

TABLE HEADING ABBREVIATIONS

<u>ABBREVIATION</u>	<u>MEANING</u>
AWNS	PRESENCE OR ABSENCE OF AWNS (BEARDS)
CEPH	CEPHALOSPORIUM
COMM	COMMON BUNT
CVRD	COVERED
DWRF	DWARF
EMRG	EMERGENCE
FOOT ROT	CERCOSPORELLA FOOT ROT
GLUME	GLUME COLOR
HEAD DATE	HEADING DATE
HGT	HEIGHT
HY	HIGH YIELDING AREAS (RAINFALL >14")
IR (IRR)	IRRIGATED SITES
KRNL	KERNEL COLOR
LODG	LODGING RATING
LOOS	LOOSE SMUT
LY	LOW YIELDING AREAS (RAINFALL < 14")
MLDW	MILDEW
ST	STATE OF RELEASE OR COMPANY
STRP	STRIPE
TEST WGT	TEST OR BUSHEL WEIGHT
VRNL RQMT	VERNALIZATION REQUIREMENT
WNTR HARD	WINTER HARDINESS
YR	YEAR OF RELEASE

TABLE 1. AGRONOMIC CHARACTERISTICS OF SOFT WHITE WINTER WHEATS

	RELEASED		AGRONOMIC CHARACTERISTICS								
	YR	ST	EMRG ¹	WNTR ¹ HARD	VRNL ² RQMT	HEAD ³ DATE	HGT ⁴	LODG ⁵	TEST ¹ WGT	AWNS ⁶	GLUME ⁷
<u>COMMON</u>											
DAWS	1976	WA	4	8	M	M	M*	R	7	A	W
DUSTY	1984	WA	6	7	-	M-L	M*	MR	7	A	W
GAINES	1961	WA	5	6	S	M	M*	R	7	A	W
HILL 81	1981	OR	8	7	M	M	MT*	R	8	A	W
HYSLOP	1970	OR	7	4	W	M	MT*	R	7	A	W
LEWJAIN	1982	WA	6	5	M	L	M*	R	7	A	W
MCDERMID	1974	OR	7	6	W	M	M*	MR	7	A	W
NUGAINES	1961	WA	5	7	S	M	M*	R	8	A	W
STEPHENS	1977	OR	5	3	W	E-M	M*	R	7	A	W
YAMHILL	1969	OR	7	3	M	M	MT-T	MR	7	ALD	W
<u>CLUB TYPES</u>											
BARBEE	1976	WA	5	5	M	M-L	M*	R	5	A	B
CREW ⁸	1981	WA	6	6	M	M	MT*	MR	5	ALS	W-B
FARO	1976	OR	6	5	M	E-M	MT*	R	5	ALS	B
JACMAR	1978	PR ⁹	5	7	M	E-M	S-M*	R	5	ALD	B
MORO	1965	OR	8	5	M	E-M	T	MS	5	ALS	B
PAHA	1970	WA	6	5	M	M	SM	R	6	ALD	B
TRES	1984	WA	5	6	M	M	M*	R	7	ALS	W
TYEE	1979	WA	5	6	M	M	MT*	R	5	ALS	W

1 Scale of 1 to 10, 5 =adequate

2 Vernalization requirement; S=strong, M=moderate, W=weak

3 E=early, M=midseason, L=late

4 * =semidwarf; S=short, M=medium, MT=midtall, T=tall

5 S=susceptible, R=resistant, T=tolerant, M=moderately

6 A=awned, ALD=awnletted, ALS=awnless

7 W=white, B=brown

8 Crew is a multiline variety containing ten components, some of which are susceptible to the rust diseases

9 Private release

1983 DISEASE RATINGS¹

COMMON	RUST		BUNT		FLAG	CEPH ²	SEPT-	FOOT	TAKE
	STRP	LEAF	COMM	DWRF	SMUT	STRP	ORIA	ROT	ALL
DAWS	MR	MS	R	S	MS	MR	MS	T	MS
DUSTY	MR	MR	R	S	MR	MS	--	S	S
GAINES	MR	S	R	S	MR	--	--	S	S
HILL 81	MR	MR	R	S	S	MR	MT	S	S
HYSLOP	MS	S	R	S	S	S	MS	MS	S
LEWJAIN	MR	MS	R	MR	S	MR	MT	S	S
MCDERMID	MR	MS	R	S ⁵	S	--	MS	--	S
NUGAINES	MR	S	R	S	MR	MR	MS	S	S
STEPHENS	MR	MR	R	S	MS	S	MS	MR	S
YAMHILL	MS	MR	S	S	MR	MS	MS	T	S
<u>CLUB TYPES</u>									
BARBEE	S	S	R	MS	MS	MR	--	S	S
CREW ⁴	MR-S	MR	MR	S	MS	MS	--	T	S
FARO	S	S	R	S	MS	S	MS	MS	S
JACMAR	S	S	R	-- ⁵	MS	MS	MT	T	S
MORO	S ³	S	R	R	MR	MR	--	MS	S
PAHA	S	S	R	S	S	MR	--	T	S
TRES ⁶	MR	MR	MR	S	S	MS	--	MT	S
TYEE	S ³	S	R	S	S	MR	--	T	S

1 R=resistant, MR=moderately resistant,
MS=moderately susceptible, S=susceptible,
S=susceptible, T=tolerant, MT=moderately tolerant,
-- = reaction unknown

2 Resistance to cephalosporium seems to vary with environment.
Resistance may be due to morphological growth patterns rather
than true genetic resistance.

3 These two varieties have shown some resistance.

4 Crew is a multiline variety composed of ten separate
lines, some of which are rust susceptible

5 Omar, the parent cultivar of Jacmar, was resistant
to dwarf bunt; McDermid has resistance to some races

6 Resistant to powdery mildew; Tres = resistance to three
foliar diseases

TABLE 3. AGRONOMIC CHARACTERISTICS FOR HARD RED WINTER WHEATS

RELEASED		AGRONOMIC CHARACTERISTICS							DISEASE ⁴		YIELD RANK ⁷	
YR	ST	WNTR ¹ HARD	HEAD ² DATE	HGT ³	LODG ⁴	TEST ⁵ WGT	AWNS ⁶	STRIP RUST	LEAF RUST	HIGH	LOW	
HATTON	1979	WA	A	M-L	M	MR	8	A	MR	S	2	1
WANSER	1965	WA	A	E-M	MT	R	8	A	MR	S	4	2
WESTON	1978	ID	G	E	MT	R	8	A	MS	MS	3	1
OR8313	?	OR	A	E	S-M	R	8	A	MR	R	1	1
WA6816	1985	WA	F	M-L	S-M	R	7	A	R	MS	1	1

1 = winter hardiness; F=fair, A=average, G=good

2 = early, M=midseason, L=late

3 = height; S=short, M=medium, T=tall

4 = MR=moderately resistant, R=resistant, MS=moderately susceptible, S=susceptible

5 = bushel weight; scale of 1 to 10, 5 being average

6 = A=awned, AL=awnletted, ALS=awnless

7 = yield rank in high and low production potential sites; ranking of 1 is highest

TABLE 4. AGRONOMIC CHARACTERISTICS FOR SOFT WHITE SPRING WHEATS

	RELEASED		AGRONOMIC CHARACTERISTICS					DISEASE REACTION ³		
	YR	ST	HEAD ¹ DATE	HGT ²	LODG ³	TEST ⁴ WGT	AWNS ⁵	STRIP RUST	LEAF RUST	MLDW
BLISS	1984	ID	M-L	MT	R	5	A	R	MS	MR
DIRKWIN	1978	ID	E-M	M	R	5	ALS	MR	S	R
EDWALL	1984	WA	E-M	M	R	6	A	R	R	MS
FIELDER	1974	ID	M	M	R	7	A	S	MR	MR
FIELDWIN	1977	ID	E-M	M	R	6	A	S	MR	MR
OWENS	1981	ID	E-M	M	MR	7	A	R	MR	MS
STERLING	1980	ID	E-M	M	R	7	A	S	MR	MR
TWIN	1971	ID	M	M	R	5	ALS	MS	S	S
URQUIE ⁷	1975	WA	M-L	MT	R	7	A	MR	S	MS
WS-1	1972	WS ⁶	M-L	MT	MR	6	A	--	S	R
WALLADAY ⁷	1978	WA	M-L	M	R	5	A	MR	S	MS
WAVERLY ⁸	1982	WA	M	M	R	6	A	MR	MR	S

1 E=early, M=midseason, L=late

2 All are semi-dwarfs; S=short, M=medium, MT=medium tall, T=tall

3 MR=moderately resistant, R=resistant, MS=moderately susceptible, S=susceptible, -- reaction unknown

4 scale of 1 to 10, 5 being average

5 A=awned, AL=awnletted, ALS=awnless

6 private release; WS=World Seeds

7 facultative winter wheat - can be planted in winter, but hardiness is poor

8 MR to stem rust

TABLE 5. AGRONOMIC CHARACTERISTICS FOR HARD RED SPRING WHEATS

	RELEASED		AGRONOMIC CHARACTERISTICS					DISEASE REACTIONS ³	
	YR	ST	HEAD ¹ DATE	HGT ²	LODG ³	TEST ⁴ WGT.	AWNS ⁵	STRIP RUST	LEAF RUST
ANZA	1971	CA	M	SD-S	R	7	A	R	R
BORAH	1974	ID	E-M	SD-M	R	7	A	R	R
FORTUNA ⁷	1966	ND	E-M	MT	MR	7	ALS	R	R
McKAY	1981	ID	E-M	SD-M	R	7	A	R	R
PROFIT 75	1975	WS ⁶	E-M	SD-M	R	7	A	R	R
PROSPUR	1971	NK ⁶	VE	SD-MT	MR	7	A	MR	S
SAWTELL	1977	ID	M	SD-M	R	6	A	MR	MR
SHASTA		CA	E-M	SD-M		7	A	R	MR
WS-6	1973	WS ⁶	E-M	SD-M	R	5	A	--	R
WAMPUM	1978	WA	E-M	MT	R	6	A	R	R
WARED	1974	WA	L	SD-M	R	6	A	MR	--
WB906R	1980	WP ⁶	E-M	SD-M	R	7	A	R	R
YECORA ROJO	1976	CA	E	SD-VS	R	6	A	R	MR
YOLO ⁸	1981	CA	E-M	SD-S	R	7	A	R	S

¹ E=early, M=midseason, L=late

² SD=semi-dwarf, S=short, M=medium, T=tall

³ MR=moderately resistant, R=resistant, MS=moderately susceptible, S=susceptible

⁴ scale of 1 to 10, 5 being average

⁵ A=awned, AL=awnletted, ALS=awnless

⁶ private release, WS=World Seeds, NK=Northrup King, WP=Western Plant Breeders

⁷ stem rust resistant and sawfly resistant

⁸ has outyielded Anza and Yecora Rojo in California trials

TABLE 6. AGRONOMIC CHARACTERISTICS FOR WINTER BARLEYS

RELEASED		AGRONOMIC CHARACTERISTICS								DISEASE REACTION ⁵		ADAPTATION ²		
YR	ST	TYPE ¹	WINIR ² HARD	HEAD ³ DATE	HGT ⁴	LODG ⁵	TEST ⁶ WGT	AWN ⁷	SCALD	SMUT	RAINFALL <14" >14"		IRR	
BOYER	1975	WA	6F	F	M	M	MR	4	R	MS	MR	P	G	G
HESK	1980	OR	6F	F	M-L	M	MR	4	R	MS	S	P	G	G
HUDSON	1951	NY	6F	G	E-M	MT-T	MS	7	R	MR	MR	G	P	P
KAMIAK	1971	WA	6F	G	E	MT	I	6	R	MR	MR	G	P	P
LUTHER	1966	WA	6F	F	L	MS	MS	4	R	MS	MR	F	G	F
MAL	1980	OR	6F	F	M-L	M	MR	4	R	MR	MR	P	G	G
SCHUYLER	1969	NY	6F	G-E	M-L	MS	MS	6	R	MR		P	G	G
SCIO	1981	OR	6F	F	M	MS	VR	5	SR	MS		P	G	G
STEPHENS ⁸	1973	WA	6F	F	E-M	M	MS	7	R	MS		G	G	P
WINTERMALT	1982	NY	6M	G	E-M	MS	MS	5	SR	S	MR	G	F	F

¹ 6F=six-row feed barley, 6M=six-row malting barley

² P=poor, F=fair, G=good, E=excellent

³ E=early, M=midseason, L=late

⁴ S=short, MS=midshort, M=medium, MT=midtall, T=tall

⁵ MS=moderately susceptible, I=intermediate,
MR=moderately resistant, R=resistant

⁶ Scale of 1 to 10 with 5 being average

⁷ R=rough, SR=semi-rough

⁸ A spring barley with a moderate level of winter hardiness

TABLE 7. AGRONOMIC CHARACTERISTICS FOR SPRING BARLEYS

RELEASED		AGRONOMIC CHARACTERISTICS							DISEASE REACTION ⁸			ADAPTED ¹¹		
YR	ST	TYPE ¹	HEAD ³ DATE	HGT ⁴	LODG ⁵	TEST ⁶ WGT	AWN ⁷	LOOS SMUT	CVRD SMUT	MILD	LY	HY	IR	
ANDRE	1983	WA	2M	M	S-M	R	9	-	--	--	MS	G	G	G
ADVANCE	1979	WA	6M ²	E	SM	R	8	R	--	--	S	P	G	G
BELFORD	1943	WA	6F	M	M-T	MS	6	H	--	--	--	-	-	-
BLAZER	1974	WA	6M	M	M-T	MR	8	R	--	--	--	P	G	G
COLUMBIA	1983	WPB ¹²	6F	L	SM	R	8	R	S	--	R	-	-	G
FLYNN 37	1941	OR	6F	E	S-M	MR	7	-	--	--	--	-	-	-
GEM	1947	ID	6F	E	S-MT	MR	8	S	S	S	--	G	A	G
GUS ¹⁰	1978	WPB ¹²	6F	L	S	R	9	-	--	--	R	-	-	-
GUSTOE	1983	WPB ¹²	6F	E-M	S	R	10	-	--	--	-	-	G	G
HECTOR	1973	CAN	2F	M	M-T	MR	-	R	MS	MS	-	G	A	-
KARL	1974	ID	6M	E-M	-	I	-	R	S	S	S	-	G	G
KIMBERLY	1977	ID	2M	MS	M	R	10	R	--	--	--	-	-	G
KLAGES	1972	ID	2M	M	MT	R	9	R	--	--	--	P	G	G
KOMBAR	1977	NK	2F	L	S	R	6	-	--	--	--	-	G	G
LARKER	1961	ND	6M	E-M	MT	MR	7	R-S	MS	MS	MS	-	G	G
LUD	1975	NAPB ¹²	2F	L	S-M	R	9	-	--	--	--	-	-	-
MOREX ⁹	1978	MN	6M	E-M	MT	MR	-	S	R	--	S	-	-	-
PISTON	1982	VDH ¹²	2F	M	SM	MR	9	R	S	--	R	-	-	-
POCO ¹⁰	1980	AC ¹²	6F	E	S	R	6	-	-	--	S	-	-	-
STEPTOE	1973	WA	6F	E-M	M	R	8	R	-	--	MS	G	G	G
STEVE	1982	ID	6F	M	M	R	8	R	-	--	--	P	P	G
SUMMIT	1977	NAPB ¹²	2M	L	M	R	9	-	S	S	R	-	-	-
UNITAN	1960	MT	6F	E	MT	MR	8	S	R	R	-	-	-	-
VANGUARD	1971	WA	2M	ML	MT	R	9	R	-	-	-	P	G	G

- 1 6=six row, 2=two row, F=feed type, and M=malt type
- 2 chicken feeding trials have shown Advance is equal to Vanguard and Blazer and superior to Steptoe in feeding value
- 3 E=early, M=midseason, L=late
- 4 S = short, M = medium, MT = midtall, T = tall
- 5 S=susceptible, I = intermediate, MR = moderately resistant, R = resistant, -- = reaction unknown
- 6 scale of 1 to 10, with 5 being average (47 lbs. in a 'normal' year)
- 7 R=rough, S=smooth, H=hooded
- 8 R=resistant, S=susceptible
- 9 Morex is R to stem rust, MR to spot blotch, S to blight
- 10 S to leaf rust, may be tolerant of BYDV
- 11 LY = low yielding, HY = high yielding, IR = irrigated, P = poor, A = average, G = good
- 12 Private releases: VDH=Van der Have, NAPB=N. American Plant Breeders, AC=Anderson, Clayton & Co.; WPB = Western Plant Breeders

TABLE 8. AGRONOMIC CHARACTERISTICS FOR SPRING AND WINTER OATS

	RELEASED		AGRONOMIC CHARACTERISTICS					
	YR	ST	KRNL ¹ COLOR	WINTR ² HARD	HEAD ³ DATE	HGT ⁴	LODG ⁵	TEST ⁶ WGT
<u>SPRING</u>								
APPALOOSA	1978	WA	YG	P	E	MT	MR	4
BORDER	1982	WY	W	P	M	S	R	4
CAYUSE	1968	WA	LY	P	EM	S	R	4
CORBIT	1977	ID/OR	LY	P	M	M	R	5
KANOTA	1920	KY	R	F	E	MT	MR	4
MENOMINEE	1976	MI	W	P	M	T	MS	5
OTANA	1976	MT/ID	W	P	EM	MT	MR	5
PARK	1953	ID	W	P	M	MT	MR	5
<u>WINTER TYPES</u>								
AMITY	1972	OR	W	G	ML	MT	R	7
CRATER	1956	OR	G	G	L	T	MR	5
GREY WINTER	1873	?	G	G	L	VT	S	6
LANE	1969	OR	LRG	G	ML	MT	MR	6
MONTEZUMA	1969	CAL	GR	F	EM	S	R	4
WALKEN	1970	KY	LRY	G	M	S-MT	R	7

1 L=light, Y=yellow, G=grey, R=red, W=white

2 P=poor, F=fair, G=good

3 E=early, M=medium, L=late

4 S=short, MT=mid-tall, T=tall, VT=very tall

5 S=susceptible, MR=moderately resistant, R=resistance, T=tolerant

6 Scale of 1 to 10, 5 being average