

***** SEPTEMBER 19, 1986 VERSION *****

THESE WORK ITEMS WERE DEVELOPED TO HELP NEW ECONOMISTS IDENTIFY THINGS THAT NEED TO BE ACCOMPLISHED, AND REMIND EXPERIENCED ECONOMISTS OF STEPS NEEDED, TO EVALUATE A PROJECT

Type of project: WATERSHED PROTECTION

200AG PRELIMINARY STAFF INFORMATION ABOUT A POTENTIAL PROJECT HAS BEEN RECEIVED.
PROJECT EVALUATION

PROJECT POTENTIAL IS DETERMINED BY THE STAFF ACCESSING THE FOLLOWING:

- A. IDENTIFY THE RESOURCE PROBLEMS
 - 1. QUANTIFY PROBLEMS
 - 2. DETERMINE IF PROBLEM FITS PURPOSE LISTED UNDER PL-566 (URBAN FLOOD, AG. FLOOD, WATERSHED PROTECTION, IRRIGATION, ETC.)
 - 3. DETERMINE IF PROJECT CAN BEST BE SOLVED UNDER THE PL-566 PROGRAM
 - 4. DETERMINE POTENTIAL FOR PROJECT ECONOMIC FEASIBILITY
- B. IDENTIFY OBJECTIVES OF LOCAL PEOPLE AND DETERMINE POTENTIAL SPONSORS
 - 1. COMPARE SPONSOR OBJECTIVES TO PROGRAM REQUIREMENTS
 - 2. DETERMINE RANGE OF ALTERNATIVES THAT ARE SOCIALLY ACCEPTABLE
- C. ASSIST IN PREPARING A PRELIMINARY REPORT AND IF PROJECT PLANNING CONTINUES, USE THE FOLLOWING WORK ITEMS TO GUIDE THE ECONOMIC ANALYSIS

201AG DEVELOP A STUDY PLAN, ECONOMICS PORTION.

- A. LIST IN TIME SEQUENCE ALL ECONOMIC WORK ITEMS NEEDED TO SOLVE THE PROBLEMS IDENTIFIED IN THE PROJECT. USE THE WORK ITEMS DESCRIBED BELOW. ADD AND DELETE WORK ITEMS TO MAKE THE PLAN OF WORK SPECIFIC TO THE PROJECT BEING PLANNED.

COORDINATE WITH APPROPRIATE
STAFF AND TSC
ECONOMISTS AS NEEDED.
(BEGINNING OF POST
APPLICATION PLANNING 502.31(A)
NWSM)

B. DESCRIBE PROCEDURES FOR
ACCOMPLISHING EACH WORK
ITEM WITH WORK DAYS REQUIRED.
PROVIDE TO STUDY LEADER.

C. OBTAIN COPY OF THE OVERALL
SCHEDULE AND USE IT
TO SCHEDULE THE ECONOMIST WORK
ITEMS ON DESK CALENDAR,
INDIVIDUAL ANNUAL PLAN OF
OPERATIONS OR STATE
ANNUAL PLAN OF OPERATIONS.

202AG ASSEMBLE BASIC STAFF
RESOURCE DATA

A. ASSEMBLE ON A WATERSHED OR
COUNTY BASIS AS
APPLICABLE. GATHER ONLY DATA
THAT IS USEFUL FOR
THE PROJECT EVALUATION AND
NARRATIVE

1. BASIC ECONOMY OF THE
AREA

- A. POPULATION- BOTH
RURAL AND URBAN, AGE,
EDUCATION, MINORITIES
- B. EMPLOYMENT BY SECTOR,
E.G. AG, MFG.,
COMMERCIAL, ETC.
- C. INCOME
 - (1) RANGE
 - (2) MEDIAN
 - (3) COMPARE TO
STATE AND NATION
- D. FARM AND RANCH
ENTERPRISES
 - (1) TYPE- DAIRY,
BEEF, SPECIALIZED,

CASH CROP, ETC.

- (2) SIZE
- (3) NUMBER
- (4) TENURE
- (5) AVERAGE VALUE
OF BUILDINGS

E. OFF-FARM EMPLOYMENT

- (1) NUMBER OF DAYS
- (2) KINDS, IF KNOWN

- 2. PROJECT BASE MAP.
- 3. SOILS INFORMATION
- 4. DRAINAGE AREA
- 5. COUNTY MAPS
- 6. AERIAL MOSAICS
- 7. WATERSHED LAND USE
(PRESENT AND FUTURE)
- 8. WATER AND LAND RESOURCE
PROBLEMS

SOURCE: PUBLISHED SOIL
SURVEYS, AERIAL PHOTOS,
CITY & COUNTY DATA BOOK, AG.
CENSUS, STATE AG.
STATISTICS, ONSITE FIELD
EXAMINATION,
APPLICATION FOR ASSISTANCE, AND
OTHER SUCH SOURCES.

B. OTHER DATA: (MOST RECENT
PRICES AND INTEREST
TO BE USED IN PLAN.)

- 1. PRICE DATA:
EHWR 620-C
PRICES PAID AND PRICES
RECEIVED BY
COMMODITY GROWN.
- 2. INTEREST RATES
EHWR 620.02 (C)
- 3. EVALUATION PERIOD
EHWR 620.02 (D)

SOURCE: NATIONAL BULLETINS,
EXTENSION SERVICE,
AG. STATISTICS,
AG. COMMISSIONERS

203AG COMPUTER PRO-
GRAMS

A. DETERMINE POTENTIAL FOR USE
OF COMPUTER PROGRAMS

- 1. ECON2-CALCULATE DAMAGES
TO CROPS & OTHER AG
- 2. LDAMG-CALCULATE LAND
DAMAGE
- 3. VAGPR-COMPUTE PROJECT
RETURNS FOR DIFFERENT

ALTERNATIVES

204AG PROBLEM AREA
LOCATION

- A. AERIAL PHOTOS OR MOSAICS OR OTHER SUITABLE BASE AND FLOOD PLAIN PROFILE SHOWING ELEVATION OF SIGNIFICANT PROPERTIES, PROBLEM AREAS, (FLOOD PLAINS) REACHES, AND CROSS SECTIONS.
- B. DETERMINE IF FLOOD DAMAGES WILL COVER ALL THE AREA OR IF A SAMPLE WILL BE USED.

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- C. DEFINE NUMBER AND LOCATION OF REACHES IN ORDER TO PROPERLY STRATIFY RESOURCE PROBLEMS FOR ANALYSIS. THINGS TO CONSIDER:
 - 1. ROAD CROSSINGS IN THE FLOODPLAIN
 - 2. HEIGHT OF ROADS CROSSING THE FLOODPLAIN
 - 3. OTHER NATURAL OBSTRUCTIONS
 - 4. HIGH DAMAGEABLE PROPERTIES
 - 5. SIMILIAR DAMAGE VALUES AND RATES

205AG DETERMINE
PRESENT
LAND USE
CROPPING PATTERNS
IN PROBLEM AREA

USE AERIAL PHOTOS, COUNTY LAND USE MAPS, AND ON SITE INVESTIGATIONS

206AG DETERMINE
FUTURE LAND USE-CROP-
PING PATTERNS IN
PROBLEM AREA

USE THE PRESENT LAND USE AND CROPPING PATTERNS AS A BASE

207AG DETERMINE BASE AG YIELDS UNDER PROBLEM FREE CONDITIONS	YIELDS SHOULD BE BASED ON INFORMATION OBTAINED FROM ON-SITE INTERVIEWS AND SIMILIAR PROBLEM FREE CONDITIONS. STATISTICAL REPORTING SERVICE COUNTY AVERAGES AND SOILS 5 YIELDS MAY BE HELPFUL. AVERAGE MANAGEMENT IS ASSUMED. DISPLAY IN TABLE FORM.
208WP ESTABLISH TYPE GS AND EXTENT OF EROSION PROBLEM	A. CLASSIFY AS SHEET AND RILL, CONCENTRATED FLOW OR STREAMBANK B. DETERMINE IF DAMAGES ARE IN EQUILIBRIUM, INCREASING, OR DECREASING IN EXTENT (AREA) OR DEGREE (SEVERITY). METHOD: EHWR 621-D
209WP SHEET & RILL EROSION	DEVELOP AVERAGE ANNUAL DAMAGES USING WORK ITEMS 210-225
210WP IDENTIFY NEEDED EVALUATION UNITS FOR CROPLAND, RANGELAND, & FOREST-LAND	CONSIDER DEGREE OF RESOURCE PROBLEMS, EFFECTIVENESS OF CONSERVATION PRACTICES, SOILS, PRECIPITATION, ETC.
211WP INVENTORY ACRES INTERSHED BY EVALUATION UNIT AND LEVEL OF MANAGEMENT	USE AERIAL PHOTOS, SOILS MAPS, FIELD OFFICE RECORDS
212WP SELECT SAMPLE FARMS IF NEEDED	USE SAMPLE FARMS TO OBTAIN USLE TRANS., TILLAGE OPERATIONS, YIELDS, RANGE CONDITION, FOREST TYPE
213WP OBTAIN ESTIMATES OF EROSION AND SEDIMENT DELIVERY BY EVALUATION UNITS	USE INFORMAION FROM RIVERBASIN STUDIES, SAMPLE FARMS, ETC.. INCLUDE ALL TYPES OF EROSION-- (SHEET & RILL, CONCENTRATED FLOW, GULLY, STREAM-BANK) SEDIMENT DELIVERY FROM SEDIMENT POND STUDIES CAN ALSO BE USEFUL.
214WP CROPLAND	DEVELOP AVERAGE ANNUAL DAMAGES USING WORK ITEMS 215-218
215WP DEVELOP YIELD MATRIX BY EVALUATION UNIT, CROPPING SYSTEM, LEVEL OF MANAGEMENT, & STRUCTURAL PRACTICE	USE SOILS 5 YIELDS AND ASCS PROVEN YIELDS ADJUSTED BY PROFESSIONAL JUDGEMENT BY QUALIFIED AGRICULTURAL OFFICIALS, AND ON FARM INTERVIEWS
216WP DEVELOP TILLAGE OPERATION MATRIX BY CROPPING SYSTEM & LEVEL OF MANAGEMENT	USE EXTENSION SERVICE CROP BUDGETS, RIVERBASIN BUDGETS, AND SAMPLE FARM BUDGETS ADJUSTED BY PROFESSIONAL JUDGEMENT AND ONFARM INTERVIEWS
217WP DETERMINE VAR-	USE TILLAGE OPERATIONS IDENTIFIED IN WORK ITEM

I. COSTS BY CROPPING SYSTEM, LEVEL OF MANAGEMENT AND STRUCTURAL PRACTICES

216WP TO ESTIMATE VARIABLE COSTS BY CROPPING SYSTEM AND LEVEL OF MANAGEMENT. FOR STRUCTURAL PRACTICES DETERMINE ADDITIONAL LABOR, SEED, FERTILIZER, FUEL, ETC.. USE SAMPLE FARM INTERVIEWS, UNIVERSITY OF IDAHO FARM SIMULATION PROGRAM, OR SIMILIAR COMPUTER PROGRAM

218WP DETERMINE LOSS OF LONG TERM PRODUCTIVITY

BASED ON RATE OF SOIL LOSS DETERMINE LOSS IN LONG TERM PRODUCTIVITY. VARIOUS COMPUTER MODELS ARE AVAILABLE--EPIC, ICE, ETC.

219WP RANGELAND	CALCULATE AVERAGE ANNUAL DAMAGES USING WORK ITEMS 220-222.
220WP OBTAIN RANGE PRODUCTIVITY RESPONSE MATRIX BY EVALUATION UNIT BY PRACTICE	FOR EACH EVALUATION UNIT DETERMINE RANGE CONDITION RESPONSE TIME BY PRACTICE. USE CASE STUDIES, SAMPLE FARMS, AND PROFESSIONAL JUDGEMENT
221WP DETERMINE CHANGE IN COSTS FOR RANGE MANAGEMENT PRACTICES	FROM SAMPLE FARMS, EXTENSION BULLETINS, ETC., DEVELOP PARTIAL BUDGETS
222WP CONVERT RESPONSE MATRIX TO ANNUAL RESPONSE	CONVERT RESPONSE MATRIX TO ANNUAL RESPONSE BY EVALUATION UNIT AND PRACTICE
223WP FORESTLAND	CALCULATE AVERAGE ANNUAL DAMAGES USING WORK ITEMS 224-225.
224WP OBTAIN FOREST PRODUCTIVITY DATA	OBTAIN FOREST PRODUCTIVITY RESPONSE DATA BY EVALUATION UNIT AND PRACTICE. AGNET PRODUCTIVITY PROGRAMS ARE AVAILABLE FOR CERTAIN SPECIES.
225WP DETERMINE CHANGE IN COSTS	DETERMINE CHANGES IN COSTS FOR FOREST MANAGEMENT PRACTICES
226WP OTHER SEDIMENT & EROSION DAMAGES	CALCULATE AVERAGE ANNUAL DAMAGES USING WORK ITEMS 227-234
227WP DETERMINE OTHER DAMAGES FROM SEDIMENT & EROSION	CONSIDER DAMAGES FROM CROPLAND VOIDING, CROP SMOTHERING, ETC.
228WP DETERMINE OFF-FARM DAMAGES FROM EROSION AND SEDIMENT	CONSIDER DAMAGES TO ROADS, DITCHES, RESERVOIRS, RECREATION, NAVIGATION, POWER GENERATION, FISHERIES, ETC.
229WP DETERMINE INCENTIVE PAYMENTS FOR MANAGEMENT PRACTICES	USE RATES FROM PREVIOUS PROJECTS ADJUSTED BY RESPONSE FROM MEETINGS WITH SPONSORS AND PUBLIC MEETINGS
230WP DETERMINE COSTS FOR STRUCTURAL PRACTICES	USE ACP RATES WHEN AVAILABLE
231WP DETERMINE LEVEL OF PARTICIPATION	BASE ON GOALS OF SPONSORS & LEVEL OF INCENTIVE PAYMENTS (REVIEW TECH NOTE BY BARBARA OSGOOD)
23 COMPUTE BENEFITS	COMPUTE AVERAGE ANNUAL BENEFITS BY EVALUATION UNIT FOR EACH MANAGEMENT LEVEL AND STRUCTURAL PRACTICE.

BASE BENEFITS ON CHANGES ON YIELDS, VARIABLE COSTS,
M AND OFF-FARM DAMAGES.

233WP COMPUTE COSTS

COMPUTE AVERAGE ANNUAL COSTS BY LEVEL OF MANAGEMENT
AND STRUCTURAL PRACTICE. THIS IS DONE BY
AMORTIZING COSTS DETERMINED IN WORK ITEM 229 & 230.

234WP INCREMENTAL
ANALYSIS

CONDUCT AN INCREMENTAL ANALYSIS BY EVALUATION UNIT
TO DETERMINE THE NED ALTERNATIVE.

METHOD: NWSM 504

235WP EROSION AND SEDIMENT	DEVELOP AVERAGE ANNUAL DAMAGES USING WORK ITEMS 236-252.
236WP DETERMINE CURRENT LAND USE	DEVELOP CROPPING PATTERNS ON PROBLEM FREE AREAS BY REACHES AND DISPLAY ON BASE MAPS AND IN A TABLE WITH ACRES AND/OR PERCENT LAND USE AND CROPS GROWN. CORRELATE CURRENT LAND USE TO LAND USE DEVELOPED IN WORK ITEM 205.
237AWP PROJECT FUTURE LAND USE AND CROPPING PATTERNS	DETERMINE WHAT CHANGE IS EXPECTED FROM THE CURRENT CONDITION. PROJECT BY APPROPRIATE TIME PERIOD AND DISPLAY IN TABLE. PROJECTIONS SHOULD BE BASED ON INTERVIEWS WITH FARMERS, LOCAL RESIDENTS, EXTENSION PERSONNEL, AND OTHER KNOWLEDGEABLE PEOPLE. CORRELATE FUTURE LAND USE TO LAND USE DEVELOPED IN WORK ITEM 206.
238WP ESTABLISH CURRENT YIELDS WITH SEDIMENT AND/OR EROSION	YIELDS SHOULD BE DETERMINED FROM DAMAGE QUESTIONNAIRES FROM AFFECTED RESIDENTS. AVERAGE MANAGEMENT IS ASSUMED. YIELDS REFLECT THE CURRENT EROSION PROBLEM AND OTHER HAZARDS STILL EXIST.
239WP PROJECT FUTURE YIELDS WITHOUT EROSION OR SEDIMENT	DETERMINE CHANGE EXPECTED FROM CURRENT CONDITIONS PROJECT BY TIME PERIOD AND DISPLAY RESULTS IN A TABLE.
240WP COMPUTE PROJECTED DAMAGEABLE VALUES	USE PROJECTED YIELDS ESTIMATED ABOVE TIMES THE CURRENT NORMALIZED PRICES AND DISPLAY IN TABLE.
241WP CALCULATE NET RETURNS FOR CROPS	USE CROP BUDGETS TO CALCULATE VARIABLE COSTS AND WITH THE PROJECTED VALUES FROM WORK ITEM 240 TO CALCULATE THE NET RETURNS FOR EACH CROP. 1. CALCULATE FUTURE WITHOUT PROJECT RETURNS 2. CALCULATE RETURNS FOR EACH ALTERNATIVE
242WP EROSION-CONCENTRATED FLOW DAMAGES	CALCULATE NET LOSS IN INCOME AS A RESULT OF OF CONCENTRATED FLOW AND DISPLAY IN TABLE AS POTENTIAL RECOVERABLE NET INCOME.
243WP EROSION-CONCENTRATED FLOW BENEFITS	CALCULATE INCREASED INCOME TO LAND
244WP SEDIMENT SWAMPING DAMAGE	CALCULATE NET LOSS IN INCOME AS A RESULT OF SWAMPING AND DISPLAY IN TABLE AS POTENTIAL RECOVERABLE NET INCOME. METHOD: EHWR 621-D
24 SEDIMENT SWAMPING BENEFITS	CALCULATE INCREASED NET INCOME TO LAND METHOD: EHWR 621-D

24 SEDIMENT DEP- GS
OSITION DAMAGE

CALCULATE NET LOSS IN INCOME AS A RESULT
OF SEDIMENT AND DISPLAY IN TABLE AS POTENTIAL
RECOVERABLE NET INCOME.

METHOD: EHWR 621-D

247WP SEDIMENT DEP-
OSITION BENEFITS

CALCULATE INCREASED NET INCOME TO LAND

METHOD: EHWR 621-D

2. SEDIMENT GS CALCULATE NET LOSS I
 N INCOME AS A RESULT OF SCOUR
 SCOUR DAMAGE AND DISPLAY IN TABLE AS POTENTIAL RECOVERABLE NET
 INCOME.
 METHOD: EHWR 621-D
- 249WP SEDIMENT CALCULATE INCREASED NET INCOME TO LAND
 SCOUR BENEFITS METHOD: EHWR 621-D
- 250WP SEDIMENT-OTHER GS DETERMINE THE NUMBER AND LOCATION OF PROPERTIES
 PROPERTIES INVENTORY EFFECTED. USE A MAP OR TABLE TO DISPLAY THE
 PROPERTIES EFFECTED.
- 251WP SEDIMENT-OTHER GS
 PROPERTIES DAMAGES
- A. DETERMINE ADVERSE EFFECTS OF SEDIMENT TO DRAINS
 1. CONSIDER COSTS OF REMOVAL & HAULING
 2. ADJUST DAMAGES FOR NORMAL MAINTENANCE
 3. IDENTIFY SOURCE OF DAMAGES SO EFFECTS CAN
 BE DETERMINED FOR DIFFERENT ALTERNATIVES
 - B. DETERMINE ADVERSE EFFECTS OF SEDIMENT TO
 IRRIGATION SYSTEMS.
 1. CONSIDER COST OF REMOVAL & HAULING
 2. IF LOSS OF INCOME DUE TO LOSS OF USE, USE
 WORK ITEMS DESCRIBED IN IRRIGATION SECTION.
 THE COST TO RESTORE WATER DELIVERY TO THE
 AREA NEEDS TO BE INCLUDED.
 3. ADJUST DAMAGES FOR NORMAL MAINTENANCE
 4. IDENTIFY SOURCE OF DAMAGES SO EFFECTS CAN
 BE DETERMINED FOR DIFFERENT ALTERNATIVES
 - C. DETERMINE ADVERSE EFFECTS OF SEDIMENT TO DAMS
 1. LOSS OF SERVICE METHOD--BASED ON EXTENDING
 LIFE OF DAM
 2. COST OF SEDIMENT REMOVAL METHOD--BASED ON
 ACTUAL COSTS OF REMOVING SEDIMENT
 3. ADJUST DAMAGES FOR NORMAL MAINTENANCE
 4. IDENTIFY SOURCE OF DAMAGES SO EFFECTS CAN
 BE DETERMINED FOR DIFFERENT ALTERNATIVES
 - D. ESTIMATE SEDIMENT DAMAGES TO M&I WATER SUPPLIES
 1. CONSIDER COST OF REMOVAL, DAMAGE TO
 EQUIPMENT, AND ADDITIONAL TREATMENT COSTS
 FROM SEDIMENT FROM PROJECT AREA.
 - E. ESTIMATE SEDIMENT DAMAGE AFFECTING PRODUCT
 QUALITY.
 - F. INVENTORY EACH OF THE FOLLOWING ITEMS OCCURRING
 IN THE PROBLEM AREA:
 1. MILES OF FENCE
 2. ACRES OF DEBRIS
 3. ACRES OF WEED SEED
 4. NUMBER, LOCATION, AND ELEVATIONS OF FARM-
 STEADS
5. AMOUNTS OF FARM MACHINERY, LIVESTOCK, COR-
 RALS, IRRIGATION EQUIPMENT
 - A. CONSIDER INCREASED REPAIRS

- B. CONSIDER REDUCED LIFE OF MACHINES
- 6. LENGTHS OF FARM ACCESS ROADS, FIELD ROADS, DIVERSIONS, AND LEVEES
- 7. NUMBER AND LOCATION OF FARM ROAD CULVERTS, BRIDGES, AND OTHER SUCH IMPROVEMENTS
- 8. HIGH-WATER MARKS
- G. TABULATION OF DAMAGE OCCURRING IN EACH REACH

252WP SEDIMENT-OTHER
PROPERTIES BENEFITS

REDUCED COST OF REMOVAL, INCREASED INCOME,
INCREASED LIFE OF DAM, OR REDUCED COSTS

253WP EROSION-GULLY GS DAMAGE	CALCULATE NET INCOME LOSS TO LAND BY TIME FRAME BY SOILS TYPE. A. CONSIDER TEMPORARY MEASURES AND RELOCATON B. CALCULATE VOIDING DAMAGES C. CALCULATE DEPRECIATED VALUE OF AREAS NEAR THE GULLIES METHOD: EHWR 621-D
254WP EROSION-GULLY BENEFITS	DISPLAY CHANGE IN NET INCOME TO LAND FOR EACH ALTERNATIVE.
255WP EROSION STREAM-GS BANK EROSION DAMAGE	DETERMINE ADVERSE EFFECTS OF STREAMBANK EROSION. CONSIDER TEMPORARY MEASURES AND RELOCATION METHOD: EHWR 621-D
256WP EROSION STREAM- BANK EROSION BENEFIT	DISPLAY CHANGE IN NET INCOME TO LAND FOR EACH ALTERNATIVE.
257WP EROSION STREAM-GS BANK INCISION DAMAGE	DETERMINE ADVERSE EFFECTS OF STREAMBANK INCISION. METHOD: EHWR 621-D
258WP EROSION STREAM- BANK INCISION BENEFIT	DISPLAY CHANGE IN NET INCOME TO LAND FOR EACH ALTERNATIVE.
2' INTENSIFICA- T1.	THIS IS FOR BENEFITS DERIVED FROM A CHANGE IN LAND USE OR CROPPING PATTERN. USE THE FOLLOWING WORK ITEMS TO CALCULATE INTENSIFICATION BENEFITS.
260WP NON-AG	A. USE THE WORK ITEMS FOR INTENSIFICATION DESCRIBED UNDER URBAN FLOODING.
261WP AG BASIC DATA	A. GATHER PHYSICAL, ECONOMIC, AND SOCIAL DATA NEEDED TO EVALUATE THE BENEFITS. 1. AGRONOMIC POTENTIAL OF THE LAND. 2. TYPE OF FARMING. 3. WIDTH AND TOPOGRAPHY OF AREA TO BENEFIT. 4. NEED FOR RESULTING PRODUCTION. 5. DEGREE OF PROTECTION OR SERVICE OFFERED BY PLANNED IMPROVEMENTS. 6. LAND USE CHANGE THAT THIS PROTECTION WILL ALLOW. 7. WILLINGNESS AND ABILITY OF PRODUCERS TO DEVELOP THE LAND. 8. AVAILABILITY OF MARKETS FOR PRODUCTS. 9. RESTRICTIONS OF ACREAGE ALLOTMENTS, MARKETING QUOTAS, OR ZONING. B. EVALUATE THE PRODUCTIVITY AND RESPONSIVENESS OF THE LAND TO THE PRODUCTION INPUTS. METHOD: EHWR 621-A C. USE THE WORK ITEMS FOR INTENSIFICATION

DESCRIBED UNDER THE IRRIGATION SECTION

262WP ADJUSTMENTS
TO DAMAGES

ADJUST THE CALCULATED DAMAGES TO ACCOUNT FOR THE
FOLLOWING SITUATIONS WHEN THEY APPLY.
A. ADJUST BENEFITS TO ACCOUNT FOR TIME REQUIRED TO
CLEAR LAND OR PROPERLY PREPARE THE LAND
METHOD: EHWR 621-A
B. ADJUST BENEFITS TO ACCOUNT FOR DELAYS STEMMING
FROM MANAGEMENT AND FINANCIAL LIMITATIONS.
METHOD: EHWR 621-A

F. OTHER VALUED GOODS WILL TAKE	C. IF DEVELOPMENT O
	PLACE WITH PROJECT AND WILL BE SUBJECTED TO SOME REMAINING FLOODING, BENEFITS FROM THE PROJECT NEED TO BE REDUCED.
	METHOD: EHWR 621-A
	D. PARTICIPATION BY PRODUCERS WILL NOT BE 100 PERCENT AND BENEFITS WILL NEED TO BE ADJUSTED.
263WP OFFSITE	EVALUATE POSSIBLE OFFSITE DAMAGES THAT COULD BE ALLEVIATED WITH PROJECT ACTION. SUCH OFFSITE DAMAGES COULD INCLUDE DAMAGES TO: OYSTER BEDS, RECREATION, NAVIGATION, POWER GENERATION, FISHING, ETC.
264WP FOR VARIOUS ALTERNATIVES OBTAIN COST FOR ENDURING MEASURES AND MANAGEMENT PRACTICES	<p>PE ESTIMATES ARE MADE BY PLANNING STAFF BASED ON RECENT INSTALLATION EXPERIENCE.</p> <p>A. CONSTRUCTION OR INSTALLATION COST NWSM 501.30H, EHWR 630.01</p> <p>B. ENGINEERING OR TECHNICAL SERVICES NWSM 501.30E</p> <p>C. LAND RIGHTS - NWSM 501.30G, EHWR 629</p> <p>D. WATER RIGHTS - NWSM 501.30F</p> <p>E. PROJECT ADMINISTRATION COST - NWSM 501.30J</p> <p>F. OPERATION, MAINTENANCE AND REPLACEMENT - ESTIMATES MADE BY PLANNING STAFF AND LOCAL SPONSORS BASED ON SIMULATED OR RECENT O&M EXPERIENCES. NWSM 501.30L, EHWR 630.01B</p> <p>G. ASSOCIATED COST - NWSM 501.30M, EHWR 630.02</p> <p>H. EXTERNAL DISECONOMIES - NWSM 501.300, EHWR 630.01C</p> <p>I. NONPROJECT COST - NWSM 501.30P</p>
265WP DEVELOP NED ALTERNATIVE	DO INCREMENTAL ANALYSIS TO ADD MEASURES IN ORDER OF GREATEST RETURN PER DOLLAR OF COST. DESIGNATE NED ALTERNATIVE; DOCUMENT IN TABULAR FORM.
266WP DEVELOP RE-SOURCE PROTECTION PLAN	<p>ADD ADDITIONAL MEASURES OR PRACTICES IF NECESSARY TO PROTECT THE LONG TERM PRODUCTIVITY OF THE RESOURCE AT THE LEAST COST.</p> <p>METHOD: EHWR 622.02</p>
267WP ESTIMATE EMPLOYMENT BENEFITS RESULTING FROM PROJECT INSTALLATION AND PROJECT OPERATION AND MAINTENANCE.	<p>EMPLOYMENT BENEFITS CAN BE CLAIMED IN AREAS OF UNEMPLOYED OR UNDEREMPLOYED LABOR.</p> <p>METHOD: EHWR 627</p>
268WP DEVELOP DATA FOR NB ACCOUNT.	WHERE NECESSARY DEVELOP A SOCIAL WELL BEING ACCOUNT TO DISPLAY PROJECT EFFECTS RELEVANT TO DECISION-MAKERS. USE CENSUS DATA AND OTHER APPROPRIATE

REFERENCES TO DEVELOP INCOME CLASS AND PERCENTAGES FOR EACH CLASS.

269WP COST SHARING PE

METHOD: NWSM 504

270WP DEVELOP NED
& RP DISPLAYS

A. ASSIST STUDY LEADER TO PREPARE FOR PUBLIC MEETINGS AND REPORTS, THE NECESSARY MAPS, TABLES, AND DISPLAYS TO CLEARLY DESCRIBE NED MEASURES AND EFFECTS: USE DATA FROM COMPLETED WORK ITEMS ABOVE (INCLUDE TIME FOR REVISIONS AS A RESULT OF PUBLIC

INPUT.

271WP PREPARE ECON-
OMIC PORTIONS OF THE
PLAN, EIS, AND DOC-
UMENTATION.

- A. PREPARE, AS ASSIGNED, ECONOMIC PORTIONS OF THE PLAN, EIS, ENV. ASSESS. SUMMARY, ETC.
- B. ASSEMBLE ALL RELEVANT ECONOMIC DOCUMENTATION IN NOTEBOOKS (PREFERABLY ONE) SUITABLE FOR REVIEW. REFER TO ORGANIZATION OF DOCUMENTATION CHECKLIST IN THIS GUIDE.
- C. PARTICIPATE IN RESOLVING STATE AND NTC COMMENTS

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