Α	Seeds	Summer Fall	Flower nectar: Hummingbirds, goldfinches
Echinacea – Coneflower	P, S	Α	Seeds	Summer	Seeds: Goldfinches, bluebirds, many
Lemmacca concytower				Fall	songbirds
Fragaria spp-	P, Sh	Α	Fruits	Summer	Fruit: flicker, thrush, cedar waxwing,
Wild Strawberry					towhees, robin, grouse, quail,
		_			grosbeak
Grape	S	Α	Grapes	summer	Fruits: jays, cardinals, goldfinches, mockingbirds, robin, mourning dove
Helianthus - Sunflower	S	Α	Black seeds	Summer	Seeds: many, mourning doves, quail,
Tienantinus - Sunjiowei		,	Black Seeds	& fall	blackbirds, buntings, chickadees,
					finches, goldfinches, meadowlarks,
					nuthatches, sparrows, titmice
Holodiscus discolor**	S, P	D	Cover shrub		
Oceanspray			choice for hedgerow		
Ilex glabra –	S, P	Α	Red berries	Summer	Fruits: jays
Inkberry			Cover Thorns		
Ilex verticillata Winterberry	S, P	Α	Brilliant red	Fall and	Fruit: robins, flickers, jays, and many
,			berries	Winter	like other in Ilex family
Ilex vars Holly	P	Α	Cover Red berries	Fall, into	Fruit: flickers, bluebirds,
HEA VOIS HOHY			Cover	winter	mockingbirds, robins, jays, thrashers,
					cedar waxwings
	1		<u> </u>	1	

PLANTS TO GROW	Prefers:	Prefers:	VALUE	WHEN	BIRDS THAT WILL ENJOY
	S Sun P Partial	A Avg.	Food for birds		
** means Native	Sh Shade	M Moist D Dry	Cover Nesting		
		,	material		
Juniperus occidentalis**-	S	D	Green or blue	Fall	Berries: Grosbeaks, jays, robins,
Western Juniper			berries		downy woodpeckers, mockingbirds,
			Cover		quail, cedar waxwings, junco,
Juniperus scopulorum-					swallows, warblers, purple finch,
Rocky Mountain Juniper					flicker, thrush Nesting: bluebirds, chickadees,
					sparrow, robins, mockingbirds,
					juncos, warblers
Larix occidentalis** –	S, P	M	Cover, seeds		Needles: Grouse
Western Larch					Seeds: Crossbills, grouse, pine siskin,
					nuthatch, purple finch, goldfinch Nesting: tanager
Liquidambar - Sweet Gum	S	Α	Spiky brown	Fall	Seeds in pods: black-capped
Elquidambai Sweet Gam			pods		chickadee, cardinals, goldfinches
Lobelia cardinalis- Lobelia or	S, P	Α	Tubular flowers	Late	Flower nectar: hummingbirds
Cardinal Flower				summer,	
	C D Ch		Tubular flowers,	early fall	Elevery or extensible control of the de-
Lonicera - Honeysuckle	S, P, Sh	Α	later berry-like	Blooms spring;	Flower nectar: hummingbirds Fruit: goldfinches, mockingbirds,
			fruits	late	robins, thrush, grosbeaks, sparrow,
				summer	cedar waxwings, bluebirds,
				fruits	chickadees, finches
					Nesting: mockingbirds, sparrows,
Mahania ranans** Craaning	S, P	D	Fruit: blue berry		catbirds
Mahonia repens** Creeping Oregon Grape	3,1		Truit. Blue Berry		
Malus - Crabapple	S	Α	Tubular flower	Summer	Flower: hummingbirds
			and fruit;		Fruit: woodpeckers, cedar waxwings,
			Nesting sites in cavities for		catbirds, robins, mockingbirds,
			several species		evening grosbeak, flicker, house finch,
Miscanthus gracillimus-	S	Α	Seeds		many songbirds Seeds
Maidengrass			30003		Seeds
Monarda – Bee Balm	S, P	Α	Blossoms many	Late	Flower nectar: Hummingbirds
			colors	summer	
Morus - Mulberry	S	Α	White, pink or	Summer	Fruit: jay, catbird, woodpecker,
			purple blackberry-like		waxwing, kingbird, goldfinch,
			fruits (female		bluebirds, grosbeak, mockingbird, purple finch, warbler, robin, scarlet
			trees only)		tanager, wood thrush, titmouse,
			Many species find cover and		flicker, tanager
			nesting sites		
	_				
Panicum – Switchgrass	S, P	Α	Tiny seeds and cover	Fall	Quail, sparrows
Parthenocissus	P, Sh	Α	Blue-black fruits	Fall	Fruit: black-capped chickadees,
Virginia Creeper			Nesting sites		woodpeckers, mockingbirds, robins,
					tufted titmice, white-breasted nuthatches
					Nesting: house finches, bushtits
Penstemon –	S, P	Α	Tubular flowers		Flower nectar: hummingbirds
Beardtongues					

PLANTS TO GROW	Prefers:	Prefers:	VALUE	WHEN	BIRDS THAT WILL ENJOY
** means Native	S Sun P Partial Sh Shade	A Avg. M Moist D Dry	Food for birds Cover Nesting material		
Picea engelmannii** Engelmann Spruce Picea pungens- Colorado Spruce	S	M	Cover, winged seeds Nesting		Cover: chickadees, nuthatches, owls, woodpeckers Seeds: chickadees, nuthatches, crossbills, siskins, goldfinches, evening grosbeaks Nesting: many birds Needles: grouse
Pines albicaulis**- Whitebark Pine Pinus contorta var. 'latifolia'** Lodgepole Pine Pinus monticola** Western White Pine Pines ponderosa** Ponderosa Pine or Western Yellow Pine	S, P	D	Seeds in cones Insects High branches for roosting Cover Roosting sites Nesting sites	Seeds in fall	Seeds (50% of the diets of many birds): woodpeckers, black-capped chickadees, nuthatches, jays, finches, crossbills, grosbeaks, blue grouse, goldfinches, mourning doves Needs and buds: grouse Roosting sites: migratory robins Nesting sites: mourning doves, purple finches, warblers Ponderosa Seeds: juncos, finches, siskins, grosbeaks, sparrow, chickadees Ponderosa Roosts & Nesting Sites: eagles, hawks
Platanus x acerifolia- London Planetree or sycamore	S, P	M	Roosting sites in branches Seed-filled fruits Nesting materials Nesting sites		Fruits w seeds inside: cedar waxwings, chickadees, goldfinches, pine siskins, house finches, purple finches, mallards Nesting sites: woodpeckers Nesting materials: hummingbirds use fluffy flower down Nesting sites in cavities: woodpeckers, flickers, chickadees, titmice, bluebirds, tree swallows, screech owls
Populus tremuloides**- Quaking Aspen	S	M	Seeds and leaf buds	Winter	Seeds: goldfinches, grosbeak, great blue heron, grouse, quail, shrikes Nesting sites: many species use the cavities
Prunus spp – Cherry & Plum varieties Prunus virginiana**- Chokecherry	S, P	A	Fruits: Cherries Cover shrubs- particularly chokecherry which creates a thicket Chokecherry fruits are bitter; only grouse enjoy	Summer	Fruit: grosbeaks, cedar waxwings, blackbird, tanager, grouse, robins, catbirds, thrushes, flickers, jays, cardinals, downy woodpeckers, goldfinches, mockingbirds, robins
Psuedotsuga menziesii**- Douglas Fir	S	D	Cover Roosting sites		Seeds: nuthatches, crossbills, juncos, siskins
Pyracantha – Firethorn	S	А	Orange or red pomes (look like berries)	Fall, winter	Fruits: Quail, jays, grosbeaks

PLANTS TO GROW ** means Native	Prefers: S Sun P Partial	Prefers: A Avg. M Moist	VALUE Food for birds Cover	WHEN	BIRDS THAT WILL ENJOY
	Sh Shade	D Dry	Nesting material		
Quercus - Oak	S	A	Nuts: Acorns High branches for roosting Nesting sites Dense cover	Fall	Nuts: Nuts and insects: chickadees, titmice, flickers, grouse, jays, meadowlarks, nuthatches, mourning doves, thrushes, wood ducks, mallards, quail, grosbeaks, woodpeckers Male flowers: grosbeaks Nesting sites: tanagers
Rhododendron- Rhododendron and Azalea	P, Sh	M	Cover shrubs Flowers		Cover: many species Flower nectar: hummingbirds Insects: warblers Nesting sites: grosbeak Buds: grouse
Rhus glabra** - Smooth Sumac Rhus trilobata**- Oakleaf sumac	S, P	A	Yellow berries Cover	Fall and winter	Fruits: Bobwhites, chickadees, towhees, flickers, goldfinches, mockingbirds, robins, thrush, warblers, wild turkey, catbird, thrush, sparrows, phoebe
Ribes alpinum**- Alpine Current	S	А	Tubular flowers		Flower nectar: hummingbirds
Ribes aureum**- Golden Current					
Rosa nutkana** – Nootka Rose Rosa woodsia**- Wood's Rose	S	M	Rose hips Cover shrub, as naturalized or hedgerow	Rose hips in winter	Nesting sites: buntings, towhees, sparrows Fruit (rose hips): cedar waxwings, wood thrush, robin, bluebirds, grosbeaks, grouse, goldfinch, chickadees mockingbirds
Rudbeckia- Black Eyed Susan	S	A	Seeds		Seeds: favorite food for finches, house finches, goldfinches; also chickadees, sparrows, nuthatches, towhees, titmice
Salix bebbiana**- Bebb Willow Salix scouleriana**- Scouler Willow	S, P, Sh	M	Seeds in catkins Cover shrub, as naturalized or hedgerow		
Sambucus cerulean** Blue Elderberry Sambucus racemose var. melocarpa**- Black Elderberry	P, S	A	Black-purple berries Cover shrub, as naturalized or hedgerow	Summer	Fruits: robins (even before ripe), bluebirds, jays, cardinals, goldfinches, finches, towhees, thrashers, sparrow, mockingbirds, mourning doves, titmice, white-breasted nuthatches, flickers, woodpeckers, robins, grosbeaks, wax-wings, titmice
Schizachyrium Bluestem	S	Α	Seeds	Late summer	Seeds
Sorbus – Mountain Ash	S	A	Orange or red berries High branches	Fall	Fruits: Robins, white-breasted nuthatches, cedar wax-wings, grouse, grosbeaks, thrashers, catbirds
Symphoricarpus albus** Snowberry	S, P	D	White berries	Fall, winter	Fruits: grouse, songbirds

** means Native	Prefers: S Sun P Partial Sh Shade	Prefers: A Avg. M Moist D Dry	VALUE Food for birds Cover Nesting material	WHEN	BIRDS THAT WILL ENJOY
Syringa – <i>Lilac</i>	S, P	Α	Spring blooms	Spring	Flower: hummers Seed: chickadees, finches, grosbeak
Thuja occidentalis - <i>Arborvitae</i> Thuja plicata** - <i>Western Redcedar</i>	S, P	A	Blue or green berries Cover and high branches	Fall into winter	Cardinals, waxwings, mockingbirds, mourning doves, robins
Tsuga heterophylla**- Western Hemlock Tsuga mertensiana**- Mountain Hemlock	S, P	A	Cones with seeds Nesting sites Cover shrubs		Seeds: warblers, chickadees, pine siskins, crossbills, grosbeaks, thrushes, robins, grouse Nesting sites: warblers, robins, juncos, goldfinches, jays Cover Shrubs: chickadees, titmice, juncos and many other species
Vaccinium - <i>Blueberry</i>	P, S	A	Fruits: Berries	Spring to fall	Fruits: bluebirds, chickadees, grosbeaks, jays, robins, mourning doves, titmice, flickers, towhees, kingbirds Cover and Nesting Sites: sparrows
Vaccinium - Huckleberry	S, P	Α	Purple berries	Fall	Fruits: jays, mourning dove, robin
Viburnum lentago- Nannyberry	S, P	Α	Blue-black fruits Cover shrubs		Fruits: robins, flickers, waxwings
Viburnum trilobum – Cranberrybush	S, P	A	Red or black fruit	Fall	Fruits: grouse, wild turkeys, brown thrasher, cedar waxwings, bluebirds, grosbeaks, purple finches, robins, flickers
Weigela spp- Weigela	S, P	Α	Flowers	Summer	Flower nectar: Hummingbirds









PLANTS TO AVOID (get complete info at Spokane Co. Noxious Weed Control Board)

SHRUBS THAT CAN BECOME INVASIVE

Chaenomeles – Flowering quince

Polygonum – Japanese knotweed

Rhus typhina – Staghorn sumac

EXTRA VIGOROUS PERENNIALS TO WATCH OUT FOR

Achillea millefolium – Yarrow (not the varieties you might buy in containers or seed packets)

Convallaria majalis - Lily-of-the-valley

Coronilla varia - Crown vetch

Galium odoratum - Sweet woodruff

Gaura lindheimeri 'Whirling Butterflies' - Whirling Butterflies

Lanium maculatum - Dead nettle

Lysimachia nummularia – Creeping Jennie

Lysimachia punctate - Loosestrife

Mentha spp. – Mint

Physalis alkekengi – Chinese lanterns

Physostegia virginiana – False dragonhead

Polygonum cuspidatum – Japanese knotweed

Prunella spp. – Self heal

Romneya coulteri – Matilija poppy

Viola wittrockiana – Violet

EXTRA VIGOROUS GROUNDCOVERS THAT COULD GET OUT OF CONTROL

Aegopodium – podagraria – Bishop's weed

Anemone Canadensis – Meadow anemone (yes there are beautiful varieties you might purchase)

Coronilla varia - Crown vetch

Hedera helix – English ivy

Houttuynia cordata 'Chameleon' – Chameleon plant

Ranuncula – Creeping Buttercup (my most annoying weed in my garden)

Vinca major 'Variegata' - Variegated Periwinkle (not Vinca minor which has a much smaller leaf)

NOXIOUS WEEDS (some are pretty, some have seeds, but all cause tremendous problems)

Acroptilon repens - Russian Knapweed* (pink thistle-like blossom on billowy perennial)

Alliaria petiolate – Garlic Mustard* (lush upright green foliage w white blossoms- takes over SO FAST)

Anchusa officinalis – Common Bugloss* (biennial w/ fiddleneck blue blossom)

Berteroa incana – Hoary Alyssum* (airy, meadow look, but deadly to livestock)

Centaurea biebersteinii - Spotted Knapweed* (most recognized Spokane County noxious weed!)

Centaurea diffusa – Diffuse Knapweed* (fine leaved w/ tiny scattered flowers)

Centaurea solstitialis – Yellow Starthistle* (spreading, rigid, spiny annual w/ toxic yellow blossoms)

Chondrilla juncea – Rush Skeletonweed* (resembles dandelion w/ 10' taproot)

Cirsium arvense – Canada Thistle * (tall perennial w/ purple flowers)

Echium vulgare – Blueweed or Viper's Bugloss* (tall biennial w/ beautiful blue flower spikes)

Euphorbia esula – Leafy Spurge* (upright leafy plant causing blindness)

Euphorbia myrsinites – Myrtle Spurge* (low, succulent-looking plant that actually spits out seeds)

Hieracium aurantiacum – Orange Hawkweed* (hairy rosettes with erect orange bloom)

Hiercacium wall subgenus – Yellow Hawkweed* (aggressively matting perennial w/ yellow blossoms)

Kochia scoparia – Kochia* (annual w/ lance-shaped leaves, no bloom, but toxic to livestock)

Lepidium draba – Hoary Cress or White Top* (looks like tall alyssum)

Leucanthemum vulgare – Oxeye Daisy* (perennial resembling Shasta Daisy)

Linaria dalmatica – Dalmatian Toadflax* (tall perennial w/ yellow snapdragon-like blossom)

Lythrum salicaria – Purple Loosestrife* (water-needy, showy, erect perennial w/ violet blossoms)

Myriophyllum spicatum – Eurasian Watermilfoil* (submersed perennial w/feathery leaves)

Onopordum acanthium – Scotch Thistle* (largest thistle w/ spiny painful branches, pink blossoms)

Solanum rostratum – Buffalobur* (spiny, hairy annual w/ pretty yellow flowers)

Tribulus terrestris – Puncturevine or Goathead* (annual w/ yellow bloom then tire-piercing bur)

GUIDELINES FOR SUPPLEMENTAL FEEDING

Clean out the feeder regularly to prevent disease. Use a stiff brush, hot water, and if you use a mild detergent, rinse thoroughly. Allow the feeder to dry before adding seed. Provide only what will be consumed in 2-3 days to avoid spoiling, contaminating, or getting wet.



Avoid over-crowding by spreading out feeders. Keep the ground under any feeder clean of empty shells and bird droppings. Rake before putting out new seeds. Some bird species will prefer to eat seeds on the ground (Quail, Juncos) so allow them to "clean up" before you "clean up".

Birds are territorial. Chaos caused by over-crowding can cause fighting, and spread of disease.

Many birds hit windows when flying away from feeders, particularly if escaping predators. Feeders should be 3' or less, or more than 10' from windows.

Store the seeds in a dry place to protect from mildew and rodents. Buy and provide only the seeds that the local birds prefer. Observe what seeds are not being consumed, and stop buying mixes that include those seeds. Do not buy seeds that would attract undesirable birds (i.e. Starlings)

	White Millet	Red Millet	Milo	Black oiled Sunflower	Hulled Sunflower	Peanut kernel	Nijer Seed	Cracked Corn	Safflower Seed	Suet
Quail	*	*	*	*				*		
Titmouse				*		*				*
Woodpecker				*		*				*
Chickadee				*					*	*
Nuthatch				*						*
Bluejay			*			*		*		
Sparrow	*				*			*	no	
Grosbeak				*					*	
House Finch	*			*	*					
Pine Siskin				*			*			
Goldfinch	*	*		*			*			*
Towhee	*			*						
Junco	*			*						*
Bunting	*									
Starling			*							

When to Supplement: Spring: The need for supplemental feeding is acute in spring, when last season's fruits and seeds are gone and birds are nesting, laying eggs, and feeding. Females need calcium, available in crushed eggshells and oyster shells.

Summer: Nestlings and fledglings need protein. Offer mealworms, oatmeal, cornmeal, banana, peanut butter, suet, berries, etc.

Fall: Migrating birds need to fatten up before their journey. Offer winter treats early.

Winter: Birds will gain and lose 10% of their body weight each day. They eat early morning and dusk, so have feeders filled per their schedule, especially nuts a



COMPARISON OF BIRD FEEDER TYPES

The state of the s	1	I	1		ı
TYPE OF FEEDER	DESCRIPTION	PROS	CONS	WHICH	WHICH
				FOOD	BIRDS
Tube or Cylinder	Elevated, long, narrow, vertical, transparent tube	Popular w/ most birds, particularly		All seeds smaller than	Most
Feeder	vertical, transparent tube	social types		the holes in	Especially:
	Usually has numerous	300.0. 1, pes		the cylinder	Goldfinch
	perches set just below	Can feed many birds			Finches
	holes through which birds can extract seeds	at a time, so best for birds who socialize in			
	can extract seeds	groups			
	Longer perches attract	8 1. 1.			
	larger birds, shorter	You can add a cage			
	perches will keep large birds away and allow	to deter squirrels			
	smaller birds access	Seeds stay dry and			
		sanitary, as birds do			
	Some types are encased	not stand on seeds			
	in a cage to deter squirrels				
Hopper Feeder	Container of any shape or	Holds large quantity,	Easy for predator	All seeds	Most birds
	size, with closed sides,	so less frequent	to dominate		
	that contains the seeds, with a tray incorporated	refilling	(hawk, owl) or invader to steal		
	below, allowing seeds to	Practical for most	(squirrel,		
	drop into the tray (like a	birds to use	chipmunk)		
3	hopper)				
	Birds stand on tray edges	As birds stand on narrow tray's edge,	Seeds left too long will spoil		
A CHARLES	and eat out of the tray	they do not spoil	long will spon		
TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN		seed	Walls can harbor		
	Usually has a roof, where		moisture which		
	seed is added, and must be opened easily for	Walls usually prevent leaks and spoiled	permits mildew; protect in wet		
	thorough cleaning	food	weather		
	Often hangs from branch,	Walls are	Should be cleaned & dried		
	post or eave, making it elevated for safety	opportunities for decorating	before use		
Grand Communication of the Com	,				
Sock or	Hanging tube of fine or	Best feeder for tiny		Fine Mesh:	Goldfinch
Mesh	coarse mesh, usually nylon or plastic netting,	seeds		Nyjer	Finch varieties
Feeder	sometimes wire	Many "social" birds		Coarse Mesh:	Grosbeak
		can feed together		Peanuts	Titmouse
		Dinde de la t		Corn	Sparrow
		Birds do not contaminate the			Chickadee
		seed			
	Wire or plactic rigid arid	Highly valuable for	Beware of use in	Suet block or	Woodpaskar
Cust Cons on Callal Black	Wire or plastic rigid grid designed to hold standard	high protein, high fat	hot weather	cake (animal	Woodpecker Goldfinch
Suet Cage or Solid Block	sized molded suet block	foods that birds	when rancid fat	or vegetable	Finches
Holder		need, especially	can harm birds	fat block	Chickadee
1444	Block can also be any shape or size held in	during migration periods and during	and can be carried to their	holding any combination:	Nuthatch Junco
	place, on a stake or	cold winter months	nest	seeds, nuts,	Titmouse
	hanging			fruit, peanut	Jay
3				butter, jelly,	Bluebird
				cornmeal	Wren

Hummingbird Feeder	Transparent container for sugar-rich liquid with tubular devices only longbeaked birds can use; Feeder should have some red, but liquid should not have food coloring added	Hummers will remember exact location and return annually.	Cleanliness is critical.	Nectar or sugary liquid Mix 1 part white sugar to 4 parts boiling water, then cool before adding.	Hummingbird Oriole
Platform Tray Or Dish Feeder (or on the open ground with no feeder)	Open sided tray, often hanging from branch, post, or eave, but can be setting on the ground, on the deck, on the handrail of a deck, on a pedestal, on a birdbath Dish: Any smooth surfaced, open dish or container; great for jelly, fresh fruit, live mealworms	Popular w/ birds who prefer ground eating; can hold any fruit or seed; Could be any size or shape, so adaptable to your setting or style of house / garden Dish or tray: Can be thoroughly washed	Unless they have drain holes, seed can get wet and be ruined; work best in dry months or under cover. Food can become contaminated if birds stand on it and if not cleaned weekly	Any seeds Mealworms: Bluebird Robin Oriole Thrasher Wren Fresh fruit: Robin Cedar Waxwing Tanager Grosbeak Thrush Mockingbird	Juncos Doves Sparrow Quail

EXAMPLES OF COMBINATION FEEDERS







Tube / Platform



Suet / Platform



Suet / Hopper

YOU A CRAFTY OR ARTISTIC BIRDER?

If you decide to create your own bird feeder, incorporate the positive characteristics that are noted on the chart, and be wary of any disadvantages. For instance, after you sketch out your bird feeder design, you could adjust the size of the tray or the size of the roof if that addresses a possible disadvantage, while still maintaining your artistic vision. Be sure to address all the pragmatic considerations, such as location of the bird feeder, frequency of cleaning, time to set out each year, and what seeds to provide.



DIY Tube Feeder





Pottery Platform Feeder Hollowed Out Log Platform



Elegant Hopper Feeder

NESTING BOXES:

Location: Locate boxes where you can enjoy the birds, monitor the boxes, and access them for annual cleaning. Locate houses away from feeders. Provide 4 or less boxes per species per acre. Put one box per tree or post. Face the box toward the north or east, not the hot south or west. Bluebird and swallow boxes both need to be spaced by 75 yards.

Security: Boxes should be securely screwed to post, wall, or post. Monitor the boxes and remove squirrels, mice, snakes, insects, and invading birds, particularly in late winter. You can deter invaders with cones, wire baskets at the entry holes, slippery covers on posts, and careful location.

Cleanliness: Boxes should be hinged for annual pre-spring cleaning. Parasitic insects, molds, bacteria that could kill baby birds, must be removed in between broods. If you have a box without hinges, remove one side and install hinges and a clasp for cleaning ease. If insects invade, use a bird-safe insecticide; also you can coat inside top with bar soap.



Ventilation: to keep the box cool and safe, leave gaps between roof and sides of box, or drill holes just below the roof.

Drainage: Provide a sloped, overhanging roof to keep water out. Drill entrance hole with an upward slant. Locate ventilation holes close to the overhanging roof. Cut away all four corners of the box floor, and recess the floor ½" or more.

Accessibility: Entering birds and leaving nestlings need help. Roughen up the surfaces inside and outside, below the access hole, with grooves, wire mesh, or cleats.

Do not provide a perch, which would allow predator birds, and are not necessary.

Do not provide multiple-box types, as only Purple Martins, starlings, and house sparrows use them, and you do not want to invite them. Local birds prefer not to share.

The size of the hole will determine which birds will visit, in addition to box size and height above ground.

A roof overhang can prevent squirrels or larger birds from pecking a larger opening.

Hinged Panel: Either roof or one side should be hinged. Top / roof is best for peaking inside without disturbing nesting birds. Opening sides are easiest for cleaning out, but nestlings could fall out. If baby birds fall out, pick them up and return them immediately. Mother birds will not abandon them! They have poor smelling abilities.

Beauty: Wood is an excellent material. ¾" thick red cedar is durable and does not need treatment. Pine would be suitable if painted with latex paint (outside only). Dull, light colors would reflect heat and be less attractive to predators. Gourds, pottery, concrete, and plastic houses can work well. If assembling, glue first and use rust-proof fasteners.

The primary purpose is to provide safe nesting sites, so value construction over beauty: ventilation, drainage, accessibility, cleaning, etc.













NEST BOX & NESTING SHELF INFORMATION

SPECIES	Box Floor	Box Height	Entrance	Entrance	Placement
	Size	(in inches)	Height	Diameter	Height: feet
	(in inches)		(in inches)		above ground
American Robin*	7x8	8	-	-	6-15'
Bluebird (all types)	5x5	8-12	6-10	1-1/2"	4-6'
Chickadees and	4x4	8-10	6-8	1-1/8"	4-15'
Juncos					
Flycatcher	6x6	8-12	6-10	1-1/2"	5-15'
Titmice	4x4	10-12	6-10	1-1/4"	5-15'
Brown-headed	4x4	8-10	6-8	1-1/4"	5-15'
Pygmy and					
Red-breasted Nuthatches					
White-breasted Nuthatch	4x4	8-10	6-8	1-3/8"	5-15'
Warblers	5x5	6	4-5	1-1/8"	4-8'
Barn Swallow*	6x6	6	-	-	8-12'
Tree and	5x5	6-8	4-6	1-1/2"	5-15'
Violet-green Swallow					
Downy Woodpecker	4x4	8-10	6-8	1-1/4"	5-15'
Hairy Woodpecker	6x6	12-15	9-12	1-1/2"	8-20'
Northern Flicker	7x7	16-18	14-16	2-1/2"	6-20'
Pileated Woodpecker	8x8	16-24	12-20	3x4"	15-25'
Red-headed Woodpecker	6x6	12-15	9-12	2"	10-20'
House Wrens	4x4	6-8	4-6	1-1/4"	5-10'
Barn Owl	10x18	15-18	4	6"	12-18'
Screech Owl and	8x8	12-15	9-12	3"	10-30'
Kestrel					
Osprey**	48x48				
Red-tailed Hawk **	24x24				
Wood Duck	10x18	10-24	12-16	4"	10-20'
Great Horned Owl**	24x24				

^{*}Nesting Shelf: platform with three sides and an open front

^{**} Platform with no sides



Chickadees and Juncos



Screech Owl and Kestrel



Osprey and Eagle



Barn Owl



BIRD GARDEN WORKPLAN

Area:		_ Sunny	Part	
Shade Shady				
What plants are already there:				
Tree(s)	Shrub(s)			
Perennial(s)		Vine(s)		

Birds you have (or hope to have) and when

BIRDS	J	F	М	Α	М	J	J	Α	S	0	N	D

Over the year, add and subtract dots to help you plan other areas and other years.

What These Birds Need (green for existing plants, a different color for plants to add)

	Cover Shrubs	Colorful Flowers then Seeds	Seed or Berry Producers	Insects	Supplemental Seeds / Fruit in Feeders
Winter					
Spring					
Summer					
Fall					

Over the year, add and subtract observations about what plants produce and what birds like.



BIRD GARDEN WORKPLAN – example

Area:	east of deck		S	Sunny	Part Shade_	_X	Shady	
What p	plants are already there:							
Tree(s)	50' Pine, 5' weeping	cherry	Shrub(s)	(1) 5' Japan	nese Pieris,	(3) 4' J	uniper,	(2) Holly
Perenr	ial(s) <i>(5) Daylilies</i>	Vine(s) n	none					

Birds you have (or hope to have) and when (do your best; correct over time)

BIRDS	J	F	М	Α	М	J	J	Α	S	0	N	D
Quail		X	X		X			X	X	X		
Juncos			X	X	X	X						
Western Goldfinches	X	X	X	X	X	X	X	X	X	X	X	X
Hummingbirds				X	Х	Χ	X					
Black capped	X	X	X	X	X	X	X	X	X	X	X	X
Chickadees												
Pine Siskine	X	X	X	X	X	X	X	X	X	X	X	X
Northern Flicker							X	X	X	X		

Over the year, add and subtract dots to help you plan other areas and other years.

What These Birds Need (use green for existing plants, a different color for plants to add)

	Cover Shrubs	Colorful Flowers; then Seeds	Seed or Berry Producers	Insects	Supplemental Seeds / Fruit in Feeders
Winter	Juniper	Primrose	Holly-berry		Suet Black-oil sunflower
Spring	Juniper	Pieris – flower Weeping Cherry Digitalis Dianthus	Serviceberry	Pine	Black-oil sunflower Nyjer
Summer	Juniper	Pieris-seed Coneflower Bee Balm	Inkberry	Pine	Black-oil sunflower Nyjer
Fall	Juniper	Aster Joe Pye Weed	Holly-berry	Pine	Suet Black-oil sunflower

Over the year, add and subtract observations about what plants produce and what birds like.

LINKS ABOUT BIRDS

A good site to learn about the specific birds in Washington state:

http://www.whatbird.com/browse/objs/All/birds na 147/38/Location/274/Washington

https://avibase.bsc-eoc.org/checklist.jsp?region=USwasp

http://www.wabirder.com/spokane.html (where the Spokane County Checklist can be found)

Sites with information about plants that support birds:

http://www.almanac.com/sites/default/files/d6/shrubs trees 0.pdf

http://www.birdsandblooms.com/birding/attracting-birds/plants-and-trees-that-attract-birds/

To learn about local events, subscribe to the local Audubon newsletter, or read about birds:

http://www.spokaneaudubon.org

To follow birders in the local and global community:

https://ebird.org/about/resources

To learn about great hiking / birding outings:

https://wabirdguide.org/spokane-and-vicinity/

LINKS ABOUT NATIVE PLANTS

Washington Native Plant Society, Northeast Chapter: http://www.nechapterwnps.org/ This is full of excellent information and a huge plant directory, with photos and a lot of critical information.

SUGGESTED BOOKS TO READ

Attracting Birds, Butterflies, and other Backward Wildlife, 2004

by David Mizejewski, Naturalist with National Wildlife Federation (First and Second editions)

Garden Secrets for Attracting Birds, 2010

By Rachael Lanicci

Natural Gardening for Birds: Create a Bird-Friendly Habitat in Your Backyard, 2001

By Julie Zickefoose

Bird-by-Bird Gardening: The Ultimate Guide to Bringing in Your Favorite Birds - Year after Year, 2006

By Sally Roth

Birdscaping Your Garden, 1998

By George Adams

The Pacific Northwest Gardener's Book of Lists,

By Ray and Jan McNeilan