Appendix to Practice Guide for Cover Crop (340)

PLANT SPECIES Cool-Season Growth*			OTHER CONSIDERATIONS						
	Reduce erosion	Increase soil health and organic matter	Utilize (scavenge) excess nutrients	Suppress weeds/pests	Minimize Subsoil	compaction Surface soil	N fixation	Host for Arbuscular Mycorrhizal Fungi	Beneficial Pollinato
Winter Rye*	5	5	5	5	3	5	N	Y	N
Winter Barley*	5	4	4	4	3	5	N	Y	N
Winter Wheat*	4	4	4	4	3	5	N	Y	N
Winter Triticale*	5	5	5	5	3	5	N	Y	N
Oats*	4	4	4	5	1	5	N	Y	N
Annual Ryegrass	4	4	4	4	3	5	N	Y	N
Warm-Season Growth*									Sector 1
Sorghum Sudangrass*	5	5	5	5	5	3	N	Y	N
Pearl Millet*	5	5	3	5	1	5	Ν	Y	N
Japanese Millet*	5	5	5	5	1	3	N	Y	N
Teff*	5	5	5	5	1	3	N	Y	N
Buckwheat*	3	3	3	5	1	5	N	Y	Y
Sunflower*	3	3	5	3	3	1	N	Y	Y
Legumes									
Cowpea	5	4	2	5	3	2	Y	Y	Y
Sunn Hemp	3	5	3	5	5	3	Y	Y	Y
Berseem Clover	4	4	4	4	0	5	Y	Y	Y
Red Clover	3	4	4	4	5	3	Y	Y	Y
Sweetclover	4	5	2	4	5	5	Y	Y	Y
Subterranean Clover	4	4	2	5	0	3	Y	Y	Y
Crimson Clover	4	4	3	4	0	3	Y	Y	Y
Field/Austrian Winter Pea	4	3	2	4	1	5	Y	Y	Y
Hairy Vetch	3	4	2	3	3	5	Y	Y	Y
Brassicas (Crucifereae)									
Forage Radish	4	4	5	5	5	3	N	N	N
Rapeseed/Canola	5	3	4	4	3	3	N	N	Y
Mustards	4	3	4	4	1	5	Ν	N	Y
Turnip	1	4	3	4	5	5	N	N	N

Plant Species	Life cycle ¹	Seeding Rate ² Ibs./ac	Hardy thru (PHZ) zone ¹	Shade Tolerance for Inter- seeding	Seeding Depth Inches	Optimum Season Seeding Reliability ³						Latest seeding dates (fall) For Winter Erosion Control		
						Spring	Early Summer	Summer	Early Fall	Fal	Late Fall	Zone 1	Zone 2	Zone 3
Cool-Season Growth		Sec. Sec.	n and a				Planet Street	103353131					1233	1.200
Winter Rye (Secale cereale)	WA	112	3	Y	3⁄4 - 2				~	√+	√	10/10	10/15	10/25
Winter Barley (Hordeum vulgare)	WA	120	6	Y	¾-2	√ +·						NA	9/25	10/1
Winter Wheat (Triticum aestivum)	WA	120	3	Y	1/2 - 1 1/2	√+			√+	√+		10/1	10/5	10/15
Winter Triticale (× Triticosecale)	WA	110	3	N	1/2 - 1 1/2				√	√+		10/5	10/10	10/20
Oats (Avena sativa)	SA	100	8	N	1/2 - 1 1/2	√+		[√+	 ✓ 		9/1	9/10	9/15
Annual Ryegrass (Lolium multiflorum)	WA	20	6	Y	1/8 - 1/2	√+	✓	✓-	√+			8/15	9/1	9/15
Warm-Season Growth		1.11.1.50	lour la		losses hearing	No. of State	ACTIVITY OF							1000
Sorghum-Sudangrass Hybrids (Sorghum bicolor x S. 2udanese)	SA	35	NFT	Y	1/2 - 1 1/2		√+	√+				NA	NA	NA
Pearl Millet (Pennisetum Glaucum)	SA	15	NFT	N	1/2 - 3/4		✓	 ✓ 		·		NA	NA	NA
Japanese Millet (Enchinochloa frumentacea)	SA	20	NFT	N	%-1		~	~				NA	NA	NA
Teff (Eragrostis tef)	SA	8	NFT	N	1/8 - 1/4		✓	 ✓ 				NA	NA	NA
Buckwheat (Fagopyrum esculentum)	SA	50	NFT	N	1/2 - 1 1/2		✓+	√+				NA	NA	NA
Sunflower (Helianthus annuus)	SA	5	NFT	N	1/8 - 1/4		√ +	√+				NA	NA	NA
Legumes							B 25. 1. 1. 1.			IL CIT				
Cowpea (Vigna unguiculata)	SA	40	NFT	N	1-1½		✓	√+				NA	NA	NA
Sunn Hemp (Crotalaria juncea)	SA	10	NFT	N	1/2 - 1 1/2		✓	√+				NA	NA	NA
Berseem Clover (Trifolium alexandrinum)	SA	15	NFT	N	Y4 - Y2	√+	√+	~	√-			NA	NA	NA
Red Clover (Trifolium pretense)	SLP	10	4	N	1/4 - 1/2	√+		✓	√-			NA	NA	NA
Yellow Sweet Clover (Melilotus officinalis)	В	10	4	N	1⁄4 - 1	\checkmark			1			NA	NA	NA
Subterranean Clover (Trifolium subterraneum)	SA	12	8	N	Y4 - Y2	~	1	~				NA	NA	NA
Crimson Clover (Trifolium incarnatum)	WA/SA	15	6	Y	1/4 - 1/2	√+	√ + .	 ✓ 	√+			NA	9/1	9/15
Austrian Winter Pea (Pisum sativum)	SA/WA	50	7	N	1½-2	√+	✓		√+			NA	8/25	8/30
Hairy Vetch (Vicia villosa)	WA	20	4	Y	1/2 - 1 1/2				√+	\checkmark		8/15	9/1	9/15
Brassicas (Crucifereae)		Con General I									100			
Forage Radish (Raphanus sativus)	SA	10	8	Y	1/4 - 1/2	√+	1		√+			9/1	9/7	9/15
Rapeseed/Canola (Brassica napus)	WA/SA	10	8	Y	1⁄4 - 3⁄4	√+	~		√+			9/1	9/7	9/15
Mustards (Brassica juncea)	SA	10	8	N	1/4 - 3/4	√+	✓		√+			9/1	9/7	9/15
Turnip (Brassica rapa)	SA	10	8	N	1⁄4 - 3⁄4	√+	✓		√+		U	9/1	9/7	9/15
1. A = annual; WA = winter annual; SA	= summer	annual; B = b	iennial; SLP	= short-lived p	erennial; NFT =	no frost tole	rance	·I				· · · · · · · · ·		
2. Drilled seeding rate; for broadcast														

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