

# AGRICULTURAL ENTERPRISE DIVERSIFICATION RULES (OUR CISCOLUR) (GUID) [8]

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### To Whom It May Concern:

The Sustaining Western Rural Landscapes, Lifestyles and Livelihoods partnership completed the comprehensive agricultural diversification resource guide as a valuable tool in assisting professionals in delivering technical assistance to agricultural producers as they evaluate their current operations and research the feasibility of diversifying.

The information, at first glance, may look overwhelming, but is divided into the following sections:

- Foreword
- Introduction to Agricultural Enterprise Diversification
- Enterprise Assessment
- Enterprise Feasibility
- Enterprise Implementation (Business Planning, Legal, Finance, Marketing, Human Resources, Natural Resources and Community)

If you would like further information on how to best use this guide please don't hesitate to contact me at the following address. In addition we have access to professionals who can assist agricultural producers develop an agricultural diversification strategy, so please don't hesitate to contact me.

Sincerely,

Cindy Garretson-Weibel

Cindy Garretson-Weibel, Agribusiness Director Wyoming Business Council 214 W. 15<sup>th</sup> St. Cheyenne, WY 82002 (307) 777-6589 cindy.weibel@wyo.gov



### A. General information

The relationship between natural resource stewardship and the success of traditional agricultural businesses has been acknowledged and taken into account by many generations of farmers and ranchers. Recall that enterprise diversification involves the use of resources, including natural, in more than one enterprise. Given this framework, it is difficult today to imagine an alternative agricultural enterprise that is not somehow tied to the land.

Whether the alternative enterprise is based on specialty crops, non-traditional livestock, hunting, or recreation, its potential success will depend on the people on that land exercising care in the management and use of the resources of that land. Review the Resource Inventory (Section III) for natural resources that could either be incorporated into existing enterprises or become the basis for a new enterprise. "Poor" resource conditions may point to obstacles that need to be overcome for an enterprise to be successful. On the other hand, "good" resource conditions may indicate opportunities for profitable new enterprises.

For example, if the chosen enterprise is service-based and involves people in direct contact with the land, the expectations are for shining examples of natural resource stewardship rather than obvious signs of neglect or abuse. Landscape aesthetics, something often not considered in traditional agricultural production, are also valued by potential recreationists on the land unit. This translates into a quality experience, and the potential for a repeat customer. So, sites that may detract from positive visitor experiences, like erosion or old dumping sites, should be addressed.

If the selected enterprise is product production-based, and relied on natural resources, then it is really no different than producing a traditional commodity. Excessive soil erosion reduces production potential of alternative crops, and poor grazing practices can reduce the potential for alternative livestock production or for maintaining key habitat for a wildlife population that is marketable.





It then makes sense, at least in part, that the economical sustainability of a diversified agricultural enterprise is dependent upon the ecological sustainability of the same land unit. It can be thought of as a symbiotic relationship because the care and wise use of the natural resources will help perpetuate the success of the business. Conversely, the careful management of the business can earn the reinvestment capital necessary for enhancing and maintaining the natural resources.

Many diversified ranch operations require a different approach to natural resource management. Management of the general operation may need to be adjusted around desired products and activities. For example, a pasture may need to be left ungrazed during peak wildflower bloom, a riparian corridor could be managed for birding, and an excellent hunting spot may need protection from other uses in the fall.

There are a multitude of factors that may need to be considered in an agribusiness enterprise. Some of the common ones are:

# B. Access

Access will be an important consideration for many diversified enterprises. Some producers are very tolerant of visitors, while others do not want to contend with strangers. If the choice is to engage in a recreational enterprise, whether by fee hunting, bird watching or trail riding, people who are not familiar with the property will not be using it. Let them know what is expected of them, in terms of closing gates, staying on designated trails, and not littering. Explain how neglect of these things affects the other natural resources. By informing visitors of the kind and extent of limitations such as these, they will likely be more conscientious of the ranch and its operation.

Access can be managed in a number of ways. The landowner can limit the number of visitors, when they visit, which areas they can use, how they can use those areas, and the duration of the visit.





## C. <u>Aesthetics</u>

Producers may need to take a step back and assess the ranch from an aesthetic point of view, identifying the best views on the ranch, noting where noxious weeds are, or locating quiet spots in the shade for reflection. Many guests may not be accustomed to what a "real, working ranch" looks like. They will have their own set of ideas and expectations, often based on what they have seen in the movies, and what they have been taught in school and have seen in the media about the environment.

Preparation for guests includes: healing erosion sites, laying out trails to take advantage of the most spectacular views, and concealing improvements, like stock water developments, on the far side of a hill or in the timber.

## D. <u>Noxious weeds</u>

This is a growing concern across much of the West. Vehicles driven offroad are an excellent vector for spreading noxious weed seed from one location to another. What can be done? The producer can require guests to wash their vehicle in town prior to arriving at the ranch, or they might provide a car washing facility on site at the ranch. The producer could also arrange to pick up the guests at a pre-determined location to avoid the potential spread of weeds.

What about guests that want to bring their own horses? Have they been feeding weed-free hay, or have they been grazing weed-free pastures? The producer could suggest that the guests feed weed-free hay to their horses for at least a week prior to visiting. Better yet, the producer could provide all of the horses for the guests during their stay, and change higher rates.

A good education program is essential for noxious weed management. The producer can develop a packet on noxious weed information and send it to all guests prior to their visit.





# E. All terrain vehicle /off-road vehicle use

The producer will have to decide if they will allow ATV and/or ORV use on the land unit. Many rangelands are fragile, and thus, susceptible to erosion from ATV/ORV use. The producer can manage these impacts by limiting the use to designated trails and roads, and at times of the year when soils are less erodible. Require visitors to use designated stream crossings where there are bridges or the stream channel has been armored.

ATV/ORV traffic can also affect animal distributions, both domestic and wild. Use of these vehicles should be managed to avoid displacement, or prevention of use, of animals in desired locations during times of the year when animal presence is a priority.

## F. Waste products

Many visitors have a heightened awareness of environmental stewardship, and consequently, have related expectations. Old dumping sites should be rehabilitated. Some producers have also installed septic tanks and outhouses at designated camping sites to better manage waste. This has proven to be a favorable practice with their paying guests.

Another potential consideration may be with fuel dispensing sites on the farm or ranch. There may be patches of soil with fuel or waste oil spills that could be removed and properly disposed. Many farms and ranches are now installing fuel-dispensing facilities that are completely contained within a concrete apron and pad.

# G. Livestock grazing

Livestock grazing is a long-standing tradition on many western ranches. It is also one of the most contentious issues related to ranching because some people have differing viewpoints as to the impacts of grazing on other resources. Producers should, at the very least, be aware of this perception. While many guests may not know what "healthy" rangeland looks like, they





do have a perception of what "unhealthy" rangeland looks like. Management strategies should be implemented to move plant communities to more desirable compositions, to reduce and/or heal erosion, and to improve any other undesirable conditions. Proper grazing management helps maintain healthy rangeland and can serve as a tool for educating visitors as to the positive relationship that often occurs between grazing animals and plant communities.

Many producers are not familiar with alternative, non-traditional species of livestock, such as yaks, bison, elk, and camels. There are several factors that are important to consider in the context of natural resources stewardship. Some of these include forage preferences, distribution patterns, grazing and social behaviors, and water needs, all of which may be unique to these other types of livestock.

For recreational enterprises, some producers build corrals at designated camping or picnic sites to limit the impacts of grazing horses to a small, designated area. Hay is stock-piled and fed at these locations. This keeps the *visual* impact and *real* impact of the grazing to a minimal area.

Others may choose to limit the access of visitors only to those areas that exhibit the highest degree of resource stewardship, while other areas are being improved as financial and other resources permit.

# H. Wildlife/fisheries

Fisheries and wildlife are the basis for many diversified ranch enterprises across the West. Some producers opt to lease these resources to outfitters or sportsmen's clubs. Others choose to operate a fisheries or wildlife-based enterprise themselves. These can range from simple access fees to full-fledged guided operations with all amenities provided.

Much can be done to develop, enhance, and mange habitats for target species. Producers can also manage for trophy development or to reduce wildlife depredation impacts to other priority resources. Some producers





find it beneficial to link with adjoining landowners to achieve desired trophy and/or population objectives for target species.

## I. Conservation practices

The natural resource professional can assist the producer in developing strategies for addressing natural resource concerns and optimizing opportunities. Conservation practices are excellent tools that are available for accomplishing these types of objectives.

A conservation practice is a specific treatment, such as a structural or vegetative measure, or management technique, commonly used to meet specific needs in planning and implementing conservation, for which standards and specifications have been developed. A diverse array of conservation practices are contained with the USDA-NRCS Field Office Technical Guide, which is found in each NRCS Field Office.

For example, if the producer is interested in a recreational enterprise, then he or she may be interested in a Recreation Trail and Walkway (code 568) or a Windbreak (code 380) adjacent to a campsite or lodging facility. Or, if the producer was interested in a fee hunting or fishing operation, then perhaps Streambank and Shoreline Protection (code 580) and Wetland Wildlife Habitat Management (code 644) would be desired.

Following the list of resources are the lists of NRCS Conservation Practices and 2003 practice component costs to use in evaluating enterprise feasibility and for planning conservation improvements to farm and ranch operations.

### J. Resources

Boyd Byelich USDA-NRCS 8416 Hildreth Rd. Cheyenne, WY 82009 307-772-2015





Matt Hoobler Wyoming Department of Agriculture 2219 Carey Ave. Cheyenne, WY 82002 307-777-7024

### USDA-NRCS Field Office Technical Guide

- can be accessed at all USDA Service Centers and NRCS Field Offices

USDA-NRCS National Range and Pasture Handbook. 1997.

- can be accessed at all USDA Service Centers and NRCS Field Offices

USDA-CSREES Cooperative Extension Service publications

- a list of natural resource publications for Wyoming, Colorado, Utah, Idaho, and Montana can be found in the Resources Section (VI) of this guide.





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Steel Jan-89 430-FF Reinforced Plastic Mortar Jan-89 430-GG Rigid Gated Jan-89 430-HH Corrugated Metal (Interim) Jan-83 430-II-1 Corrugated Metal, Ribbed or Profile Wall, Thermoplastic (Interim) Irrigation Water Management (Ac.) Engineering Jan-89 449 Land Clearing (Ac.) Engineering Jan-89 460 Land Reclamation Engineering Fire Control (No.) Oct-88 451 Shaft & Adit Closing (No.) Oct-88 452 Landslide Treatment (No. & Ac.) Oct-88 453 Subsidence Treatment (Ac.) Oct-88 454 Toxic Discharge Control (No.)	Low-Pressure, Underground, Plastic		Jan-89	430-EE
Reinforced Plastic Mortar  Rigid Gated Corrugated Metal (Interim) Corrugated Metal, Ribbed or Profile Wall, Thermoplastic (Interim)  Irrigation Water Management (Ac.) Land Clearing (Ac.) Engineering Fire Control (No.) Shaft & Adit Closing (No.) Landslide Treatment (No. & Ac.) Subsidence Treatment (Ac.)  Rigid Gated Jan-89 430-HH Jan-83 430-II-1 Jan-93 430-JJ-1 Engineering Jan-89 449 Langlineering Engineering Engineering Cot-88 451 Cot-88 452 Landslide Treatment (No. & Ac.) Subsidence Treatment (Ac.) Toxic Discharge Control (No.)	Steel		Jan-89	
Rigid Gated Corrugated Metal (Interim) Corrugated Metal, Ribbed or Profile Wall, Thermoplastic (Interim) Irrigation Water Management (Ac.) Land Clearing (Ac.) Engineering Engineering Fire Control (No.) Shaft & Adit Closing (No.) Landslide Treatment (No. & Ac.) Subsidence Treatment (Ac.)  Rigid Gated Jan-89 430-II-1 Jan-93 430-JJ-1 Engineering Jan-89 449 Lan-89 460 Engineering Engineering Cot-88 451 Cot-88 452 Cot-88 453 Subsidence Treatment (Ac.) Cot-88 454 Toxic Discharge Control (No.)	Reinforced Plastic Mortar			
Corrugated Metal (Interim) Corrugated Metal, Ribbed or Profile Wall, Thermoplastic (Interim) Irrigation Water Management (Ac.) Land Clearing (Ac.) Land Reclamation Fire Control (No.) Shaft & Adit Closing (No.) Landslide Treatment (No. & Ac.) Subsidence Treatment (Ac.) Toxic Discharge Control (No.)  Land Reclamation Subsidence Treatment (No.) Cot-88 Landslide Treatment (Ac.) Toxic Discharge Control (No.)  Landslide Treatment (No.) Cot-88 Landslide Treatment (Ac.) Cot-88 Landslide Treatment (No.)	Rigid Gated		Jan-89	
Corrugated Metal, Ribbed or Profile Wall, Thermoplastic (Interim)  Irrigation Water Management (Ac.)  Land Clearing (Ac.)  Land Reclamation  Fire Control (No.)  Shaft & Adit Closing (No.)  Landslide Treatment (No. & Ac.)  Subsidence Treatment (Ac.)  Toxic Discharge Control (No.)  A30-JJ-1  Engineering  Jan-89  Jan-89  460  Engineering  Engineering  Cot-88  451  Oct-88  452  Cot-88  453  Subsidence Treatment (Ac.)  Cot-88  A54  Toxic Discharge Control (No.)	Corrugated Metal (Interim)			
Thermoplastic (Interim) Irrigation Water Management (Ac.) Land Clearing (Ac.) Engineering Engineering Fire Control (No.) Shaft & Adit Closing (No.) Landslide Treatment (No. & Ac.) Subsidence Treatment (Ac.) Toxic Discharge Control (No.)  Irrigation Water Management (Ac.) Engineering Engineering Engineering Cot-88 451 Cot-88 452 Cot-88 453 Cot-88 454 Toxic Discharge Control (No.)	Corrugated Metal, Ribbed or Profile Wall,			
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Land Reclamation Engineering Fire Control (No.) Oct-88 451 Shaft & Adit Closing (No.) Oct-88 452 Landslide Treatment (No. & Ac.) Oct-88 453 Subsidence Treatment (Ac.) Oct-88 454 Toxic Discharge Control (No.) Oct-88 455	Land Clearing (Ac.)		Jan-89	
Fire Control (No.)       Oct-88       451         Shaft & Adit Closing (No.)       Oct-88       452         Landslide Treatment (No. & Ac.)       Oct-88       453         Subsidence Treatment (Ac.)       Oct-88       454         Toxic Discharge Control (No.)       Oct-88       455	Land Reclamation			
Shaft & Adit Closing (No.) Oct-88 452 Landslide Treatment (No. & Ac.) Oct-88 453 Subsidence Treatment (Ac.) Oct-88 454 Toxic Discharge Control (No.) Oct-88 455	Fire Control (No.)		Oct-88	451
Landslide Treatment (No. & Ac.)Oct-88453Subsidence Treatment (Ac.)Oct-88454Toxic Discharge Control (No.)Oct-88455	Shaft & Adit Closing (No.)			
Subsidence Treatment (Ac.) Oct-88 454 Toxic Discharge Control (No.) Oct-88 455	Landslide Treatment (No. & Ac.)			
Toxic Discharge Control (No.) Oct-88 455	Subsidence Treatment (Ac.)			
and the same of th	Toxic Discharge Control (No.)			
	Highwall Treatment (No. & Ft.)			
Land Reconstruction, Abandoned Mined Land (Ac.) Engineering Jun-96 543		Engineering		
Land Reconstruction, Currently Mined land (Ac.) Engineering Jun-84 544				
Land Smoothing (Ac.) Engineering Jan-89 466				
Lined Waterway or Outlet (Ft.)  Engineering Jan-89 468				
Manure Transfer (No.) Engineering Jul-97 634				
Mechanical Forage Harvesting (Ac.)  Agronomy  Jun-96  WY-XX				
Mole Drain (Ft.)  Engineering Jan-89  482				
Mulching (Ac.)  Agronomy  Jun-96  484				
Agronomy Juli-30 404	The state of the s	, gronony	our-su	704





Practice (Unit)	Discipline	Date	Code
Nutrient Management (Ac.)	Agronomy	Jun-96	590
Obstruction Removal (Ac.)	Engineering	Jan-89	500
Open Channel (Ft.)	Engineering	Jan-89	582
Pasture & Hay Planting (Ac.)	Agronomy	Jun-96	512
Pest Management (Ac.)	Agronomy	Jun-96	595
Pipeline (Ft.)	Engineering	Jan-89	516
Pond (No.)	Engineering	Jan-89	378
Pond Sealing or Lining (No.)	Engineering		
Flexible Membrane		Jan-89	521 -A
Soil Dispersant		Jan-89	521 -B
Bentonite Sealant		Jan-89	521 -C
Catonionic Emulsion-Waterborne Searlant		Jan-89	521-D
Asphalt-Sealed Fabric Liner		Jan-89	521-E
Precision Land Forming (Ac.)	Engineering	Jan-89	462
Prescribed Burning (Ac.)	Forestry	Jun-96	338
Prescribed Grazing (Ac.)	Range	Jun-96	528A
Pumped Well Drain (No.)	Engineering	Oct-88	532
Pumping Plant for Water Control (No.)	Engineering	Jan-89	533
Range Planting (Ac.)	Range	Jun-96	550
Recreation Area Improvement (Ac.)	Forestry	Jan-89	562
Recreation Land Grading and Shaping (Ac.)	Engineering	Jan-89	566
Recreation Trail & Walkway (Ft.)	Engineering	Jan-89	568
Regulating Water in Drainage Systems (Ac.)	Engineering	Jan-89	554
Residue Management Seasonal (Ac.)	Agronomy	Jun-96	344
Residue Management, Mulch-till (Ac.)	Agronomy	Jun-96	329B
Residue Management, No-till & Strip till (Ac.)	Agronomy	Jun-96	329A
Residue Management, Ridge-till (Ac.)	Agronomy	Jun-96	329C
Restoration & Mgmnt of Declining Habitats (Ac.)	Biology	Aug-98	643
Riparian Forest Buffer (Ac.)	<b>Bio/Forestry</b>	May-96	391
Rock Barrier (Ft.)	Engineering	Jan-89	555
Roof Runoff Management (No.)	Engineering	Jan-89	558
Row Arrangement (Ac.)	Engineering	Jan-89	557
Runoff Management System (No. & Ac.)	Engineering	Jan-89	570
Sediment Basin (No.)	Engineering	Feb-95	350
Shallow Water Management for Wildlife (Ac.)	Biology	Aug-98	646
Snow Harvesting (Ft.)	Engineering	Jul-92	100
Soil Salinity Management, Non-Irrigated (Ac.)	Engineering	Oct-88	571
Spoil Spreading (Ft.)	Engineering	Jan-89	572
Spring Development (No.)	Engineering	Jan-89	574
Stream Channel Stabilization (Ft.)	Engineering	Jan-89	584
Streambank & Shoreline Protection (Ft.)	Engineering	Jan-89	580
Stripcropping, Contour (Ac.)	Agronomy	Jun-96	585
Stripcropping, Field (Ac.)	Agronomy	Jun-96	586
Structure for Water Control (No.)	Engineering	Jan-89	587
Subsurface Drain (Ft.)	Engineering	Jul-92	606
Surface Drainage Field Ditch (Ft.)	Engineering	Jan-89	607
Surface Drainage Main or Lateral(Ft.)	Engineering	Jan-89	608
Surface Irrig Erosion Cntrl (PAM)(Interim) (Ac.)	Engineering	2/97	716

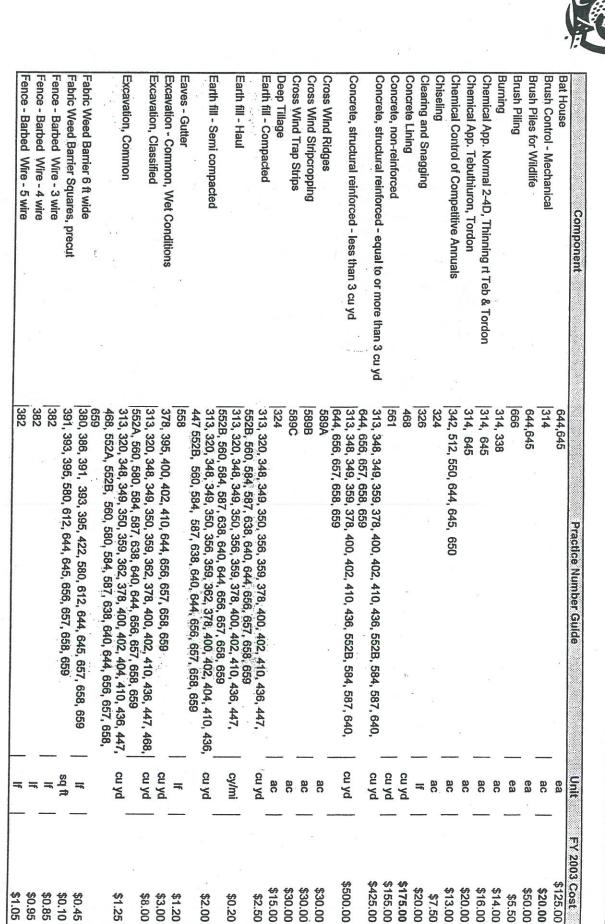




Practice (Unit)	Discipline	Date	Code
Surface Roughening (Ac.)	Agronomy	Jun-96	609
Terrace (Ft.)	Engineering	Jan-89	600
Toxic Salt Reduction (Ac.)	Agronomy	Oct-91	610
Tree/Shrub Establishment (Ac.)	Forestry	Jun-94	612
Tree/Shrub Pruning (Ac.)	Forestry	Jul-97	660A
Trough or Tank (No.)	Engineering	Mar-96	614
Underground Outlet (Ft.)	Engineering	Jan-89	620
Upland Wildlife Habitat Management (Ac.)	Biology	Aug-98	645
Use Exclusion (Ac.)	Forestry	June-94	472
Vertical Drain (No.)	Engr/Agron	Oct-88	630
Waste Storage Facility (No.)	Engineering	Feb-95	425
Waste Management System (No.)	Engineering	Jun-96	312
Waste Treatment Lagoon (No.)	Engineering	Feb-95	359
Waste Utilization (No. & Ac.)	Engineering	Jun-96	633
Water Harvesting Catchment (No.)	Engineering	Jan-89	636
Water Sediment Control Basin (No.)	Engineering	Jan-89	638
Water Table Control (Ac.)	Engineering	Oct-88	641
Waterspreading (Ac.)	Engineering	Jan-89	640
Well (No.)	Engineering	Nov-98	642
Wetland Wildlife Habitat Management (Ac.)	Biology	Aug-98	644
Well Decommissioning (No.)	Engineering	Jan-89	351
Wetland Restoration (Ac.)	Eng/Bio	Aug-98	657
Wetland Creation (Ac.)	Eng/Bio	Aug-98	658
Wetland Enhancement (Ac.)	Eng/Bio	Aug-98	659
Wildlife Watering Facility (No.)	Biology	Aug-98	648
Windbreak/Shelterbelt Establishment (Ft.)	Forestry	Jun-94	380
Windbreak/Shelterbelt Renovation (Ft.)	Forestry	Jun-94	650











	430DD	O COLOR
		. Libe . Li biessole dildeldionid 9005. 15.
	43000	T Dine - Li processio dindergionna opportati
	13000	Irr. Pipe - Hi pressure underground 80ns; 10"
-		Irr. Pipe - Hi pressure underground 80nsi 10"
	422A	Herbaceous Wind Barriers
	548	Grazing Land Mechanical Treatment
cu yd \$20.00	584 587 644 656 657 658 650	
34 90	349 340 350 378 305 400 403 404 440	Gravel
	349. 378	Geotextile for wave protection
_	404, 580, 584, 587	Geotextile filter
_	410, 580, 584	Gabions, installed (includes rockfill)
	666	Forest Stand Improvement
ea \$5,000.00	395, 396	rish Barrier Removal ***(actual not to exceed)
ac \$30.00	394	Fire Break
If \$1.85	382	rence - Woven Wire Combination
If \$1.75	382	rence - Woven Wire
If \$9.20	382	relice - Illibel post w/o poards
lf \$7.60	382	Force Timber post w/o boards
\$11.60	00000	ence Timber poet w/6"boards
\$0.55	300	Fence - Timber nost w/10" hoards
90.00	382	Fence - Suspension - 5 wire
15 \$0.50	382	Fence - Suspension - 4 wire
If \$0.45	382	Fence - Suspension - 3 wire
If \$12.70	382	Fence - Steel pipe w/sucker rod, 5 rods
If \$11.00	382	Fence - Steel pipe w/sucker rod, 4 rods
If \$10.20	382	Fence - Steel pipe w/sucker rod, 3 rods + rail
If \$4.80	382	Fence - Steel pipe w/cable, 5 cables
If \$4.60	382	Fence - Steel pipe w/cable, 4 cables
If \$8.00	382	Fence - Steel Panel, w/steel or timber posts
s1.10	382	Fence - 4-wire w/dir change = 1/4 mile</td
If \$3.00	382	Fence - Rail top w/2 or 3 barbed wire below
If \$0.50	382	Fence - Permanent Power 3 wire
If \$0.40	382	Fence - Permanent Power 2 wire
If \$0.50	382	Fence - Perm Power 2 wire Poly rope
If \$13.20	382	Fence - Steel Panel Gate with latch
If \$3.50	382	Fence - Deer Resistant 6' minimum height
If \$3.50	382	Fence - Buck and Pole
If \$1.15	382	Fence - Barbed Wire - 6 wire





Tractice Mulliper Online  17 dia. 4300D  430DD  441  430EE  430AA  441  441  441  441  442  442  442  4	\$1.000.00	site	d)658, 629 = WRP_Easement/Only	Feat Shire will be well fill the shirt of the second of th
Ny dia. 430DD   Fractice Number Office   10   10   10   10   10   10   10   1	\$25.00	ac s	900 960 760	Can rain opina), Conscinato India
My dia. 430DD   Fractice Number Outline   17 2003   16   16   16   16   16   16   16   1	\$30.00	ac		Logal Land Curvey Consolvation Leasting III, 4210 at
My dia. 430DD   Fractice Number Outline   Fractice Number Outline   Fractice Number Outline   Fractice Number Outline   Fractice   F	\$100.00		NAME OF THE PERSON OF THE PERS	
My dia. 430DD   Intervillable villable	\$225.00	ac	342, 393	Land Smoothing
my dia. 430DD   Intervitible villipe villipe   Intervitible villipe villipe   Intervitible villipe villipe   Intervitible villipe   Inter	\$300.00	ac	462	Land Shaping and Filling
My dia.   430DD	\$3.00	ac	449	IVVM - Record Reeping Required
My dia.   430DD	\$2,700.00	ea	430HH	ingation, surge valve, 12"
My dia.   430DD	\$2,100.00	ea	430HH	Irigation, Surge Valve, 10"
My dia.	\$1,850.00	ea	430HH	Irrigation, Surge Valve, 08"
My dia.	\$950.00	ea	442,533,430	Irrigation, Screening Device 8"
my dia.   430DD	\$850.00	ea	442,533,430	Irrigation, Screening Device 6"
My dia.   430DD	\$1,150.00	ea —	442,533,430	Irrigation, Screening Device 10"
My dia.   430DD	\$750.00	ea	441, 442, 443	irrigation, Cnemigation Valve, 8"
Manual   M	\$660.00	• • • • • • • • • • • • • • • • • • •	441, 442, 443	Irrigation, Chemigation Valve, 6"
Manual	\$3.50	=	430HH	ingation, Gated Pipe, 12"
Manual   M	\$3.00	=======================================	430HH	
Manual	\$2.70	=	430HH	
Manual   M	\$2.50	per/tree	14	
my dia.	\$30.00		442	Irrigation System - Trickle
Machice Number Guide	\$550.00	ac	442	III ganon oystem - opinikier (New) ot - 140 ac
my dia.	\$450.00	ac	442	Irrigation System - Sprinkler (New) > 140 ac
my dia.	\$700.00	ac	442	Irrigation System - Sprinkler (New) <80 ac
my dia.   430DD   If	\$80.00	ac	442	Irrigation System - Hillow conversion
Mile Wulling Suites Number Suites Wulling Street St	\$500.00	ac	464	Irrigation Land Leveling
Mile Wulling Multiple Guide   Fr Zuu3 C	\$1.50		388	Irrigation Field Ditch
Mile Wullide Wullide Stude	\$175.00	cu yd	428A	Irrigation Ditch&Canal Lining nonrein concrete
Machice Number Suites   Unit   FY 2003 Cd   16   16   16   16   16   16   16   1	\$1.50	sqft	428B	Irrigation Ditch&Canal Lining Flex. Membrane
my dia.   430DD   If	\$300.00	ac	441	Irrig Subsurface Sys - Installation & Drip line
Triactice Nutriber Suitable    A30DD	\$9,000.00	ea	441	Irrig Subsurface Sys - Filter system, less than 30 ac
Triactice Number Suitas Unit PT 2003 Cd  1	\$20,000.00	. ea	441	Irrig Subsurface Sys - Filter system, more than 120 ac
Triactice Nutriber Suige  If  #30DD  If    430DD    1b    1b    1b    16di''	\$15,000.00	ea	441	Irrig Subsurface Sys - Filter system, 31 to 120 ac
Triactice Nutriber Suige    430DD	\$0.45	lf/di"	430AA	Irr. Pipeline - Aluminum Tubing
ny dia. 430DD Fridence Number Guide Unit FY 2003 C	\$1.25	- -	430EE	Irr. Pipe -Low pressure underground plastic
430DD Fridetice Number Guide Unit FY 2003 C	\$1.25		430DD	Irr. Pipe - Hi pressure underground plastic any dia.
Fractice Number Guide Unit	\$4.80	==	430DD	Irr. Pipe - Hi pressure underground 80psi 8"
	FY 2003 Cost	Unit	Practice Number Guide	Component





Component	Practice Number Guide	Unit	FY 2003 Cost
Mulching	342, 393, 484	ac	\$350.00
Nutrient Management	590	ac	\$0.50
Obstruction Removal	500	ac	\$500.00
PAM - Max 2 app's per yr	450	ac/app	\$3.00
Pipe - Corrugated Metal 36"-60"	348, 349, 350, 378, 400, 402, 410, 436, 447, 552B, 558, 584, 587,	If/di"	\$50.00
	656, 657, 658, 659		
Pipe - Corrugated Metal 6"-30"	350, 378	lf/di"	\$32.00
Pipe - HDPE <24	136 117	#/diii	9
	638, 640, 644, 656, 657, 658,	ğ	6
Pipe - HDPE > or = 24	350, 378, 400, 402, 410, 436	ft/di"	\$1.40
!	644, 656, 657, 658, 659		
Pipe - Plastic		5	\$1.25
Pipe - Steel	348 340 350 378 400 400 410 43055 437 5535 550 504	F 	9
		ē	200.24
Pipe - Steel < 4"		<b>∓</b>	\$2.50
Pipe <1 1/2" Plastic (above frost)	516	= <u>s</u>	\$1.30
Pipe <1 1/2" Plastic (below frost)	516	<b>∓</b>	\$4 70
Pipe > or = 1 1/2" Plastic (above frost)	516	=======================================	\$1 25
Pipe > or = 1 1/2" Plastic (below frost)	516	<del>-</del> -	\$1.00 \$1.00
Pipeline	657	lf/di"	#1 27
Pipeline - Livestock - Rock Excavation	516, 656, 657, 658, 659	<b>=</b> :	\$4.00
Pipeline - Nonreinforced Concrete	313, 430CC	lf/di"	\$1.00
Pond Sealing - Bentonite Sealant	359, 378, 436, 521C, 552A, 644, 656, 657, 658, 659	sa ft	\$0.50
Pond Sealing - Earth	359, 378, 436, 552A, 644, 656, 657, 658, 659	Cu vd	\$2.50
Pond Sealing - Flexible Membrane	359, 378, 436, 521A, 552A, 644, 656, 657, 658, 659	sq ft	\$1.50
Pond, C-Loc Sheet Piling		sq ft	\$8.80
Prescribed Grazing (Monitoring)	528A	ea	\$3,000.00
Raptor Perch - Nesting Platform	645	P	00 000\$
Residue Mgmt-Mulch-till	329B	- ב מ	00.00.00 00.00.00
Residue Mgmt-No-till & Strip-till	329A	, c	#15 00 00.00
Residue Mgmt-Ridge till	329C	3 8	\$ 2.00
Revetment, Tree	395, 580	∓ ac	\$33.00
Rock	348, 349, 378, 395, 400, 402, 404, 410, 436, 468, 552B, 580, 584	CH Vd	\$30.00
Cork (Sagradio)	644, 645, 656, 657, 658, 659		
Noch (~30 dia.)	348, 395, 400, 410, 644, 645, 656, 657, 658, 659	CU Vd	A 100





1	*** CONTRACTOR CONTRAC		
\$2.50	bd ft	3, 348, 349, 359, 395, 400, 402, 410, 436, 552B, 584, 587, 640,	Imper - treated 313,
\$0.35	Ŧ	0	
\$9.00	ou fi		ain di Tough, subben lie sabbugar
\$500.00	ea		The second secon
\$4.00	£ 100 €	. 4	lion)
\$7.25	cu ft	4.	
\$5.00	Б	4	
	ea		
\$2.00	gal gal	0.048	Catchmost Associated States
\$2,500.00	ea		
\$1.50	cu yd		2
\$1.50	cu yd		
\$4.00	=	7 0	Field Ditch
<b>*</b>	- C		
		5. 03. 038	Straw baled w/unpicked grain 645
\$2.70	6	8, 349, 350, 378, 400, 402, 410, 436, 552B, 584, 587, 640, 644,	Cieci, sudcidial
\$2,000.00	no		
	CO		
			ed list cost
2000	<del>-</del> -	0	Soil Bioengineering Components 580
\$4.00	=		Snow Harvesting Fence 727
\$2 00	- -	0, 392	Snow Fence 380,
\$1,500.00	ea	644, 656, 657, 658, 659	outs - Blasted Pits
\$15.00	ac	6, 391, 392, 645	Seedbed Prep - Moldboard 386,
\$9.00	ac	612, 644, 645	
\$13.00	ac	327, 380, 386, 391, 392, 393, 395, 612, 644, 645	
\$30.00	ac	2, 393	Seedbed Prep 342
\$70.00	ac	7, 342, 393	- Tame Species 2x normal rate
\$100.00	ac	7, 342, 393	
\$50.00	ac	7, 550	Seed & Drilling - Native 327,
\$40.00	ac	6, 391, 393, 512, 644	Seed & Drilling - Irrigated Pasture and Hayland 386,
\$35.00	ac	327, 386, 391, 393, 512, 644, 645	
\$200.00	ac	327, 342, 393	te
\$200.00	ac	7, 342, 393	Seed & Broadcast- Native Species 4x normal rate 327,
\$0.70	sq n	447 5528 560, 584 587, 638, 640, 644, 656, 657, 658, 659	
\$500.00	ea	580	COOL AND CONTRACT CON
FY 2003 Cost	Unit	Fractice Number Guide	component