Conservation Trees for NORTH DAKOTA

	Mature Height	Growth Form	Cold Hardiness	Drought Resistance	Alkaline Tolerance	Wildlife Value	Growth Rate*
Deciduous Shrubs							
Russian Almond	3-5	Medium	G	F	F	G	M
Buffaloberry	6-14	Open	G	G	G	E	M
Caragana	6-14	Dense	G	G	G	G	M
Nanking Cherry	6-10	Open	G	G	F	F	M
Chokecherry	12-25	Medium	G	F	F	G	M
European Cotoneaster	8-12	Open	G	F	F	G	M
Golden Currant	3-6	Open	G	F	G	G	M
Redosier Dogwood	7-10	Medium	G	F	F	G	F
Tatarian Honeysuckle	10-12	Medium	G	F	G	G	M
Juneberry	6-15	Medium	G	F	F	E	S
Common Lilac	8-12	Dense	G	G	G	G	M
American Plum	8-10	Open	G	F	F	E	M
Hansen Hedge Rose	4-6	Medium	G	F	G	E	M
Sandcherry	3-6	Open	G	F	F	F	M
Silverberry	5-9	Medium	G	G	G	G	F
Lemonade Sumac	3-8	Open	G	F	F	F	M
Deciduous Trees							
Siberian Crabapple	15-25	Medium	G	F	F	G	M
Arnold Hawthorn	15-20	Dense	G	G	F	G	M
Amur Maple	15-20	Medium	G	F	P	F	M
Russian-olive	15-25	Medium	G	G	E	G	F
Green Ash	35-45	Open	G	G	G	F	M
Boxelder	30-40	Medium	G	F	F	F	F
Cottonwood	50-100	Open	G	P	G	F	F
Siberian Elm	25-40	Medium	G	F	G	F	F
Hackberry	40-50	Open	G	F	F	G	M
Silver Maple	40-50	Medium	F	P	P	F	F
Bur Oak	40-60	Medium	G	G	F	G	S
Poplar	40-60	Open	F	P	F	G	F
Black Walnut	35-45	Open	P	P	F	G	M
Golden Willow	40-55	Medium	F	P	F	G	F
Conifers							
Eastern Redcedar	30-35	Dense	G	G	G	E	S
Rocky Mt. Juniper	20-30	Dense	G	G	G	E	S
Ponderosa Pine	50-70	Medium	G	G	G	F	M
Scotch Pine	25-50	Medium	F	F	G	F	M
Black Hills Spruce	30-60	Dense	G	F	F	G	M
Colorado Blue Spruce	30-65	Dense	G	F	F	G	M

E-Excellent • G-Good • F-Fair • P-Poor

* F-Fast • M-Medium • S-Slow

All programs and services are offered on a nondiscriminatory basis in regards to race, color, national origin, sex, religion, age, disability, political beliefs, and marital or family status.

Almond, Russian

(Prunus tenella)

Mature Height: 3-5 feet
Growth Rate: slow
Growth Habit: upright, suckering
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: very good browse and cover
Flowers: abundant pink to rose
Other: prefers loamy soils, bears ovoid nut

Buffaloberry

(Shepherdia argentea)

Mature Height: 6-14 feet
Growth Rate: medium
Growth Habit: loosely branched thorny shrub
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: ideal cover, nesting, and browse; good late winter food source
Disease: stem decay, branch canker
Other: well-adapted to dry, moderately alkaline, and saline soils; berries used for jellies

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Caragana

(Caragana arborescens)

Mature Height: 6-14 feet
Growth Rate: medium
Growth Habit: erect, oval shrub
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: used for nesting
Flowers: small showy yellow
Pests: blister beetles
Disease: stem decay, leaf spot and branch cankers
Other: produces pods with multiple seeds

Cherry, Nanking

(Prunus tomentosa)

Mature Height: 6-10 feet
Growth Rate: medium
Growth Habit: upright, semi-spreading
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: fruit for songbirds, browse
Flowers: small pink
Disease: branch cankers
Other: prefers loamy soils, short-lived, excellent fruit for pies and jellies

Chokecherry

(Prunus virginiana)

Mature Height: 12-25 feet
Growth Rate: medium
Growth Habit: oval to rounded, suckering
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: excellent for food and cover
Flowers: creamy-white
Pests: prairie tent caterpillar
Disease: "western" x-disease, black knot, stem decay, shothole canker
Other: purple leaf selections for landscaping, adapted to wide variety of soils, fruits for jellies

Cotoneaster, European

(Cotoneaster integerrimus)

Mature Height: 8-12 feet
Growth Rate: medium
Growth Habit: spreading, open and upright arching branches
Cold Hardiness: good
Drought Resistance: poor
Wildlife Value: fruit attracts birds
Flowers: pinkish-white
Pests: pear slug
Disease: fireblight
Other: showy red berries, not adapted to alkaline or saline soils, should not be planted near crabapples

Currant, Golden

(Ribes odoratum)

Mature Height: 3-6 feet
Growth Rate: medium
Growth Habit: upright, spreading
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: roosting, loafing, nesting and browse
Flowers: fragrant golden-yellow
Pests: currant worm
Disease: anthracnose, leafspots, white pine blister rust host
Other: berries used fresh and for jelly

Dogwood, Redosier

(Cornus sericea)

Mature Height: 7-10 feet
Growth Rate: fast
Growth Habit: loose and rounded, many stems
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: dense cover and food source
Flowers: creamy
Disease: twig blight
Other: dark, blood-red bark provides winter color

Honeysuckle, Tatarian

(Lonicera tatarica)

Mature Height: 10-12 feet
Growth Rate: medium
Growth Habit: spreading
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: nesting and food
Flowers: yellow-pink
Other: plant only Russian aphid resistant cultivars

Juneberry

(Amelanchier alnifolia)

Mature Height: 6-15 feet
Growth Rate: slow
Growth Habit: upright
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: high quality cover and food
Flowers: white
Other: nutritious fruit used fresh, frozen or processed

Lilac, Common

(Syringa vulgaris)

Mature Height: 8-12 feet
Growth Rate: medium
Growth Habit: upright, leggy, suckering
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: little value for fruit or browse, songbird nesting
Flowers: white to purple, fragrant and showy
Pests: lilac borer
Disease: powdery mildew

Plum, American

(Prunus americana)

Mature Height: 8-10 feet
Growth Rate: medium
Growth Habit: round-headed crown, suckers freely
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: important for nesting, loafing, browse and food
Flowers: white
Pests: prairie tent caterpillar
Disease: stem decay, branch cankers, black knot, plum pockets
Other: thorny, winter-hardy, thicket-forming tall shrub with edible fruit

Rose, Hansen Hedge

(Rosa species)

Mature Height: 4-6 feet
Growth Rate: medium
Growth Habit: stems upright, semi-weeping
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: excellent food source, nesting and cover
Flowers: showy pink
Other: fruit referred to as a rose hip and a source of Vitamin C

Sandcherry

(Prunus besseyi)

Mature Height: 3-6 feet
Growth Rate: medium
Growth Habit: open, spreading shrub
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: good loafing, food source and browse
Flowers: white
Disease: leaf curl, black knot, fireblight
Other: relatively short-lived, fruit for pies and jellies

Silverberry

(Elaeagnus commutata)

Mature Height: 5-9 feet
Growth Rate: medium
Growth Habit: narrow, upright, suckers profusely
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: dense thickets and food source
Pests: subject to damage by rabbits
Disease: branch cankers
Other: silver-white leaves

Sumac, Lemonade

(Rhus trilobata)

Mature Height: 3-8 feet
Growth Rate: medium
Growth Habit: ascending, new branchlets hairy
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: fall and winter food for birds
Flowers: light yellow
Other: scented leaves

Crabapple, Siberian

(Malus baccata)

Mature Height: 15-25 feet
Growth Rate: medium
Growth Habit: round to spreading
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: fair cover, good fruit and browse
Flowers: white
Pests: cankerworm, apple maggot
Disease: fireblight, cedar-apple rust, apple scab, canker
Other: needs a well-drained, moist soil; should be protected from girdling or browsing; should not be planted near juniper, cedar or cotoneaster

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Hawthorn, Arnold

(Crataegus arnoldiana)

Mature Height: 15-20 feet
Growth Rate: slow
Growth Habit: upright to horizontal
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: nesting, food and browse
Flowers: white with a disagreeable odor
Other: tolerates the soot and grime of cities, large thorns

Maple, Amur

(Acer ginnala)

Mature Height: 15-20 feet
Growth Rate: medium
Growth Habit: multi-stemmed
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: browse, fair cover
Other: adaptable to a variety of soils, except alkaline, sensitive to phenoxy herbicides, outstanding bright reddish fall colors

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Russian-olive

(Elaeagnus angustifolia)

Mature Height: 15-25 feet
Growth Rate: fast
Growth Habit: branches random and spreading
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: excellent
Disease: branch and stem cankers
Other: tolerates saline/alkaline soils, may invade unmanaged bottomlands and moist pastures, thorny, silver leaf color

Ash, Green

(Fraxinus pennsylvanica)

Mature Height: 35-45 feet
Growth Rate: medium
Growth Habit: single trunk, oval to elliptical crown
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: nesting site
Pests: cankerworms, ash borers, ash plant bugs
Disease: stem decay, branch and twig cankers, anthracnose, leaf rust, ash yellows
Other: can withstand flooding for short periods of time

Boxelder

(Acer negundo)

Mature Height: 30-40 feet
Growth Rate: fast
Growth Habit: short crooked trunk, commonly divides into several stout and widespreading branches
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: food and cover
Pests: boxelder bugs
Disease: stem decay
Other: grows best on well-drained moist soils, highly sensitive to phenoxy herbicides

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Cottonwood

(Populus deltoides)

Mature Height: 50-100 feet
Growth Rate: fast
Growth Habit: upright, branches spread to form a large open crown
Cold Hardiness: good
Drought Resistance: poor
Wildlife Value: browse
Pests: aphids, gall mite, leaf beetles
Disease: leaf rust, leaf spot and canker, wetwood, stem decay
Other: requires a moist site

Elm, Siberian

(Ulmus pumila)

Mature Height: 25-40 feet
Growth Rate: fast
Growth Habit: open with several ascending branches
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: nesting sites
Pests: cankerworm
Disease: canker, wetwood
Other: highly sensitive to phenoxy herbicides
brittle wood which is subject to breakage

Hackberry

(Celtis occidentalis)

Mature Height: 40-50 feet
Growth Rate: medium
Growth Habit: single trunk, broadening crown
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: fruit for birds and mammals
Pests: commonly damaged by browsing rodents, rabbits and deer
Other: good replacement for the elm because of its similar form and adaptability, somewhat tolerant to alkaline soils

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Maple, Silver

(Acer saccharinum)

Mature Height: 40-50 feet
Growth Rate: fast
Growth Habit: upright with strong spreading branches
Cold Hardiness: fair
Drought Resistance: poor
Wildlife Value: browse, fair cover
Other: not adapted to saline/alkaline soils, very subject to iron and manganese chlorosis in alkaline soils, sensitive to phenoxy herbicides, plant in protected sites

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Oak, Bur

(Quercus macrocarpa)

Mature Height: 40-60 feet
Growth Rate: slow
Growth Habit: stout branches, informal spreading to rounded
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: excellent food and cover
Pests: commonly damaged by rodents, rabbits and deer
Disease: leaf and twig anthracnose, leaf curl, stem decay
Other: long lived tree with deep taproot

Poplar, Hybrid

(Populus hybrids)

Mature Height: 40-60 feet
Growth Rate: fast
Growth Habit: upright spreading branches
Cold Hardiness: fair
Drought Resistance: poor
Wildlife Value: browse
Pests: poplar borer, aphids, gall mite, leaf beetles, rodents, deer
Disease: leaf rust, leaf spot, canker, wetwood, stem decay
Other: requires a moist site, lacks cold and drought hardiness of the native cottonwood

Walnut, Black

(Juglans nigra)

Mature Height: 35-45 feet
Growth Rate: medium
Growth Habit: oval to rounded crown
Cold Hardiness: poor
Drought Resistance: poor
Wildlife Value: good food and cover
Other: prefers deep, well-drained, fertile, loamy soils, valuable timber tree, plant in protected sites

Willow, Golden

(Salix alba 'Vitellina')

Mature Height: 40-55 feet
Growth Rate: fast
Growth Habit: large, spreading to round crown
Cold Hardiness: fair
Drought Resistance: poor
Wildlife Value: provides cover, browse
Pests: aphids
Other: branches shed easily

Juniper, Rocky Mountain

(Juniperus scopulorum)

Mature Height: 20-30 feet
Growth Rate: slow
Growth Habit: dense pyramidal, upward reaching branches
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: excellent food, nesting, and cover
Pests: spider mites
Disease: cedar-apple rust, tip blight
Other: should not be planted near crabapples, juneberries, currant or hawthorns

Pine, Ponderosa

(Pinus ponderosa)

Mature Height: 50-70 feet
Growth Rate: medium
Growth Habit: pyramidal when young
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: food and nesting for birds
Pests: tip moth, sawfly, pine needle scale, aphids
Disease: needle cast, gall rust
Other: tolerates saline and alkaline soils

Pine, Scotch

(Pinus sylvestris)

Mature Height: 25-50 feet
Growth Rate: medium
Growth Habit: rounded and open
Cold Hardiness: fair
Drought Resistance: poor
Wildlife Value: nesting and winter cover
Pests: tip moth, sawfly, pine needle scale, aphids
Disease: needle cast, gall rust
Other: prefers moist well-drained soils

Redcedar, Eastern

(Juniperus virginiana)

Mature Height: 30-35 feet
Growth Rate: slow
Growth Habit: dense pyramidal
Cold Hardiness: good
Drought Resistance: good
Wildlife Value: excellent food, nesting and cover
Pests: spider mites
Disease: cedar-apple rust, tip blight
Other: should not be planted near crabapples, juneberries, or hawthorns

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Spruce, Black Hills

(Picea glauca var. densata)

Mature Height: 30-60 feet
Growth Rate: medium
Growth Habit: broad pyramidal to conical crown
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: nesting, browse, good cover
Pests: spider mite, spruce needle miner, pine needle scale, yellow-headed spruce sawfly, aphids
Disease: needle blight
Other: grows best on moist loams

Spruce, Colorado Blue

(Picea pungens)

Mature Height: 30-65 feet
Growth Rate: medium
Growth Habit: branching is broad and dense, branches extending to ground
Cold Hardiness: good
Drought Resistance: fair
Wildlife Value: nesting site
Pests: spider mites, spruce needle miner, pine needle scale, yellow-headed spruce sawfly, aphids
Disease: needle cast, canker, needle blight
Other: performs best on moist, well-drained loams

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Contact your local soil conservation district office for assistance in designing your tree planting.

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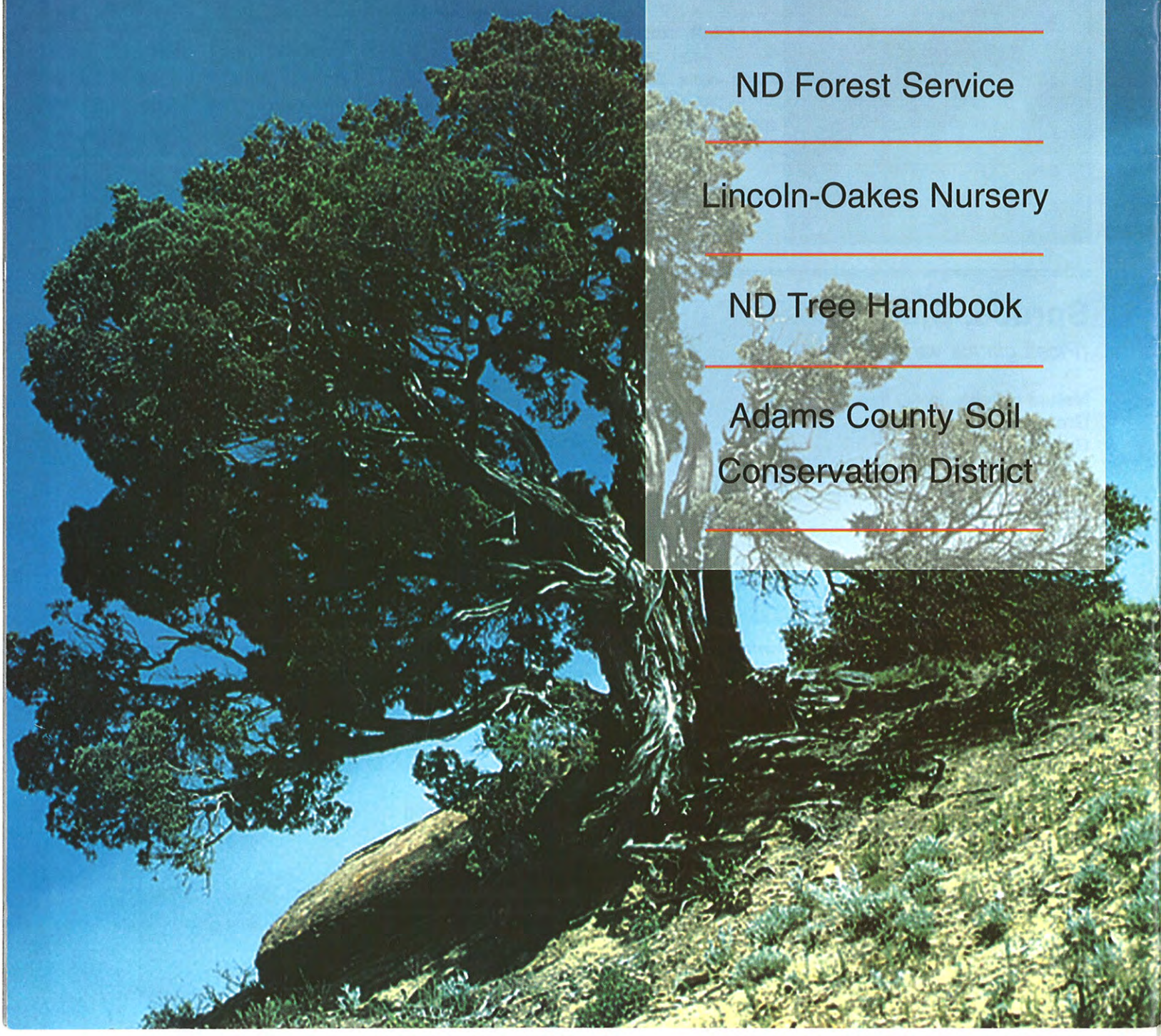
ND Tree Handbook

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