

Exhibit 4-2 Percentage of air-dry matter in harvested plant material at various stages of growth

Grasses	Before heading; initial growth to boot stage (%)	Headed out; boot stage to flowering (%)	Seed ripe; leaf tips drying (%)	Leaves dry; stems partly dry (%)	Apparent dormancy (%)
Cool season	35	45	60	85	95
wheatgrasses					
perennial bromes					
bluegrasses					
prairie junegrass					
Warm season					
Tall grasses	30	45	60	85	95
bluestems					
indiangrass					
switchgrass					
Midgrasses	40	55	65	90	95
side-oats grama					
tobosa					
galleta					
Short grasses	45	60	80	90	95
blue grama					
buffalograss					
short three-awns					
Trees	New leaf and twig growth until leaves are full size (%)	Older and full-size green leaves (%)	Green fruit (%)	Dry fruit (%)	
Evergreen coniferous	45	55	35	85	
ponderosa pine, slash					
pine-longleaf pine					
Utah juniper					
rocky mountain juniper					
spruce					
Live oak	40	55	40	80	
Deciduous	40	50	35	85	
blackjack oak					
post oak					
hickory					

Exhibit 4-2 Percentage of air-dry matter in harvested plant material at various stages of growth—Continued

Shrubs	New leaf and twig growth until leaves are full size (%)	Older and full-size green leaves (%)	Green fruit (%)	Dry fruit (%)	
Evergreen big sagebrush bitterbrush ephedra algerita gallberry	55	65	35	85	
Deciduous snowberry rabbitbrush snakeweed Gambel oak mesquite	35	50	30	85	
Yucca and yucca-like plants yucca sotol saw-palmetto	55	65	35	85	
Forbs	Initial growth to flowering (%)	Flowering to seed maturity (%)	Seed ripe; leaf tips dry (%)	Leaves dry; stems drying (%)	Dry (%)
Succulent violet waterleaf buttercup bluebells onion, lilies	15	35	60	90	100
Leafy lupine lespedeza compassplant balsamroot tickclover	20	40	60	90	100
Fibrous leaves or mat phlox mat eriogonum pussytoes	30	50	75	90	100
Succulents	New growth pads and fruits (%)	Older pads (%)	Old growth in dry years (%)		
Pricklypear and barrel cactus	10	10	15+		
Cholla cactus	20	25	30+		