

US EPA ARCHIVE DOCUMENT

Performance Measures

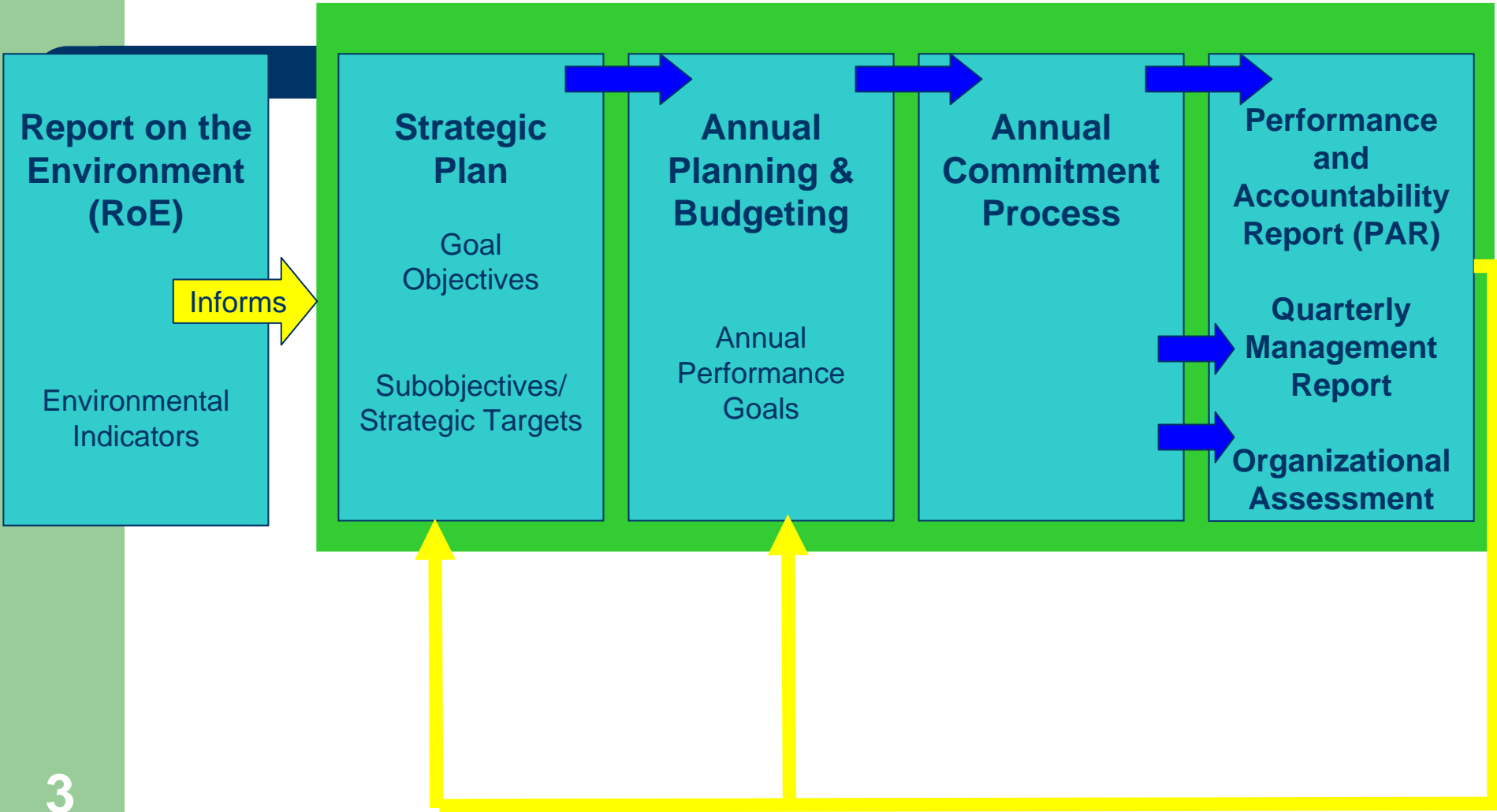
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National Program Goal

Protect **public health** and the **environment** by ensuring pesticides and alternatives are **safe and available** for a healthy America.

EPA's Performance Measures Framework



PPDC Performance Measures Work Group: OPP's Request

- Provide **advice** through the PPDC on the measures OPP develops, and
- Provide **ideas** through the PPDC about other ways to measure performance

MISSION AREA: PROTECT HUMAN HEALTH

Executive Lead – Debbie Edwards

Reduce risk to GENERAL PUBLIC	Reduce risk to INFANTS AND CHILDREN
Reduce risk to WORKERS	PUBLIC HEALTH benefits

PROTECT HUMAN HEALTH

GENERAL PUBLIC	INFANTS AND CHILDREN
WORKERS	PUBLIC HEALTH

HH2: Measure conc. in drinking water over time as a result of mitigation

HH5: Reduce the number of acute poisoning incidents from pesticides In and around the home

HH1: Reduce the level of currently registered pesticides in the general population (NHANES)

Key: Long blocks = strategic measures
Short blocks = "internal" measures
Filled in blocks = in Strategic Plan
Dotted line = developmental measure

HH = Human Health

PROTECT HUMAN HEALTH

GENERAL PUBLIC	INFANTS AND CHILDREN
WORKERS	PUBLIC HEALTH

HH3: Reduce pesticide residues in the 20 foods most commonly eaten by children using the PDP residue data

PROTECT HUMAN HEALTH

GENERAL PUBLIC	INFANTS AND CHILDREN
WORKERS	PUBLIC HEALTH

WS1: Survey of ag
workers' awareness of
WPS provisions

**WS4,6: Support a low rate of poisoning incidents.
Cumulative reduction in moderate – severe
incidents for 6 pesticides with highest incident
rate.**

WS = Worker Safety

PROTECT HUMAN HEALTH

GENERAL PUBLIC	INFANTS AND CHILDREN
WORKERS	PUBLIC HEALTH

HH4: Ensure efficacious public health antimicrobial products in the marketplace

MISSION AREA: PROTECT THE ENVIRONMENT

Executive Lead – Steve Bradbury

Protect the physical elements of the environment – air, land, water

Protect the organisms in the environment

PROTECT THE ENVIRONMENT

Physical

Organisms

WQ2: Efficiency measure for evaluating and managing pesticides' water quality

WQ3: Tiered approach to managing 303(d) list concerning pesticides

WQ1: Tiered approach to evaluating and managing pesticides to protect water quality – step 3: demo progress

EN4: Increase % of acreage by crop moving to reduced risk chemicals

EN1: Using EMAP and pesticide usage data, select and track priority aquatic environments

WQ = Water Quality; EN = Environment Mission Area

PROTECT THE ENVIRONMENT

Physical

Organisms

ES4: Cum. % of OPP actions for which OPP has implemented appropriate ES determinations

EN2: Decrease % mortality of honey bee colonies due to pesticides

ES3: Cum. % of Sec. 18 requests with a credible effort to consider ESA implications

ES1: % reduction each year in av. cost and av. time to produce ES Bulletin

PROTECT THE ENVIRONMENT

Physical

Organisms

NEW: For key pesticides, reduce the number of urban and agricultural watersheds exceeding aquatic life benchmarks using USGS's National Ambient Water Quality Assessment (NAWQA) data.

EN3: "Meta-measure" – using performance measures developed by Task Groups and investigation of existing measures and data, develop an index to gauge environmental quality as it relates to pesticides

MISSION AREA: REALIZING “OTHER BENEFITS”

Executive Lead – Lois Rossi

Benefits from having pesticide “tools” available to minimize or prevent pest damage

Reductions in costs that resulted from management of pesticide risks

OB = Other Benefits Mission Area;

SA = Strategic Ag + Pesticide Environmental Stewardship Program

OTHER BENEFITS

Benefits from use of pesticide tools

Reduced Cost

OB6: Resistance management

SA1: Reports in SAI db show increase in use of whole farm practices on transition gradient

SA2: % of crop transitioned grant funds/# of acres transitioned

OB8: Incidents and costs associated with vector borne diseases

OB1: Avoided crop loss due to pests measured thru the Section 18/Section 3 program

NEW: 12 lower risk pesticide alternatives with coordinated approval among international partners

OTHER BENEFITS

Benefits from use of
pesticide tools

Reduced Cost

OB7: Reduce expenditures resulting from insect structural damage

OB2: Decreased costs associated with pesticide exposure (benefits from “me-too” registrations)

Your Opportunity to Comment on the EPA Strategic Plan:

- OPP has proposed a focus on 3 mission areas to better suit our *outcome* focus
- Look for OPP under **Goal 4**
- Web address:

www.epa.gov/ocfo/plan/plan.htm

Elements of the Work Group Report:

General Observations

- Appreciate the open discussion
- Immense program that has a global, national and regional basis
- Important to recognize risks and benefits
- Don't throw away the old output measures – use existing databases, recognizing limitations

Elements of the Work Group Report:

General Observations

- Data have significant cost – any resources put to measurement should have significant ROI
- Since other agencies “own” the data OPP uses for some measures, important to coordinate with other agencies on data gathering
- Mine available data – trends, extrapolations, etc.
- Needs a strategic commitment of resources

Elements of the Work Group Report: Human Health

- Use NHANES data with care – both underestimates and overestimates are possible
- Couch measures in terms of *minimizing exposures*
- Use Poison Control Center with care – need to delve deeper than number of calls

Elements of the Work Group Report: Environment

- Think beyond endangered species – for example, what about the USGS breeding bird data?
- Encourage OPP to develop measures for protecting terrestrial ecosystems

Elements of the Work Group Report:

Other Benefits

- Needs a name change! – suggestion: Value of pesticide availability
- Least developed of the mission areas – needs more measures developed
- Encourage OPP to solicit ideas for additional measures in this mission area
- Encourage development of a measure highlighting IPM in schools

Next steps...

- Submit Work Group report to full PPDC
- Stay in touch to provide advice/support to OPP on key items as they come up
- Review any new measures, final measures
- Track implementation

Questions for the PPDC...

- How does the PPDC want to address these next steps?
- Should the Work Group continue?