TECHNICAL MEMORANDUM

July 1980

UPLAND DETENTION/RETENTION DEMONSTRATION PROJECT

ANNUAL REPORT TO THE

COORDINATING COUNCEL ON THE RESTORATION OF THE KISSIMMEE RIVER VALLEY AND TAYLOR CREEK/ NUBBIN SLOUGH BASIN

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by

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INTERIM REPORT

Any findings, conclusions, and actual data are subject to change and/or revision.

Final publication of these data will be included in future District reports to the Coordinating Council on the Restoration of the Kissimmee River Valley and Taylor Creek/Nubbin Slough Basin.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

INTRODUCTION

This annual report is designed to inform the Coordinating Council on the Restoration of the Kissimmee River Valley and Taylor Creek/ Nubbin Slough Basin (KRVCC) and other interested parties of the progress to date achieved by this agency (SFWMD) on the Upland Detention/Retention Project currently in progress.

The SFWMD has contractually agreed to carry out basic hydrological engineering design studies and to perform designated construction activities at the five major study sites. Routine water quality and quantity monitoring are also designated as the District's responsibility.

Previously submitted reports to Council (July 1979, January 1980) documented the background and history of the SFWMD's role with the KRVCC in the Upland Demonstration Project, presented technical information concerning construction activities, and detailed hydrological and laboratory methodology. In addition, the January 1980 report (Goldstein, et al, 1980) contained data summaries as well as results of preliminary analyses.

Since the above referenced report, there have been no alterations of laboratory methodology nor quality control procedures. With the exception of some efforts at field verification, no new progress can be reported in the analysis of hydrology data.

In the interest of efficiency and elimination of redundancy, the current discussion will serve as an update of those activities where progress has occurred subsequent to that reported in the January 1980 document. These areas are specifically construction, water quality monitoring, and reports.

This report will contain a project status update in these areas covering the subject period July 1979 through July 1980, with the

exception of the water quality data analysis which will cover the first full year's data set, April 1, 1979 - March 31, 1980.

Each of these elements will be discussed in detail in the individual chapters that follow.

Site description maps depicting sampling station locations are presented in Appendix I.

ELEMENT I ENGINEERING AND CONSTRUCTION ACTIVITIES

Introduction

During and subsequent to the subject time period July 1, 1979, through June 30, 1980, engineering activity for the Upland D/R Project has been directed toward completion of the flow control and measurement structures and maintenance and repair of ditches, plugs, and levees required to establish and maintain hydrological integrity at each site. Emphasis over this time period has been placed on installation of the culverts and catwalk structure at Armstrong Slough as well as build-up of the access road to S65A, design and installation of a large earthern plug in the main channel upstream of the Armstrong Slough culvert, fabrication and installation of protective shelters to house automatic water sampling devices at the SEZ Dairy and Ash Slough site outfalls, installation of electrical power at Ash Slough and SEZ Dairy, and routine maintenance. Efforts were made to determine the causes of the washouts that occurred at the critical depth flumes at both the Wildcat and Armstrong sites. These structures were repaired or replaced as necessary, incorporating new design criteria that should reduce or eliminate the possibility of recurrence of similar type of events. In this chapter, each of these activities will be discussed.

Culvert Completion at Armstrong Slough

During the latter part of July 1979, catwalks were installed above the risers at the culverts under the S65A access road. Later in the year, additional sheet piling was put into place to shore up and protect the wingwalls from excessive gullying.

Installation of Armstrong Slough Plug

As of the subject date of this report, an earthen plug was designed and subsequently constructed in the Armstrong Slough main channel about 500 yards upstream of the large culverts under the S65A access road. The plug is an elongated structure almost 1200 feet long encompassing a central equilization pond (Figure I-1). The purpose of the plug and associated diversion ditches is to detour water from the main channel and force it out over the low lying areas to the north and south thereby creating a flow through the marsh. Theoretically, reduction in flow velocity and the resulting increased exposure in wetlands thus created will facilitate the settling of suspended solids and enhance nutrient uptake. Construction was begun in early April and completed in early June 1980. Impacts of the construction activities or the creation of the marsh will be detailed in the project final report.

Protective Instrument Shelters

Instrument shelters were installed at the SEZ Dairy outfall at Wolf Creek and at the Ash Slough site outfall. The primary purpose of the shelters was for protection from the elements of refrigerated automated water sampling devices. Problems with vandalism at the SEZ Dairy site however required that the shelter there serve a dual purpose by protecting the delicate instrumentation from human tampering and destruction. To date, vandalism problems have been solved by the installation of a heavy gauge steel shelter suspended across the perimeter ditch. This structure is described in detail in the January 1980 semi-annual report.

Since vandalism is unlikely at Ash Slough, such elaborate and expensive devices were considered to be unnecessary. A protective shelter was constructed of wood frame and siding. The structure is supported on four

4x4 pilings and has a shingle roof. It is vented and contains a 110-volt electrical receptacle. The shelter was installed about 15 feet to the west of the outfall culverts in the marsh.

Installation of Power

110-volt electrical power was installed at the SEZ Dairy and Ash Slough sites in April of 1980. A local contractor installed meter poles and meter box assemblies and ran power lines into the instrument shelters. Glades Electric, a public utility co-op, completed the task by installing the necessary power lines and providing the hookup at the meter poles. Refrigerated automatic water sampling devices were subsequently installed and have been in use since.

Operation and Maintenance

The washouts of the flumes at Armstrong and Wildcat Sloughs during a period of heavy rains that preceded and accompanied Hurricanes David and Frederic were discussed in detail in the January 1980 report. That report also documented the meetings and inspections held to determine the sources of greater than expected flows and the types of remedial actions that could be taken in structure design so that peak flows of the observed magnitude could be handled without sacrificing flow measurement sensitivity at low to normal flows.

Reconstruction of the Armstrong Slough flume consisted of enlarging the throat from 3 to 15 feet thereby increasing the maximum capacity from 40 cfs to 300 cfs, shortening of the south tie-back levee by approximately 200 feet for blowout protection during extremely high flows, placement of granite rip rap to reduce erosion and dissipate energy, and installation of concrete anchor wings on the top of the tie-back levee. These activities

began in mid-February and were completed by mid-April 1980.

Restoration of the Wildcat Slough flume consisted of minor levee repair, reshoring of flume apron wing walls, concrete anchor wings on top of the tie-back levee, and the placement of rip rap on both the upstream and downstream sides of the flume to dissipate energy and prevent erosion. This repair activity was started and completed in February 1980.

Other

Necessary maintenance and repair activities had been identified at both the Ash Slough and Peavine Pasture sites. This need was largely confined to repair of ditches, levees, and plugs.

In February, major activities were begun at Ash Slough. These activities included filling of gullies at the main tie-back levee, placement of rip rap, and minor channelization of the downstream side of the large flume in the west pasture. The north-south runoff control levee was redressed to fill a large breach. The small flume on the east side of the detention/retention marsh was replaced by a better designed reinforced structure. The sheetflow interceptor ditch was recut, enlarged, and extended northward to tie in with the main levee thereby hydrologically isolating the marsh. These activities were completed in mid-February 1980.

Some minor repair of the earthen plug in the north arm of the defined channel at Peavine Pasture and minor repair of the flume tie-back levees was accomplished during mid-May 1980.

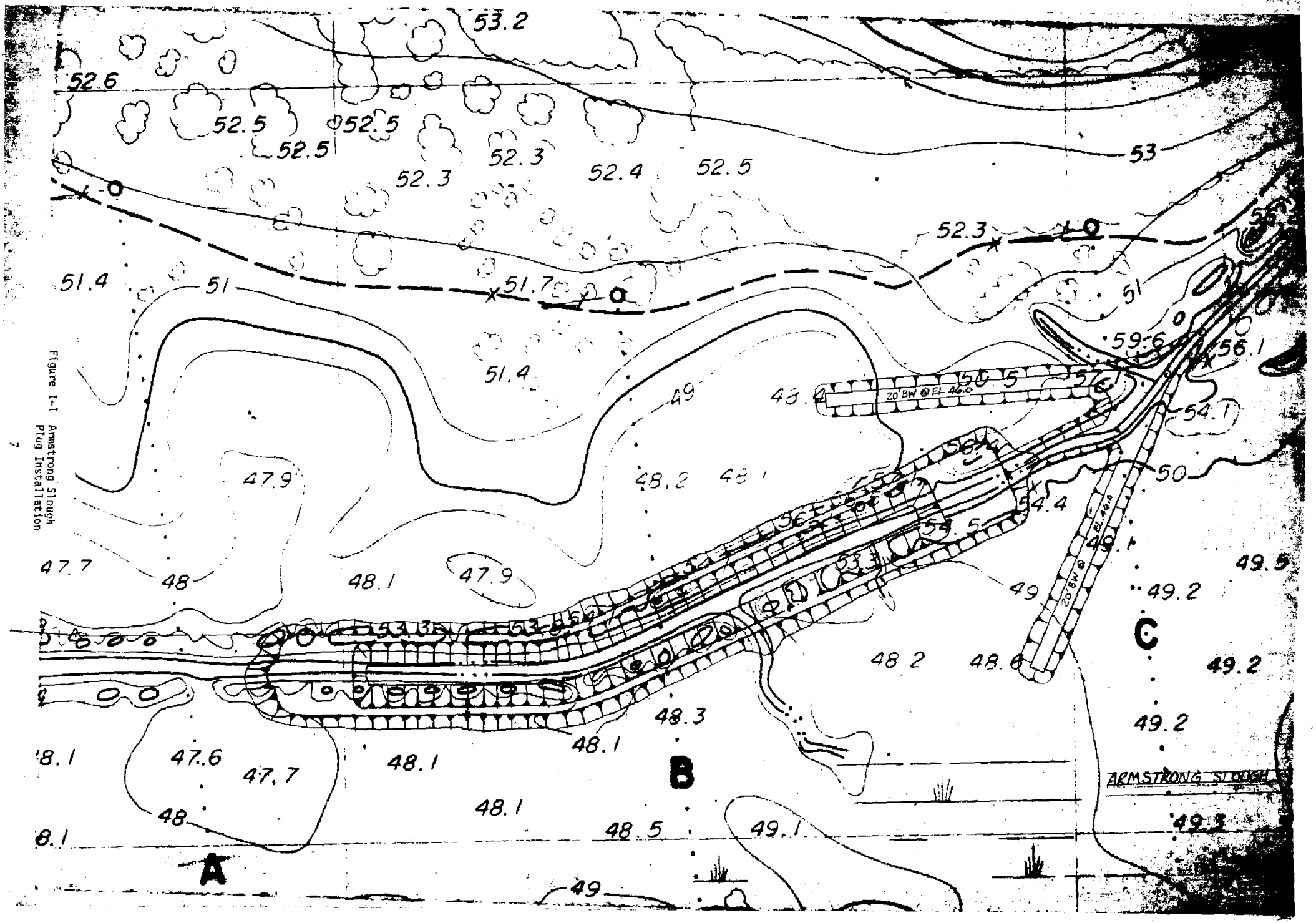


Figure 1-1 Armstrong Slough Plug Installation

ELEMENT III WATER QUALITY MONITORING

By memorandum, five major areas of emphasis for the water quality sampling program were proposed to the KRVCC staff (Goldstein, et al, 1980). These areas of emphasis are based on contractual requirements laid out in the agreement between the KRVCC and the SFWMD for the Upland Demonstration Project. The memorandum specifies those tasks that the Okeechobee Environmental Research Center (OERC) staff performs and the manner and type of analyses that fulfill obligations of the SFWMD to the KRVCC. This memorandum, presented originally as a basis for discussion, has been accepted as a list of tasks and functions considered by the OERC and KRVCC as those activities that will be sufficient to satisfy the specific contractual requirements.

The following discussion will address the status of each of the specified tasks or activities.

I. Surface Water Quality Parameter Concentrations and Budgets

As described in the July 1979 annual report to the KRVCC, OERC personnel continue to monitor water quality stations at each site. As of October 1979, the routine sampling program has been cut back from weekly to biweekly as specified in the contractual agreement.

In the wake of Hurricane David, high water left some routine grab sampling stations inaccessible for several weeks. These stations were specifically those located upstream from the critical depth flume at Peavine Pasture, and the sampling location on the tributary draining the western portion of the Wildcat Slough watershed on the Lykes Bros. Ranch. The inaccessibility of this latter station was due to the washout of a culvert under the access

road roughly ¼ mile from the station. Lykes Bros. Ranch personnel at Brighton were informed of this situation but have not repaired the road. Routine water quality sampling was resumed at that location after water levels fell to the point where the channel downstream of the culvert could be safely crossed.

The results presented here are an analysis and summary of the first full year of routine water quality sampling at the project sites. These analyses are based on water quality data collected over the period of record April 1, 1979 - March 31, 1980. As such, these data reflect an annual wet/dry seasonal cycle highlighted by the effects of Hurricane David and subsequent rainfall events. Water quality data used for this analysis is presented in Appendix II.

For ease of identification comparison, the outfall location from each study site of the Upland Detention/Retention Project has been designated as sampling station 1. With the exception of the SEZ Dairy site, sampling stations are numbered in increasing sequence as one progresses upstream within each study site.

Wildcat Slough

General

Concentrations of water quality parameters exhibit generally stable trends at Stations 1 and 3. Station 2, however, is a different case. With the exception of pH, the physical and chemical parameters addressed in this study show concentration trends at Station 2 that are both greater in absolute value and/or exhibit a wider range of variability than do similar parameters measured at both

Stations 1 and 3. Those parameters measured at Station 1 and 3 are very similar in magnitude and lack of variability.

Physical Parameters

Physical parameters (Figures III-1 through III-4) at Wildcat Slough were relatively stable. pH was generally slightly acidic. Turbidity, color, and conductivity were generally low level. Slight peaks were observed in turbidity levels in the spring of 1979. Conductivity seems to follow seasonal trends, reaching lowest levels during the maximum rainfall months.

Chemical Parameters

Reactive forms of nitrogen (NO_x and NH_4) and phosphorus ($O\text{-}PO_4$) at Station 2 (Figures III-5 and III-7) peaked in April; then concentrations dropped rapidly to lower, fairly stable levels by mid-May. A much smaller peak of these forms of N and P occurred in early August but had dropped to a low stable baseline (at or below detection limits) by the middle of the month. This station was inaccessible for almost two months following the passage of Hurricane David. When routine water quality sampling was resumed in November, reactive forms of both N and P were observed to occur at stable low levels at or below detection limits.

Total N and P concentration levels at Station 2 followed similar trends during April through August as did reactive forms (Figures III-6 and III-8). In fact, the large initial peaks in April are attributed to a large influx of both N

and P reactive species, that is, the majority of the total P and roughly half the total N was not locked up in organic form.

Following the resumption of routine sampling in November, a gradual increase in organic N and a dramatic increase in organic P was observed through March, while inorganic forms remained at low levels or increased only slightly in concentration.

A probable scenario to explain these trends would be one that included heavy fertilization (of both reactive N and P) in April 1979 of that portion of the watershed that is drained by the western drainage ditch where Station 2 is located. Excess nutrient not readily absorbed or adsorbed was leached out or carried from the land surface by rainfall runoff and ultimately past Station 2. This initial pulse probably contributed to a spring/summer phytoplankton bloom that was reflected by the subsequent increase in organic N and P forms, particularly in proportion to reactive forms. The concurrent increase in color and turbidity during this same period would lend support to this hypothesis. Higher organic N and P concentrations in the fall/winter are probably indicative of some vegetation senescence and subsequent export of decomposition products.

At Stations 1 and 3, total N and P concentrations remain fairly low and constant year round. Reactive forms are normally at or below levels of detection and are therefore practically non-existent. Nitrogen and phosphorus are observed to occur predominantly in the organic form.

The similarity of concentrations at Stations 1 and 3 suggest that contributions of flows from the western drainage ditch (Station 2) to the total volume of water leaving Wildcat Slough at C41A (Station 1) is probably minor in comparison with contributions from the remainder of the watershed. Relative high N and P concentrations in the west ditch seem to have little overall effect on water quality at Station 1.

Intra-site Characteristics

Higher mean N and P species concentrations as well as color and wider minimum/maximum ranges at Station 2 are the most outstanding characteristics of the Wildcat Slough site (Figures III-9 through III-12). If one assumes April/May 1979 concentrations of these parameters are an infrequent and unusual occurrence resulting from occasional fertilization practices, and therefore eliminates excessively high values observed during those months from the analysis, the ranges and means drop significantly and more closely resemble concentrations observed at Stations 1 and 3.

It appears that local agricultural practices such as fertilization can have a short-term localized impact. The overall impact (both short and long term) of water quality in the Wildcat Slough watershed, however, appears negligible.

Peavine Pasture

General

The major characteristics of the first year's data at the outfall of the Peavine Pasture site (Station 1) are the elevated levels and erratic tendencies of the concentrations of all the addressed water quality parameters from April through June 1979, followed by less erratic and lower levels after July. Stations 2 and 3, located upstream in the south drainage ditch contain water intermittently following sufficient antecedent rainfall. The intermittent nature of the presence of surface water at these stations obscures any seasonal or short term tendencies and provides conditions that lead to more variation in concentration than might normally be the case. For this reason observations at Station 1 are probably the most indicative of the Peavine site characteristics and will be those referred to for the bulk of this analysis.

Reasons for the dramatic shift in water quality characteristics at this site after June are not known. One can speculate that patterns of agricultural activities in the watershed were altered during June. Whether this is indeed the case has not been verified at this time. Data collected subsequent to March 31, 1980 will help determine whether or not the elevated concentrations and instability are seasonal trends.

The general effect of Hurricane David appears to be limited to a short term decrease in total N and total P as

well as a slight decrease in conductivity and a large drop in color. There was a slight increase in turbidity and no significant change in pH. Decreases in concentration can be attributed to dilution by the large volume of rainfall and runoff. Increased water velocity associated with increased runoff would account for the rise in turbidity. In the case of some of the parameters (conductivity, total N, and total P) almost two months passed before concentrations reached pre-hurricane levels. It isn't clear from this limited one-year data base if the lower concentrations over this two month period are the result of the storm, indicators of a seasonal cycle, or just artifacts of the routine variability that occurs at this site. Additional data may provide an answer to this question.

Physical Parameters

Surface water at Peavine is usually slightly acidic (Figure III-13). With the exception of a spring 1979 spike, conductivity is usually low but varies over the year by a factor of 3 (Figure III-14). Conductivity and pH follow similar minor up and down trends. Lowest levels are observed in the late summer (September - October). A similar spring 1979 spike in turbidity is noted at Station 1, after which levels become low and stable (Figure III-15). A seasonal trend in color levels may exist at Station 1 (Figure III-16); however, one season of data is not adequate to verify this. There appears to be a general trend of decreasing levels

at Stations 2 and 3. Intermittent nature of water at these sites obscures any significance this may have.

Chemical Parameters

Nitrogen and phosphorus (N and P) occur predominantly in organic form. With few exceptions reactive forms (NH_4, NO_x and $O\text{-}PO_4$) occur at or below limits of detection (Figures III-17 and III-19). The small percentage of reactive N and P in relation to total N and P (Figures III-18 and III-20) is indicative that the majority is bound in the form of organic complexes of either planktonic or detrital origin.

Intra-site Comparisons

Mean pH, color, and conductivity appear to increase slightly as one goes downstream to the site outfall (Figures III-21 and III-22). Mean turbidities appear greater at Stations 1 and 2; however, there are a few data points at these stations that reflect abnormally high concentrations. Eliminating these data points would serve to bring means and ranges at Stations 1 and 2 more in line with those observed at Station 3. The significance, if any, of these few aberrant data points is unknown.

There are no apparent trends evident for phosphorus concentrations (Figures III-23). There is, however, a slight trend of decreasing total nitrogen as one progresses downstream (Figure III-24). This would result from a decreasing organic nitrogen load. The causes or significances of this are not known.

Armstrong Slough

General

The Armstrong Slough site reflects the effects of a combination of land use practices. The north fork drains a watershed that is predominantly citrus groves and improved pasture for cattle grazing. During periods of little or no rainfall, water leaving the citrus groves is predominantly groundwater pumped to the surface for irrigation purposes. The south channel watershed reflects characteristics of improved and unimproved pasture used for low density cattle grazing. Some distinct peaks were observed during May through July, but water quality parameters at this site did not exhibit the same degree of erratic tendencies during the April through June period as were evident at the Wildcat and Peavine sites.

It appears that conductivity, color, and total N may exhibit concentration levels that rise or fall in a slight to moderate manner, seemingly in response to seasonal conditions. It will be necessary to collect multiple years data in order to confirm this observation.

Potential seasonal patterns were somewhat obscured by the passage of Hurricane David. Water quality parameters showed responses to the storm that ranged from little, if any, effect (turbidity and pH) to half an order of magnitude (total P). The total P contribution appears to have come predominantly through the north fork tributary channel. A similar peak response in the south channel was not noticed.

This is probably a reflection of the effects of different types of agricultural land use practices in the two portions of the watershed. Recovery time for water quality parameters to return to prehurricane levels ranged from less than two weeks up to two months.

Physical Parameters

At all three stations, pH (Figure III-25) was the most stable physical water quality parameter monitored. In general, pH's remain close to neutral. There was some apparent seasonality with lowest levels noted in August and September.

With the exception of two peaks during the spring of 1979, turbidities are low and stable (Figure III-26).

Conductivity and color (Figures III-27 and III-28) exhibit distinct and reciprocal seasonal trends. That is, as one increases, the other decreases. Conductivity at all stations reached an annual low in September following the passage of Hurricane David. A gradual increase followed. Conductivity levels probably reflect the amount of groundwater pumped for citrus irrigation in the upper portion of the watershed. Lower conductivities in the wet season probably reflect a decrease in groundwater usage as well as a dilution of mineral salts by rainfall and surface runoff.

Color levels peak in the summer and reach lowest levels in spring. These apparently seasonally induced changes vary by as much as a factor of 10 at all three stations.

Chemical Parameters

Reactive nitrogen species (NH_4 + NO_x) are normally at or barely above detection limits (Figure III-29). The majority of the total N is made up of an organically bound component (Figure III-30). No definite seasonal trends are immediately apparent though total N concentrations were observed during November through January at all three stations. Concentrations are of similar magnitude at all three stations.

Phosphorus concentrations at the inflow stations (2 and 3) reflected the effects of different types of land use practices (Figures III-31 and III-32). The large spike of ortho P that came down past Station 2 in September suggests that an area of the watershed (either citrus groves or improved pasture or both) was fertilized prior to the passage of the hurricane. This observation will be confirmed or rejected upon receipt of agricultural practices history from individual landowners. This spike, slightly reduced in magnitude, was simultaneously manifest at Station 1. Interestingly, the peak concentrations at both stations did not occur shortly after the storm but three weeks following it. Concentrations didn't return to prehurricane levels until mid-November. Ortho P is consistently the major component of the total P pool, comprising 50 percent or more of the total most of the time. During the September peak the ortho component is 55-60 percent of the total at both Stations 1 and 2. It is of some importance to note that this peak period of total and ortho P concentrations also coincided with a period of abnormally high flow volumes.

This compounds the impact of this type of event on quality of downstream receiving waters.

Intra-site Comparisons

With the exception of two abnormally high readings at Station 1 and one at Station 3 (in all cases probably due to construction activities in the vicinity), turbidity means and ranges were similar among all three stations (Figure III-33). All mean turbidity values are relatively low (less than 5 JTU's). There are no significant differences in pH among the stations.

Mean conductivity at Station 3 is less than those calculated at Stations 1 and 2. In contrast, mean color (Figure III-34) at Station 3 is greater than those at Stations 1 and 2.

Means and ranges observed for other physical and chemical parameters are normally more similar at Stations 1 and 2 than those observed at Station 3. The relatively low concentrations and similarity of magnitude at all of the stations obscures the significance of what differences may exist. Reactive forms of nitrogen are practically non-existent (Figure III-35) while reactive phosphorus occurs in measurable quantities at all three stations (Figure III-36). The mean concentrations of reactive phosphorus at Stations 1 and 2 are double that calculated at Station 3. This can be attributed to different types and/or degrees of land use practices in the two subwatersheds. The tendency of Station 1 parameter concentrations to more closely resemble those occurring at Station 2 than those at Station 3 suggests that flows and loadings from the northern

tributary channel are greater than and have more impact on overall water quality leaving the Armstrong Slough site than do those from the south tributary channel.

Ash Slough

General

Ash Slough drains a watershed that is characterized by high density cattle grazing operations. Part of the subject study watershed is extensively ditched, originally to aid in irrigation and drainage when the area was used for vegetable farming. The study watershed consists of such a pasture block on the west. The pasture block on the east, though improved and subject to similar agricultural practices, is unditched and is characterized by sheet flow runoff rather than channelized runoff as is the case of the western section.

Both pasture sections drain into a natural low lying marsh area which lies between them. This area has been altered in such a way so as to improve its detention capabilities. It is one of the project study locations for determining the effectiveness of a marsh detention/retention system for evaluation in terms of mitigating quality problems in downstream receiving waters by detaining storm water runoff. This increases contact time with the substrate and allows natural processes time to adsorb and/or absorb some of the nutrient load.

The first year's data show that the influent from the western ditched pasture to the marsh is usually higher in concentrations of N and especially P, than is influent from

the eastern unditched pasture. It follows from the larger size of the western pasture that a larger volume of runoff is contributed from this source. The ditches decrease retention time on the land and therefore decrease contact time with the land surface. One would expect then that the western pasture contributes nutrient loadings to the marsh in much greater quantity and more rapidly than does the eastern pasture.

Nitrogen occurs predominantly in organic form whereas P is predominantly in the inorganic state and therefore readily available for uptake by plankton, periphyton, and epiphytes.

The effects of Hurricane David on water quality parameters ranged from little, if any (pH, color, total N), to slight drops in concentrations (turbidity, conductivity), to sharp increases in concentration (OP, TP). Perhaps the most significant effect of the hurricane on water quality entering or leaving the marsh is the sharp increase in ortho P concentrations. The bulk of the phosphorus at all stations at this site is in the ortho form and as such is available for uptake by vegetation. The increased concentrations, coupled with increased volume due to floodwater runoff, results in the delivery of a significant phosphorus load to downstream receiving waters.

Physical Parameters

High color and turbidity levels (Figures III-37 and III-38) at Station 1 tend to coincide with periods of little

or no flow into or from the impounded marsh area. These parameters also coincide with high organic N and P concentrations. These trends probably reflect increased phytoplankton activity stimulated by reactive nutrient inputs and indefinitely long retention times for impounded marsh waters. Increasing concentrations can probably also be attributed to evaporation of the standing water in the marsh.

Rainfall and associated runoff appear to affect conductivity in an inverse manner by dilution. That is, decreased conductivity levels occur immediately during and following periods of significant rainfall, while higher conductivities are associated with little or no flow. pH (Figure III-40) remains fairly neutral at Stations 1, 2, and 3 and slightly acidic at Station 4.

Chemical Parameters

With the exception of Station 1, organic and reactive forms of nitrogen are of relatively constant magnitude at all stations throughout the year (Figures III-41 and III-42). When no inflow is contributed to the marsh, no outflow from the marsh (Station 1) occurs. Water in the marsh becomes standing and static. During these periods, organic nitrogen concentrations tend to increase. They decrease sharply when inflow to the marsh begins at Stations 2 and 4. Flow from the marsh is assumed to occur concurrently for a substantial rainfall event.

With only a few exceptions, reactive forms of nitrogen (NH_4 + NO_X) remain at or below levels of detection at all

stations year round.

Contribution of nitrogen from the pasture block measured at Station 3 is of the same magnitude as that measured downstream at Station 2. The plugging of the connecting ditch in early February 1980 seemed to have no significant effect on N concentrations during a mid-February runoff-inflow event. A spike of higher organic and inorganic N occurring at Station 3 during April/May 1979 may be reflecting the results of some type of land use practice (fertilization, etc.) or perhaps just concentration of constituents as standing water evaporated. There are no data recorded at Station 2 during this time to determine impacts further downstream. Contribution of N species from the ditched versus unditched pastures appear to be similar in concentrations.

These data seem to suggest that for the most part the Ash Slough marsh is operating as neither a source nor a sink for nitrogen. Reactive forms entering the marsh were at less than detectable levels during most of the year. There may be some initial export of organic N as a first flush of the standing water occurs following an antecedent non-discharge period, but this possibility cannot be verified by these data.

During steady-state flow conditions, P concentrations at each station are of the same magnitude and follow similar minor up and/or down trends (Figures III-43 and III-44). During periods of no inflow into the marsh, standing water at Station 1 shows gradual increasing concentrations of both total and reactive P.

Two sharp peaks in reactive P concentrations occur during the year at Stations 1 and 2. A May 1979 peak occurred following a week of substantial rainfall at the site (U.S.G.S. records). The latter peak, mid-February - early March, coincides with a rainfall event closely monitored at the Ash Slough site by OERC personnel. In the week following each peak, both OP and TP concentrations dropped rapidly.

During Hurricane David, P concentrations exhibited a pulse, though of substantially less magnitude than in the previously noted events. The P concentration decreased gradually thereafter, also in marked contrast to the characteristics of those other events. The difference may be a response to the dilution due to a much larger volume of water or other causes such as seasonal agricultural practices.

Ortho P is the major constituent of the P component at each of the four sampling locations. It accounts for almost 100 percent of the total P component during those times when there is flow into or out of the marsh. During periods of no flow the ortho/total P ratio decreases. This probably reflects the increased residence time in the marsh and the subsequent biological conversion of inorganic P to organic P.

P concentrations in effluent from the ditched west pasture appear to be significantly greater than those in runoff from the unditched east pasture during two of three major inflow periods observed through the year of the study. During the July-October period of almost continuous inflow the concentrations in runoff from both pastures were very similar. The data suggests an

early spring fertilization program may be carried out on the ditched portion of the study area. Runoff from this pasture appears to be a significant contributor of inorganic P to the marsh.

At this time it is impossible to state whether or not the marsh acts as either a source or a sink for P. Once the hydrology base is developed this question will be addressed.

Intra-site Comparisons

The western portion of the Ash Slough marsh watershed is approximately double the size of the eastern portion. Prior to installation of the plug between pasture sections in February 1980, it was approximately four times as large an area. It is to be expected, and field observations confirm, that a much larger volume of flow enters the marsh from the western pasture section than from the eastern one. It is not suprising to find that the impacts are such that water quality parameters at Station 1 consistently reflect concentration levels more similar to those measured at Station 2 (west pasture inflow) than those measured at Station 4 (east pasture inflow). Station 3 reflects the effects of the agricultural practices over the western half of the west pasture. Water quality at Station 2 is a composite of that passing Station 3 and runoff from the intermediate contributing pasture. Absolute measures of both physical and chemical parameters at all stations are of the same orders of magnitude for each (Figures III-45 through III-48). Means of total P, ortho P, and conductivity are about twice as high at

Stations 1 and 2 as at Station 4. Mean conductivity at Station 3 is about twice as high as that at Stations 1 and 2. Mean turbidity at Stations 1 and 4 are roughly twice those at Stations 2 and 3. This appears to be the result of two inordinately high data points at Station 4, one of which (February 1980) probably reflected results of construction activity as the interceptor ditch and small flume were reconstructed. Several inordinately high turbidity values occurred at Station 1 throughout the year. This may be due to the activity of cattle in the vicinity of the sampling locations.

Questions about the effectiveness of this marsh site for polishing water quality are unanswered pending incorporation of hydrological data.

SEZ Dairy

General

Intensive agricultural operations such as feed lots and dairies inevitably produce large amounts of animal wastes. These wastes present a disposal problem that in the past has been solved simply by allowing the material to run through ditches or over the land directly to the nearest watercourse to be carried away. Needless to say, the quality of the receiving waters (especially smaller streams) was seriously degraded. To help mitigate the problem in Okeechobee, the U.S. Soil Conservation Service (SCS) and local dairymen on a cost-sharing basis designed and installed waste stabilization and storage lagoons on several of the dairies in the area. Waste stabilization lagoons have been shown to be

effective in reducing loadings of suspended sediments and BOD (Nordstedt, et al., 1971; Nordstedt and Baldwin, 1975). Few, if any, studies have been conducted to determine the amount of nutrient (N and P) reduction that occurs in these lagoons. One of the objectives of the Upland D/R Project is to try to determine the effectiveness of a typical lagoon system in removing N and P and what magnitude of overall N and P loads leave such a dairy operation to subsequently impact downstream receiving waters. The lagoon system at SEZ Dairy (Appendix I-3) does appear to be reducing nutrient loads substantially from levels that are present in the raw barnwash. Regrettably though, this system does not appear to be operated entirely according to the established design and operational criteria. This deviation occurs in two major areas. The first is the lack of maintenance of the seepage ditch irrigation system. This has been allowed to deteriorate to the point that discharge from the second (holding) lagoon does not run out over the land surface to seep into the pasture (providing nutrients and irrigation water) but instead runs along the outer edge of the lagoon and directly into the drainage ditch on the north perimeter of the property and thence directly out into Wolf Creek.

The second deviation from operational criteria is in the manner of operation of the holding lagoon. Originally designed to act as a water storage reservoir filled by excess from the settling lagoon, the holding lagoon in theory is drained to the ditch irrigation system shortly before it is

refilled by the excess from the settling lagoon. In the interim the waste water held in the holding lagoon continues to stabilize, decreasing BOD, suspended solids, and hopefully, nutrients.

At SEZ Dairy, the holding lagoon is operated as a flow-through system. It is rarely, if ever, drained. Discharge occurs only during pumping operations from the settling to the holding lagoon. The design of the holding lagoon is such that it is suspected that there is little mixing occurring between settling lagoon effluent and holding lagoon standing waters. It is probable that a significant portion of settling lagoon discharge passes directly through and out of the holding lagoon without having been detained for any period of time. This manner of operation probably reduces the efficiency of this lagoon system to remove somewhat less nutrient load than it might be able to under optimal operating conditions.

Wastewater discharge from the barn (barnwash) consistently varied in concentration levels of the various water quality parameters addressed in this study. This range and frequency of variability was not observed at any other station throughout the dairy. This variability obviously reflects the state of activity in the barn at any one time (number of cattle, length of holding time, flushing frequency, operation of sprinkler system, amount of feeding, etc., etc.).

In a series of mini-studies on barnwash effluent performed by OERC staff, it was found that within a given 6 to 8 hour milking cycle, variation in concentration of the study param-

eters ranged from as low as 5 percent (pH) all the way to 25,000 percent (turbidity). Mean concentrations of each parameter calculated over a given milking cycle were in close agreement with mean concentrations calculated for milking cycles monitored on other dates (Table III-1). Given such potential for variability in both water volume and parameter concentrations over such a short time span, and since there is no reliable method of continuous measurement nor integration of values, calculation of typical nutrient contributions from the barn operation has to be approached in some comparatively simplistic manner. In future analyses of these data it will be assumed that the mean concentration of each parameter as determined these and future mini-studies will be representative of the long-term steady-state condition. Comparing the mean parameter concentrations as determined by the mini-studies, pH, varying by only 2.7 percent between minimum and maximum, is the most stable of the monitored parameters while total P, which differs 160 percent between the minimum and maximum, exhibits the widest range of variability. Given the relative consistency of these means, the assumption will be made that they reflect with some degree of confidence the long term values of these parameters at this station. When one compares the mean concentration values presented in Table III-1 with the mean values calculated for these parameters measured at this station for the study subject period (April 1, 1979 - March 31, 1980), one sees that they are in close agreement in terms of order of magnitude and indeed the means of the long

TABLE III-1

SEZ Dairy Barnwash Studies
Means and Ranges of Water Quality Parameters

Date	n		Conductance	Color	pH	Turbidity	NO_X + NH_4	Total N	Ortho P	Total P
06/21/79	8	$\bar{x}$ range range % variation	1524 1130-1880 166.4	260 125-510 408.0	8.00 7.78-8.20 105.4	106.3 62-165 266.1	47.44 21.30-76.22 357.8	111.20 75.34-167.31 222.4	5.711 2.936-8.804 299.9	16.221 6.873-30.546 444.4
07/13/79	13	$\bar{x}$ range range % variation	1599 863-2910 337.2	336 64-684 1068.8	7.81 7.54-8.18 108.5	117 36-155 430.6	56.90 7.60-144.69 1903.8	149.58 27.06-301.89 1115.6	5.059 1.343-10.050 748.3	22.292 3.593-43.521 1211.3
08/03/79	22	$\bar{x}$ range range % variation	1528 1015-2400 236.5	255 102-402 394.1	7.88 7.30-8.56 117.3	157 46-650 14239.1	33.47 6.03-96.47 1599.8	148.12 28.83-398.87 1383.5	4.145 2.053-8.861 431.6	26.363 5.887-98.674 1676.1
10/30/79	24	$\bar{x}$ range range % variation	1694 231-4210 1822.5	372 78-2160 2769.2	7.79 7.19-8.41 117.0	151 4.8-1200 25000	34.29 1.83-124.33 6794.0	190.32 26.70-841.89 3153.1	6.213 1.521-17.655 1160.7	42.22 4.474-243.046 5432.4
Variation of range of $\bar{x}$ values			11.2	45.9	2.7	47.7	70.0	71.2	49.9	160.3
04/01/79 through 03/31/80	all	$\bar{x}$ range	1565 231-4450	320 64-2160	7.92 7.19-8.89	136.6 4.8-1200	34.15 1.83-144.69	154.58 9.01-841.89	5.050 1.077-17.655	27.870 0.733-243.046

Key: n = number of samples
$\bar{x}$ = mean of n samples

term routine biweekly samples fall within the range of means for respective parameters observed during the mini-studies. A more sophisticated statistical analysis and actual loading computations will be reserved for the project final report.

Effects, if any, of Hurricane David on water quality at any station throughout the dairy were negligible. No distinct trends either seasonal or otherwise were evident throughout the year.

Physical Parameters

The slight variability in pH within and among stations is probably reflective of normal dairy operations (i.e., lagoon pumping and discharge), rainfall, and natural groundwater seepage. pH is the most stable of all parameters monitored at this site (Figure III-49). The stations that exhibited the widest ranges were 1 and 5. This is not surprising as these stations downstream from the waste stabilization lagoon operation are subject to the widest ranges of flow variation and sources. Barnwash pH was generally slightly basic. Most stable pH's were observed in the waste stabilization lagoons. The settling lagoon was usually neutral while the holding lagoon remained slightly basic.

The rise and fall of pH's at Stations 5 and 1 (from neutral to slightly basic) may be a direct response to periods of antecedent pumping and discharge from the lagoon system. Periodicity and magnitude of pH's at the site outfall resemble those observed in the north perimeter ditch.

Turbidity (Figure III-50) is highest and exhibits the

greatest variability and widest range in concentrations in the barnwash. There is a definite trend for absolute values and variability to decrease as one compares concentrations through the lagoon system. Turbidity in the perimeter ditches and at the site outfall are of similar magnitude. Rise and fall of turbidity levels at Stations 5 and 1 tend to follow pH patterns at those stations, again probably as a result of pumping and the periodic influx of water discharged from the holding lagoon.

Conductivity (Figure III-51) follows similar trends as turbidity with the exception that levels are higher in the settling lagoon (Station 3) than in the barnwash (Station 2). There is a decrease in magnitudes in the holding lagoon and north ditch (Stations 4 and 5). At Station 5 conductivity peaks coincide in period with turbidity peaks. Low values are probably normal ambient background levels (surface runoff/ groundwater seepage) while higher concentrations probably reflect pumping discharge from the wastewater holding lagoon.

Less variability but generally higher conductivity levels were noted in the south ditch (Station 6) than those observed at Station 5. Less variability might be expected since this station reflects only surface water runoff and groundwater seepage.

Effluent quality at the Wolf Creek outfall (Station 1) exhibits similar baseline levels as those observed at Station 5 but the magnitude of the peak concentrations are less, perhaps the result of dilution as one goes downstream.

Color (Figure III-52) is relatively constant throughout the system. More variation does appear to occur as one progresses toward the site outfall. Slight increases in color at Stations 1, 5, and 6 may correlate slightly with increased conductivity at these stations.

Chemical Parameters

In general, reduction of total N from the barnwash to the discharge point at Wolf Creek (Station 1) is one order of magnitude (Figure III-54). The reduction of reactive forms of N (NO_X + NH_4) is also about one order of magnitude but, since these forms occur in lower concentrations in the barnwash (Station 2) and at the site outfall (Figure III-53), this becomes less significant in absolute terms.

Comparing mean concentrations, the apparent reduction of total N from barnwash to outfall is over 90 percent and the apparent reduction of reactive forms of N is over 90 percent. Based on these means, the reactive N/total N ratio at the outfall is 21.3% and in the barnwash is 17.8%. On the surface, this indicates that in this system there is a net tendency for conversion from organic forms to ammonia and/or NO_X. In reality, two processes are occurring. The first is conversion of organic loads in the barnwash to ammonia under the anaerobic conditions that prevail in the waste stabilization lagoons. The majority of this conversion occurs in the first of the two. The second process is an update of some of the NH_4 and NO_X and a subsequent conversion to organic N by vegetation in the marsh and along the perimeter ditches through which lagoon discharge

flows.

Under anaerobic conditions that predominate in the first lagoon, there is a net drop of mean total N of 26 percent; however, of that that remains, there is a net increase of ammonia of 99 percent. That is, though mean total N concentrations are reduced by one quarter in the first anaerobic lagoon, mean ammonia concentrations are double that of the barnwash. Mean reactive N is 58 percent of the total N component.

Anaerobic conditions also prevail in the second stage lagoon; therefore, it is not suprising that the mean reactive N to mean total N ratio remains similar to that observed in the first lagoon. There is a net reduction of N, however, that does occur with mean concentrations of both reactive and total N components down 58 percent from that measured in the first lagoon. Nitrogen in discharge from the second lagoon is either oxidized or taken up by vegetation. Concentrations of mean total N and mean reactive N are reduced significantly between the second lagoon and the north ditch station. In addition, the reactive N/total N ratio is almost half that observed in the lagoons. Mean ammonia concentration in the north ditch is only 13.5 percent of its level in the second lagoon (a reduction of 640 percent) while mean total N concentration in the north ditch is 41 percent of that observed in the second lagoon (a 143 percent reduction). There is a net increase in percent organic N forms as NH_4 and NO_X are utilized by vegetation or lost to the atmosphere as a result of denitrification.

Mean total N concentration in the south ditch is slightly less (1.6 ppm) than concentrations in the north ditch. The ammonia component is 28 percent greater however. Volume of water at the site outfall contributed by the south perimeter ditch is comparatively less than that from the north perimeter ditch. In any case, mean total N concentrations as well as reactive N forms are roughly 36 percent and 53 percent less than those parameters measured in the north ditch. A further reduction in the reactive N/total N ratio between the north ditch and south ditch stations (28.5 percent and 26.9 percent respectively) and the site outfall (21.3 percent) is indicative of an additional relative increase in the amount of organic N in relation to total N measured in the system.

In absolute terms total N concentrations in the holding lagoon are half those observed in the settling lagoon throughout the year. Total N concentrations in the settling lagoon more closely resemble those of the raw barnwash but lack the extremes in peaks and valleys as is typical of observations of barnwash N concentrations. Total N concentration levels in the north ditch are normally less than 10 ppm - however, probably as a result of periodic discharge from the holding lagoon, they will occasionally peak at levels similar to those measured at Station 4 (40-50 ppm), then will fall off rapidly to baseline levels. Nitrogen concentrations in the south ditch, unaffected by lagoon discharge, remain constantly below 10 ppm year round with the exception of a July/August period when concentrations briefly reach an order of magnitude higher.

Concentrations at the Wolf Creek outfall were less erratic than those measured in the north perimeter ditch though both exhibited similar rising and falling trends. Though periodicity between the two stations is similar, peak concentrations of total and reactive N forms at the site outfall were generally of lower magnitude.

The reduction of mean total P concentrations from the barnwash effluent to the site outfall is, like total N, about one order of magnitude (Figure III-56). The major portion of this reduction occurs in the second waste stabilization lagoon as mean concentration of total P at Station 4 is reduced to a level 45 percent of that measured in the first lagoon. This also represents the greatest reduction in absolute terms as mean total P concentrations decline from 25 ppm to 11.2 ppm. Additional decreases of 37 percent in mean absolute concentration occur between the second lagoon and the monitoring station (5) in the north perimeter ditch.

The perimeter ditch stations (5 and 6) exhibit similar ranges and mean total P concentrations. Though only a drop of 5 to 6 ppm in absolute terms, the percent decrease of total P concentrations from Stations 5 and 6 to the site outfall is a comparatively large 74 percent. Mean total P concentrations at the outfall are 6.6 percent of those in the barnwash. This represents an apparent decrease in total P of 93.4 percent through the dairy waste treatment system.

Mean ortho P exhibits a 78.8 percent reduction from the barnwash to the site outfall (Figure III-55). An initial

reduction of 36 percent occurs in the first lagoon but mean ortho P concentrations double in the second lagoon, increasing from 3.2 ppm to 6.5 ppm. While the range of maximum-minimum ortho P concentrations in the second lagoon is less than that of the barnwash, the mean concentration is actually greater than the mean concentration measured in the barnwash. Mean ortho P concentrations decrease by about half between the second lagoon and Station 5 in the north perimeter ditch. The mean and range of ortho P concentrations are greater in the south perimeter ditch than that observed at Station 5.

The most significant reduction in mean ortho P concentration occurs between the perimeter ditch stations (5 and 6) and the site outfall (Station 1) (68 percent and 77 percent for Stations 5 and 6 respectively).

Absolute concentrations of ortho P in the settling lagoon exhibit the greatest variability ranging from less than detectable limits (<0.002 ppm) to greater than 10 ppm. Ortho P concentrations in the holding lagoon are less variable than those in the first, never falling below detection limits. The magnitude of peaks and valleys is reduced from that observed at Station 3.

Absolute ortho P concentrations measured in the settling lagoon rarely strike a middle ground. Instead, an all or none phenomenon seems to occur here. Ortho P, when present, occurs at concentrations generally greater than in the holding lagoon. Variation of total P and ortho P tends to decrease at all stations after October 1979, but no seasonal trends appear to be

evident.

Comparing ortho P/total P ratios one concludes that the majority of the total P in the barnwash and the settling lagoon occurs in organic form. Ortho P levels in the settling lagoon exhibit extreme erratic tendencies. When ortho P is present in measurable quantities it is usually about 40 to 50 percent of the total P. Ortho P occurs below detection limits frequently enough to reduce the mean ortho P/total P ratio of the settling lagoon to 13.6 percent. In any case, the organic portion of the total P load is the major component.

A radical change is noted in the holding lagoon. A substantial reduction of organic P occurs as almost 58 percent of the total component is in the inorganic form. This is a manifestation of a drop in total P concentrations while inorganic P concentrations are only slightly lower than concentrations measured at Station 3 when ortho P was present.

In the perimeter ditches, ortho and organic P concentrations are generally less than those in the holding lagoon. The ortho P component ranges from 4 to 98 percent of the total P component in the north ditch, averaging 60.2 percent. In the south ditch inorganic P averages 71 percent of the total component and at times is practically 100 percent.

Organic P remains a minor constituent of the total P component at the site outfall. Absolute concentrations of inorganic P continue to decrease. The absence of a simultaneous increase in organic P concentrations in the water column may

indicate that uptake by rooted vegetation or loss to sediment is occurring.

Intra-site Comparisons

In comparing concentrations of water quality parameters at each station one notices a general tendency, as one goes through the treatment system, for reduction of both absolute means and ranges. There are two notable exceptions to this trend. The first, pH, remains relatively stable throughout the system (Figure III-57). Not unexpectedly the maximum/minimum range is less in the lagoons than at the other stations where differences in daily ambient conditions have more impact. Color (Figure III-58) is the second exception. Mean color levels remain low and stable at all stations. With the exception of the barnwash, the range of color values is similar among stations.

Mean concentrations of water quality parameters are probably fairly representative of long term steady-state conditions in the barnwash and the two lagoons. There is some question as to the validity of drawing conclusions based on mean parameter concentrations at the two perimeter ditch stations and the site outfall station at Wolf Creek. While mean concentrations of water quality constituents are substantially lower at these stations there are times when outside forces can alter concentration levels significantly. These phenomena occur periodically not on an entirely random basis. Practices such as release from waste lagoons, fertilization, mowing, livestock manipulation and other types of agricultural opera-

tions all have impact on the non-lagoon stations. Rainfall (seasonal in nature) can have impact, the most significant of which comes from lagoon discharge which may be increased or decreased in frequency because the lagoons become filled more or less frequently. Concentrations of water quality constituents at these stations may be low during periods of low flow and high during periods of high flow. If this is the case, periods of higher flow may have a tremendous impact on downstream receiving waters, one that could not be predicted based on mean concentration and mean discharge volumes alone. The OERC staff is in the process of addressing the question of periodic pulses of low quality discharge and will attempt to evaluate these phenomena in the project final report.

In summation, the SCS-designed waste stabilization lagoons, even when operated in a manner less desirable than the design criteria, are effective in reducing nutrient concentrations.

Intersite Comparisons

One of the questions that the Upland D/R Project is designed to try to answer is what effects different types of use practices have on quality of rainfall runoff leaving agricultural areas. The approach being employed to arrive at the answer is to compute loadings of N and P that leave each site, then, given watershed dimensions, backcalculate to determine loadings on a per unit area basis. This will be done upon completion of the hydrological data base. In the interim, comparisons can be made only on the basis of concentrations in water quality parameters in the effluent leaving each study site. Using mean concentrations and ranges plotted in Figures III-61 through III-64, two main

points become immediately apparent. The first is that more intensive land use practices (dairy operations and high density cattle grazing) result in higher mean concentrations of N and P than do less intensive land use practices. The second is that the ranges (and hence the variability) of minimum and maximum N and P concentrations measured at any site are greater at these intensive land use sites than at those that are less intensively used. These are not surprising observations in that the more man-induced disturbances at a site, the more the potential exists for introducing variation and increased nutrient loads.

The greatest impact on water quality probably occurs at the SEZ Dairy and Ash Slough sites. This impact would be caused by the comparatively high concentrations of ortho P that occur at these sites. Discharge from both Ash Slough and SEZ Dairy is intermittent and variable in quality and quantity. As described earlier in this chapter, two distinct peaks in ortho P concentrations can be correlated with discrete rainfall/runoff events at Ash Slough. This type of phenomenon would indicate that water quality is worst at least desirable times (periods of increased inflow and discharge) thus compounding the impact on downstream receiving waters.

Mean conductivity at SEZ Dairy is higher than at the other sites, probably as a manifestation of continuous use of groundwater in the dairy barn operation. Groundwater samples collected on the SEZ Dairy have had conductivity levels significantly greater than groundwater samples collected at the other study sites. Color and pH show no distinct trends or patterns. With the exception of SEZ Dairy there are no significant differences in mean turbidity among

the sites. A large range in turbidity values at Armstrong Slough can be attributed to data collected during construction activities on the culverts and access road to S65A.

II. Storm Event Sampling Program

In December 1979, a "storm event" sampling program was proposed to and accepted by the KRVCC (Goldstein, et al., 1980). This program is based on the following major points:

(1) "Storm event" is defined as a distinct event when discharge occurs from the outfall of a study area as a result of antecedent rainfall and runoff. This definition is based on preliminary 1979 hydrological data that indicates that there are distinct periods when little or no discharge occurs at outfalls from these sites. "Wet" periods where discharge does occur are interspersed among these.

(2) Due to time, logistics, and equipment limitations, storm event monitoring will be restricted to the three sites closest to the OERC, namely: Wildcat and Ash Sloughs and the SEZ Dairy. These sites represent a spectrum of land management uses. Wildcat Slough is representative of native rangeland and some improved pasture. Ash Slough represents moderately heavy use improved pasture and implementation of D/R methodology, and SEZ Dairy is representative of intense use of land for cattle holding and grazing and SCS-designed waste treatment lagoon methodology.

Periodically, there have been some innate problems in the operation of the portable automatic samplers purchased for this phase of the project. These equipment problems have for the time being been resolved and these instruments are operational. Installation of permanent automatic samplers was completed in April 1980 subsequent to installation of electrical power to the Ash Slough and SEZ Dairy sites.

Using the refrigerated automatic samplers, the OERC staff is currently monitoring water quality at both the Ash Slough and SEZ Dairy outfalls on a routine daily basis and more frequently during storm events.

Results of the 1980 storm event monitoring program will be analyzed and discussed in the project final report.

III. Rainwater Collection and Analysis

Collection of weekly composite rainwater samples at S65D began in mid-September 1979. Routine N and P analyses are performed on these samples at the OERC laboratory. The estimates of rainwater quality provided by these data and other rainfall quality data collected by the District will be utilized as baseline information for evaluating the surface water quality at the various study sites.

IV. Soil Moisture Sample Collection and Analysis

By agreement between OERC and KRVCC staff, four soil moisture sampling stations were located at four of the five Upland D/R Project study sites. Due to the similarity of use and proximity of sites, it was felt that one sampling station would be sufficient at the Armstrong/Peavine location. Soil moisture sampling devices

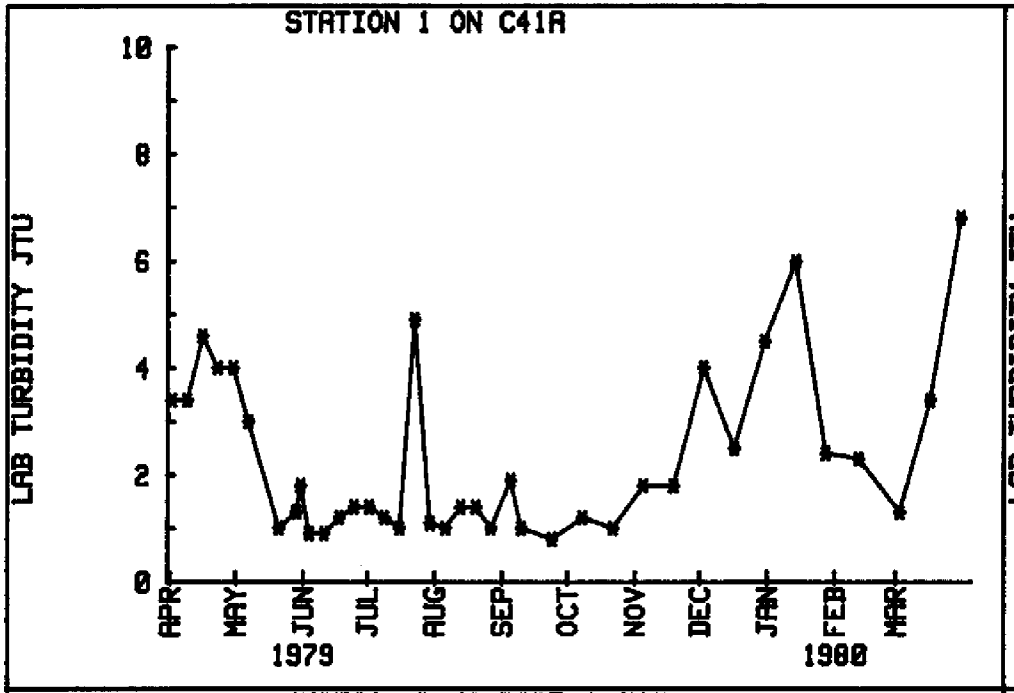
using porous Teflon rather than ceramic tips were purchased and installed. Teflon devices were chosen over ceramic in that there was less tendency for nutrients (particularly P) to be adsorbed on the surface.

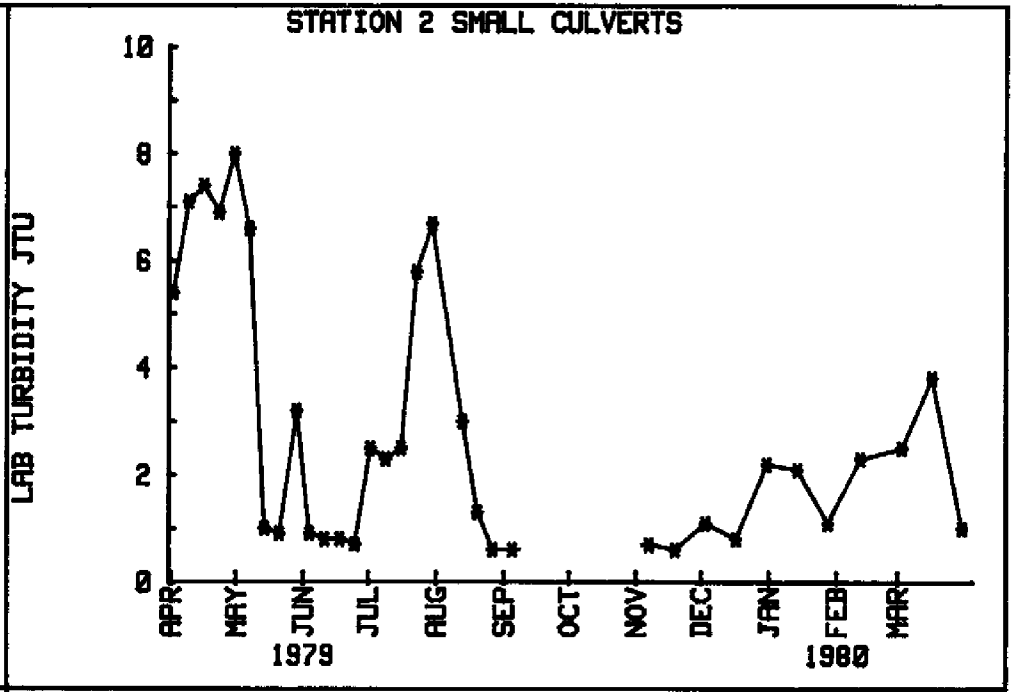
OERC staff has agreed to gather samples from these devices on a minimum of three separate dates interspersed throughout the project period. One series of soil moisture samples are to be collected during each of the upcoming summer, fall, and winter seasons. Analysis of data will be reserved for the final project report.

V. Groundwater Quality Samples and Analysis

A routine groundwater sample collection program has been under way since February 1980 following the installation of nine wells at the five study sites by USGS personnel out of Orlando.

Samples, collected monthly, are currently being analyzed for nitrogen and phosphorus species as well as chlorides and total dissolved solids. Results of these analyses will be incorporated into the project final report.





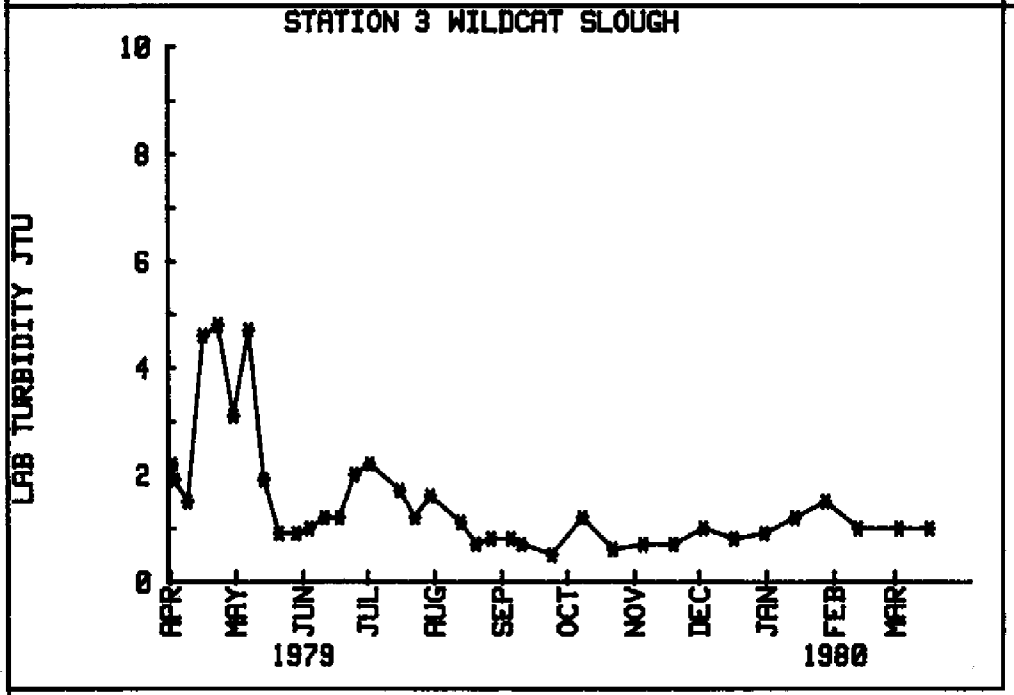


Figure III-1 LAB TURBIDITY FOR WILDCAT SLOUGH

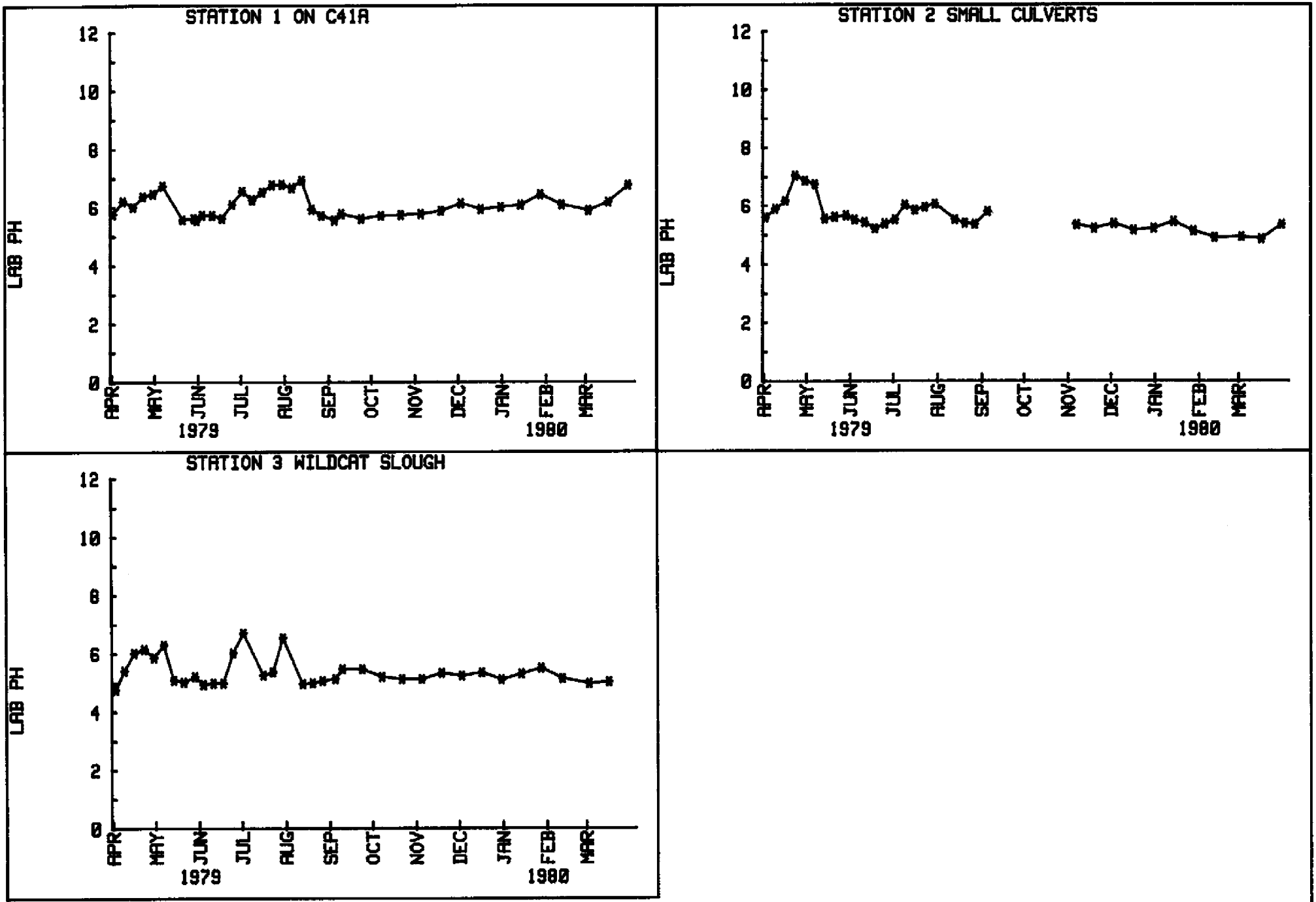


Figure III-2 LAB PH FOR WILDCAT SLOUGH

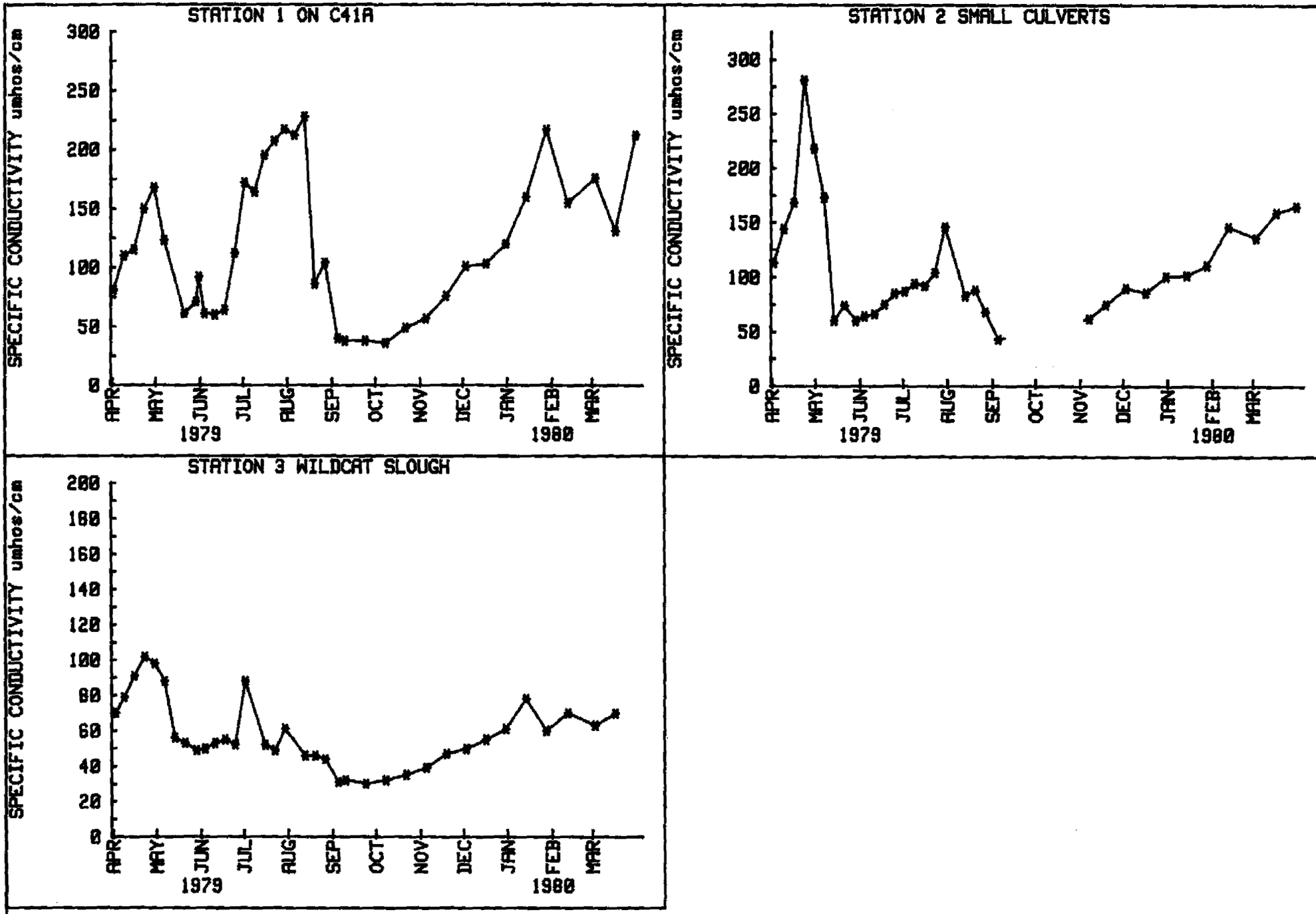


Figure III-3 LAB CONDUCTIVITY FOR WILDCAT SLOUGH

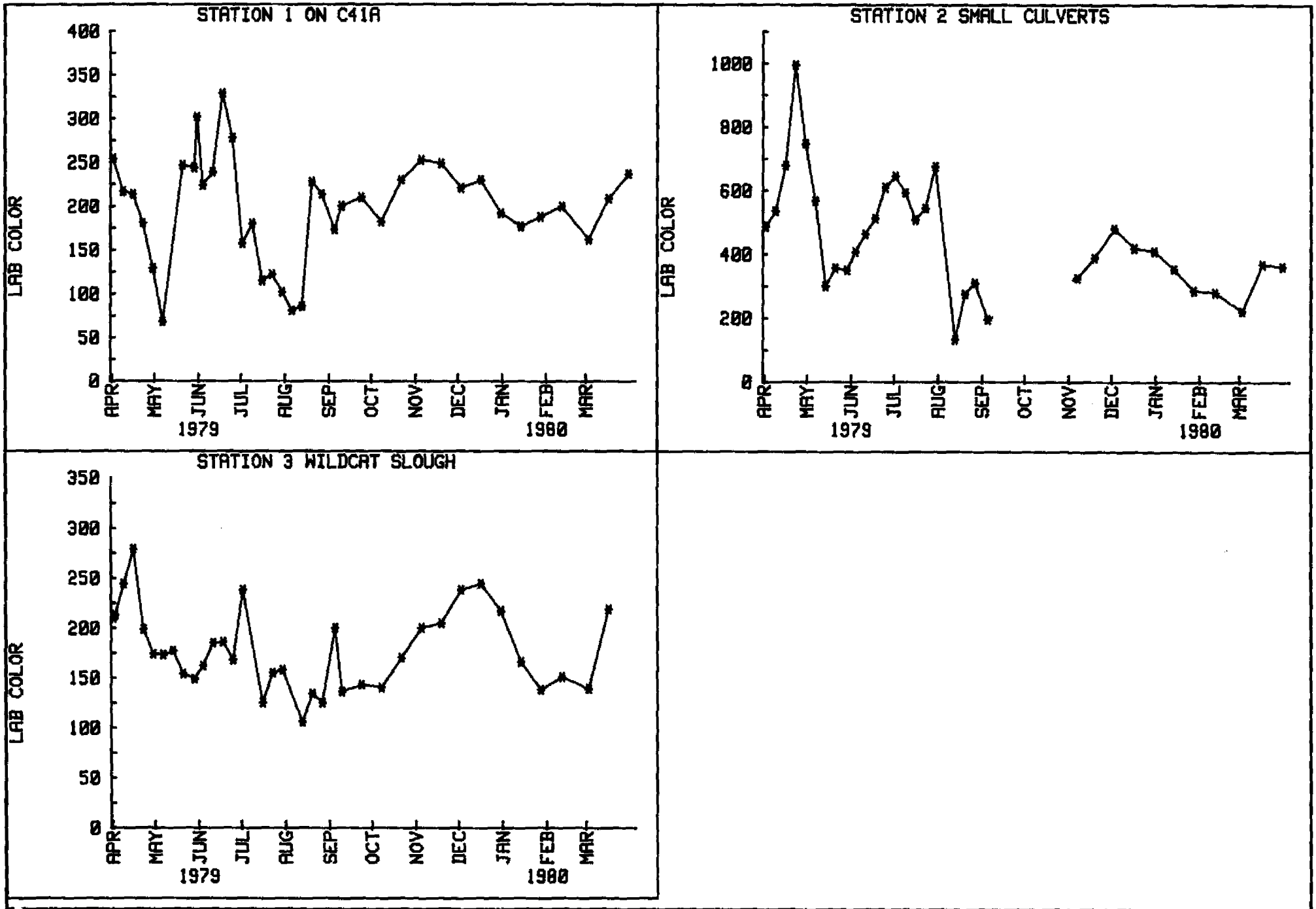


Figure III-4 LAB COLOR FOR WILDCAT SLOUGH

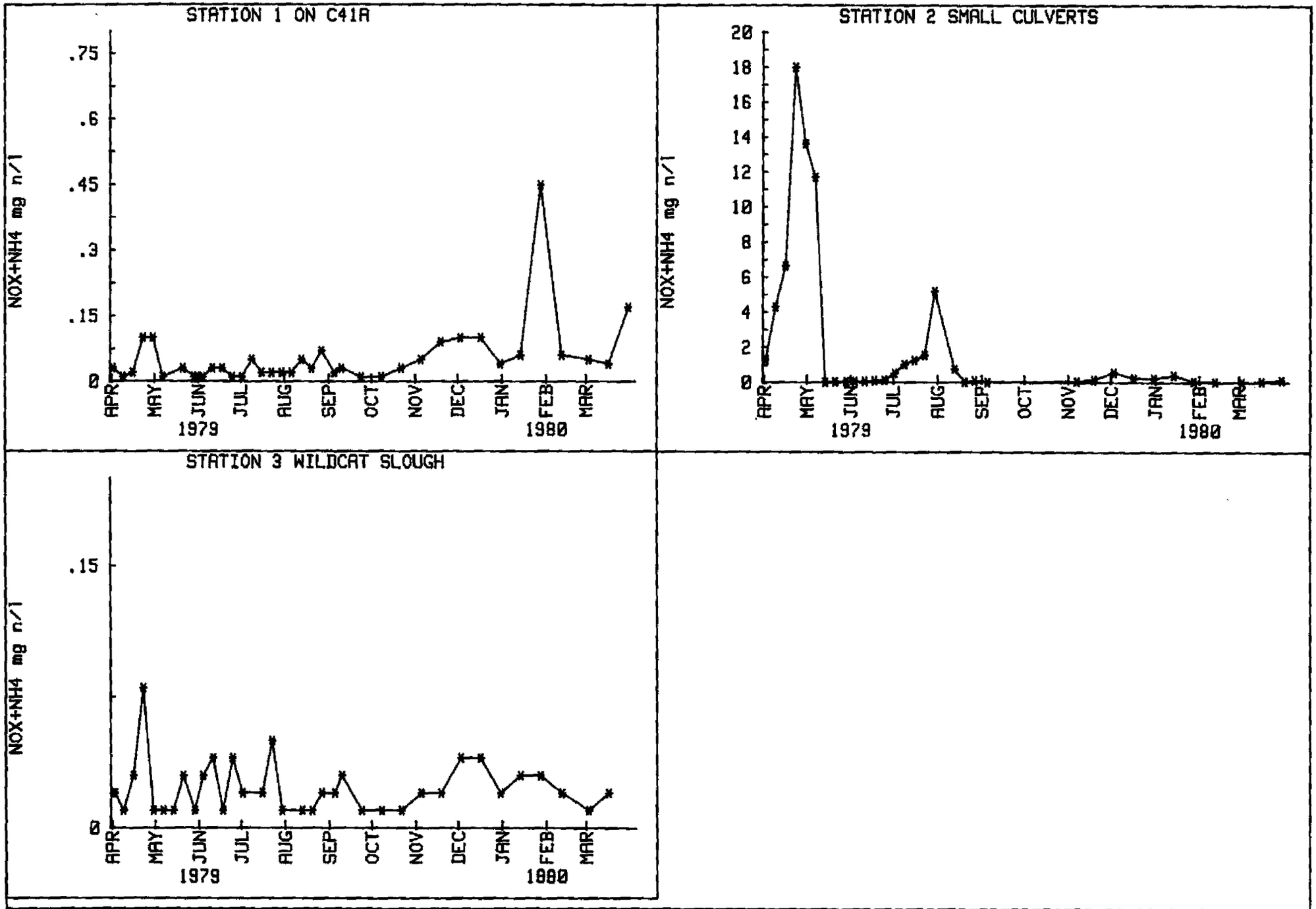


Figure III-5 NOX+NH4 FOR WILDCAT SLOUGH

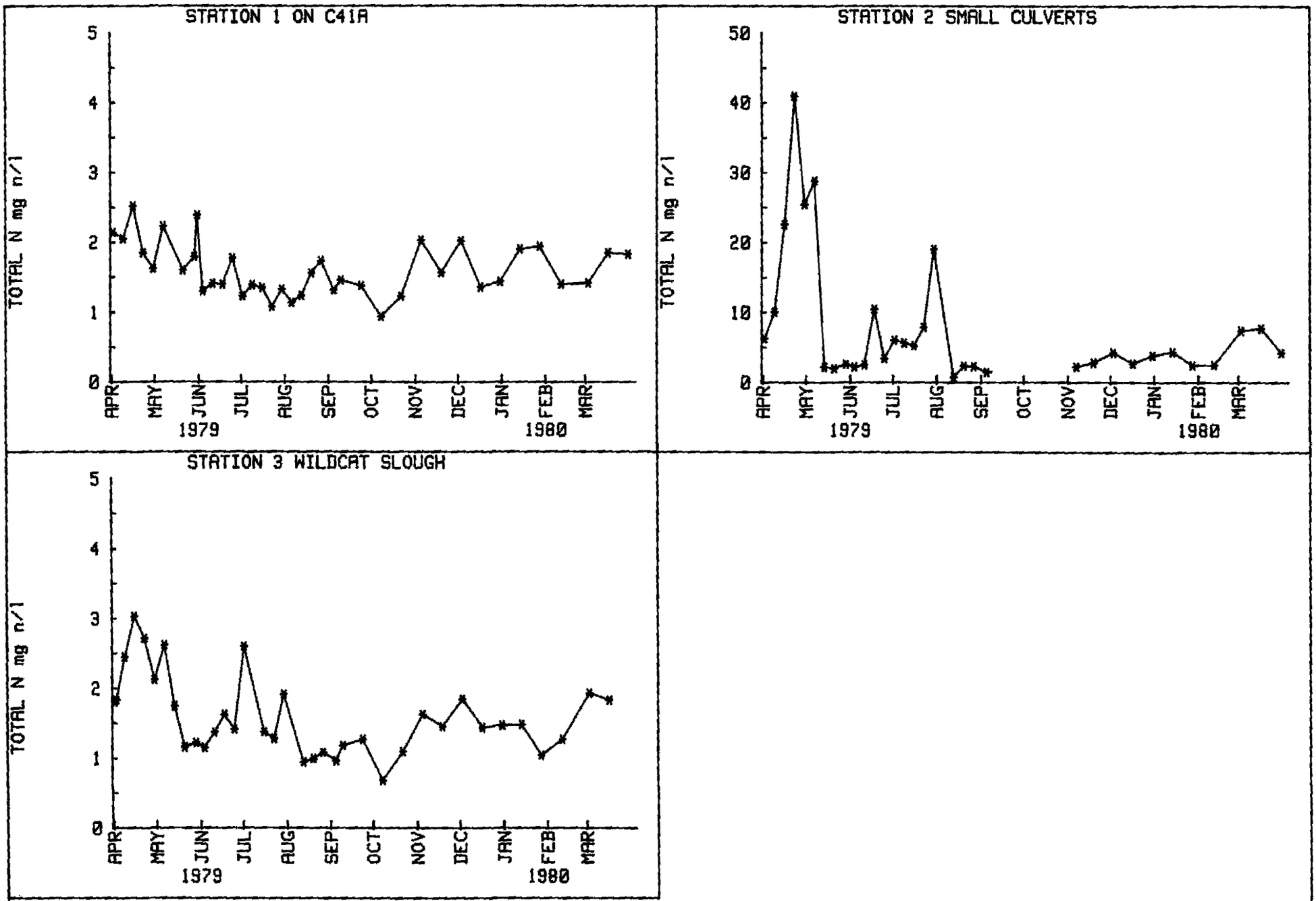


Figure III-6 TOTAL NITROGEN FOR WILDCAT SLOUGH

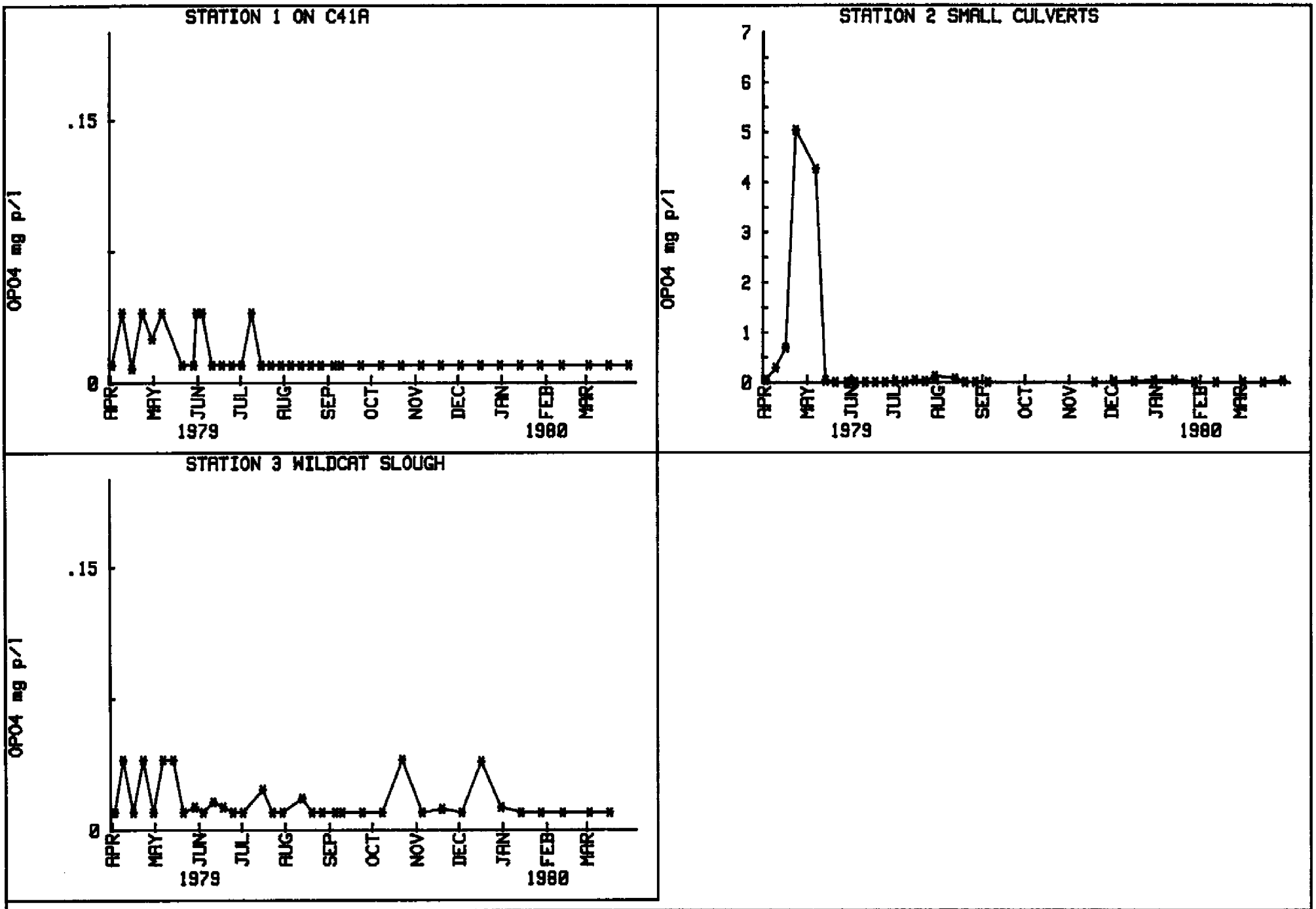


Figure III-7 ORTHO PHOSPHORUS FOR WILDCAT SLOUGH

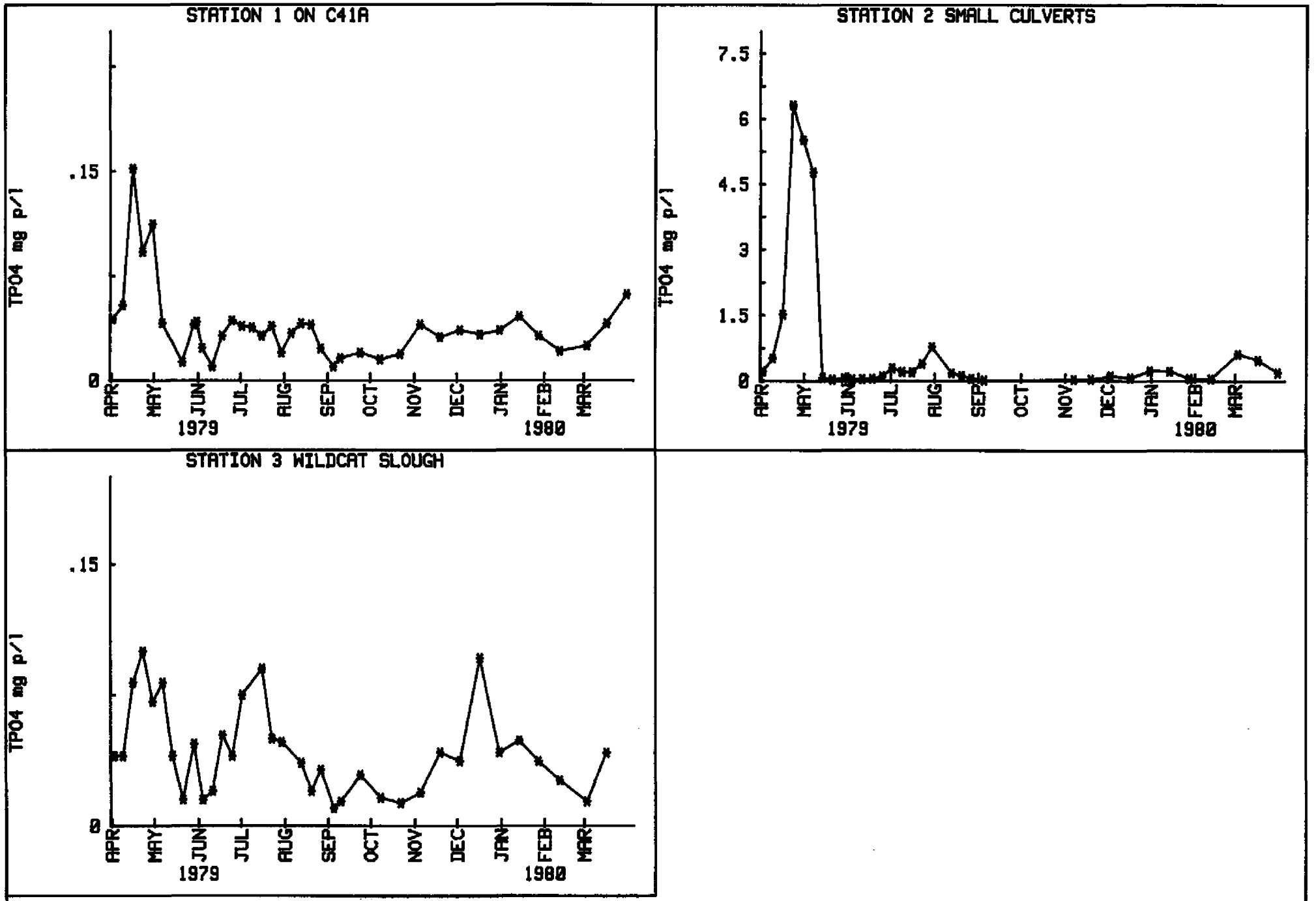


Figure III-8 TOTAL PHOSPHORUS FOR WILDCAT SLOUGH

Figure III-9

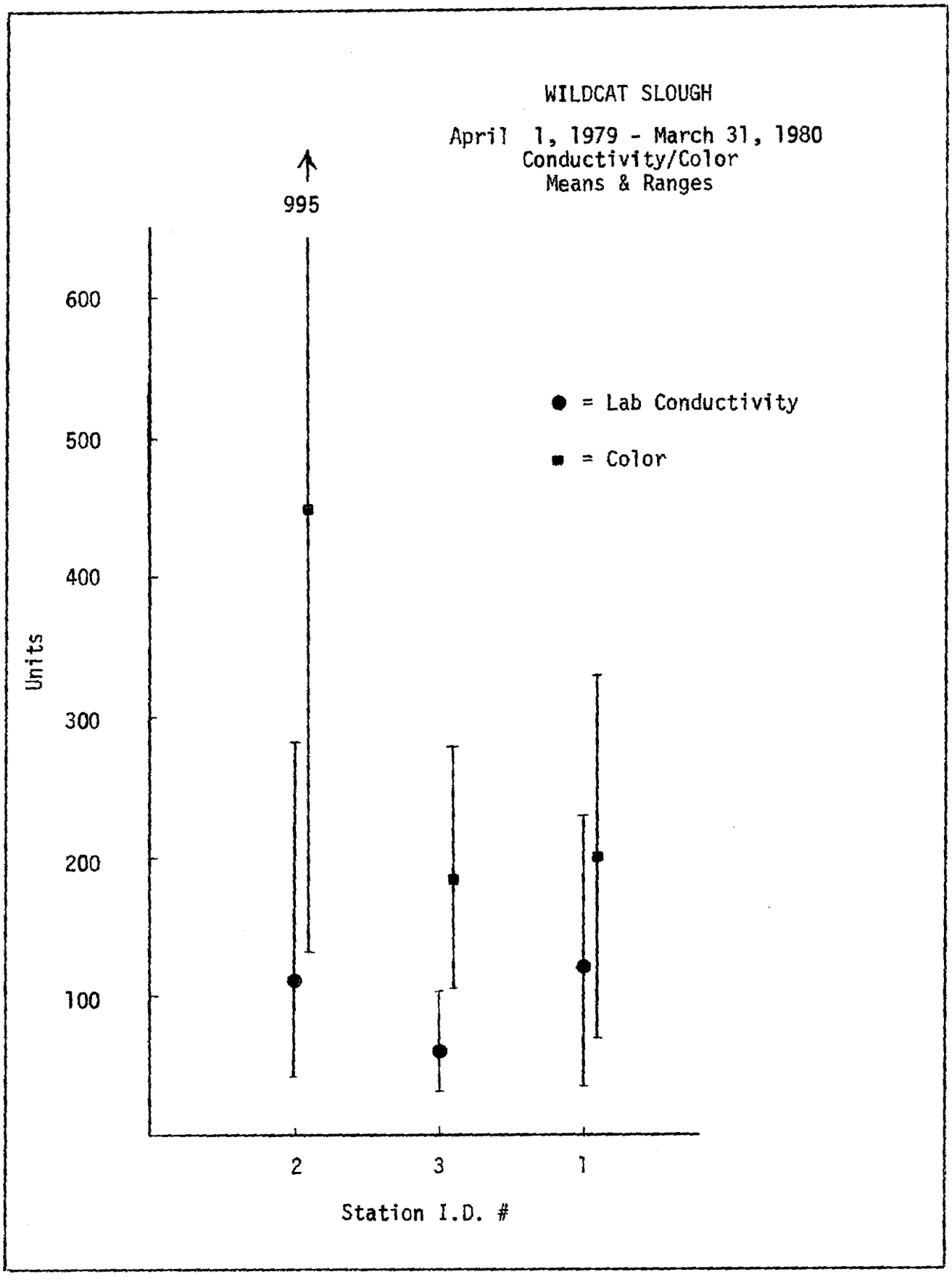

WILDCAT SLOUGH
April 1, 1979 - March 31, 1980
Conductivity/Color
Means & Ranges
995
600
500
400
300
200
100
Units
● = Lab Conductivity
■ = Color
2
3
1
Station I.D. #

Figure III-10

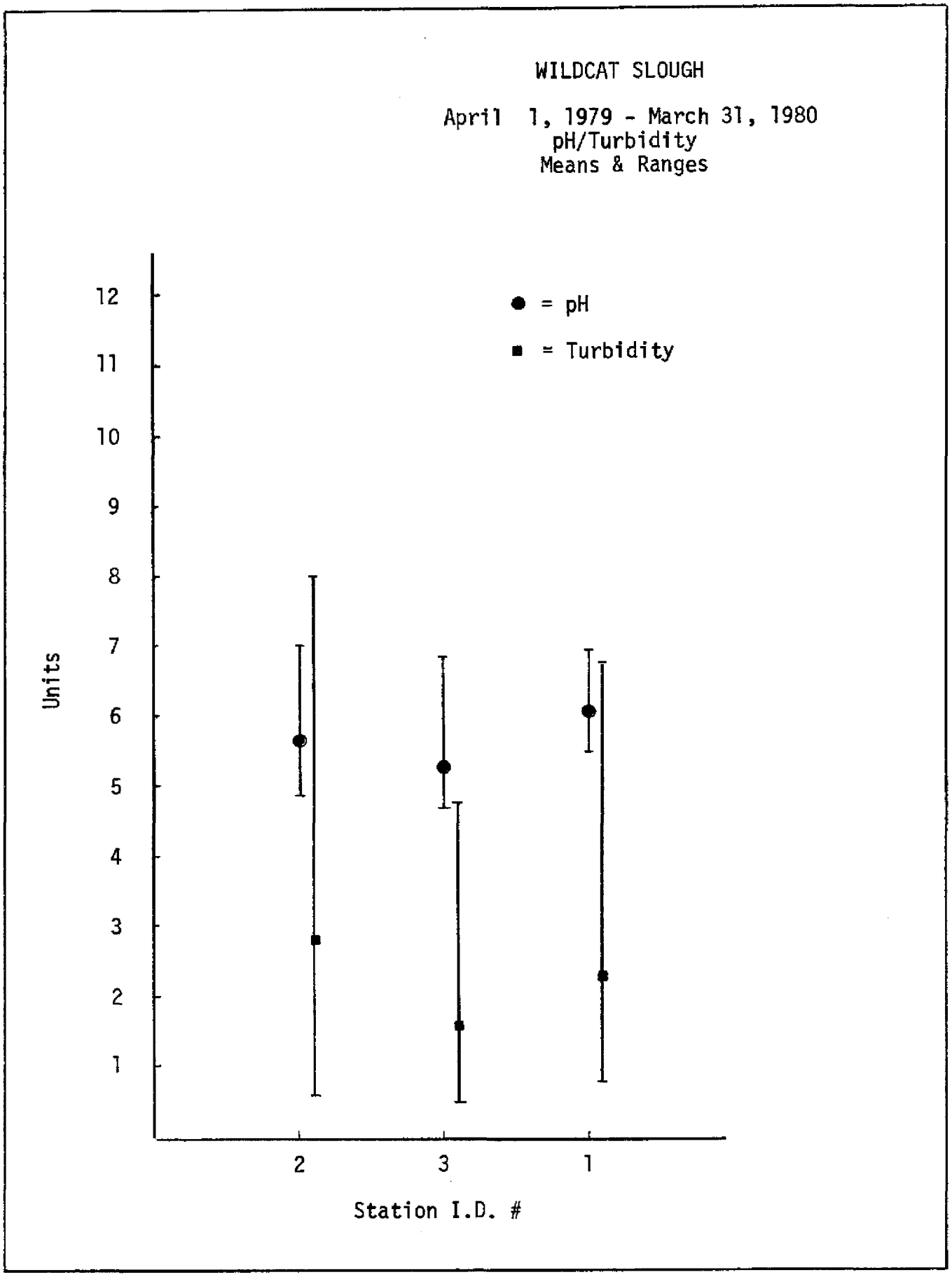


Figure III-11

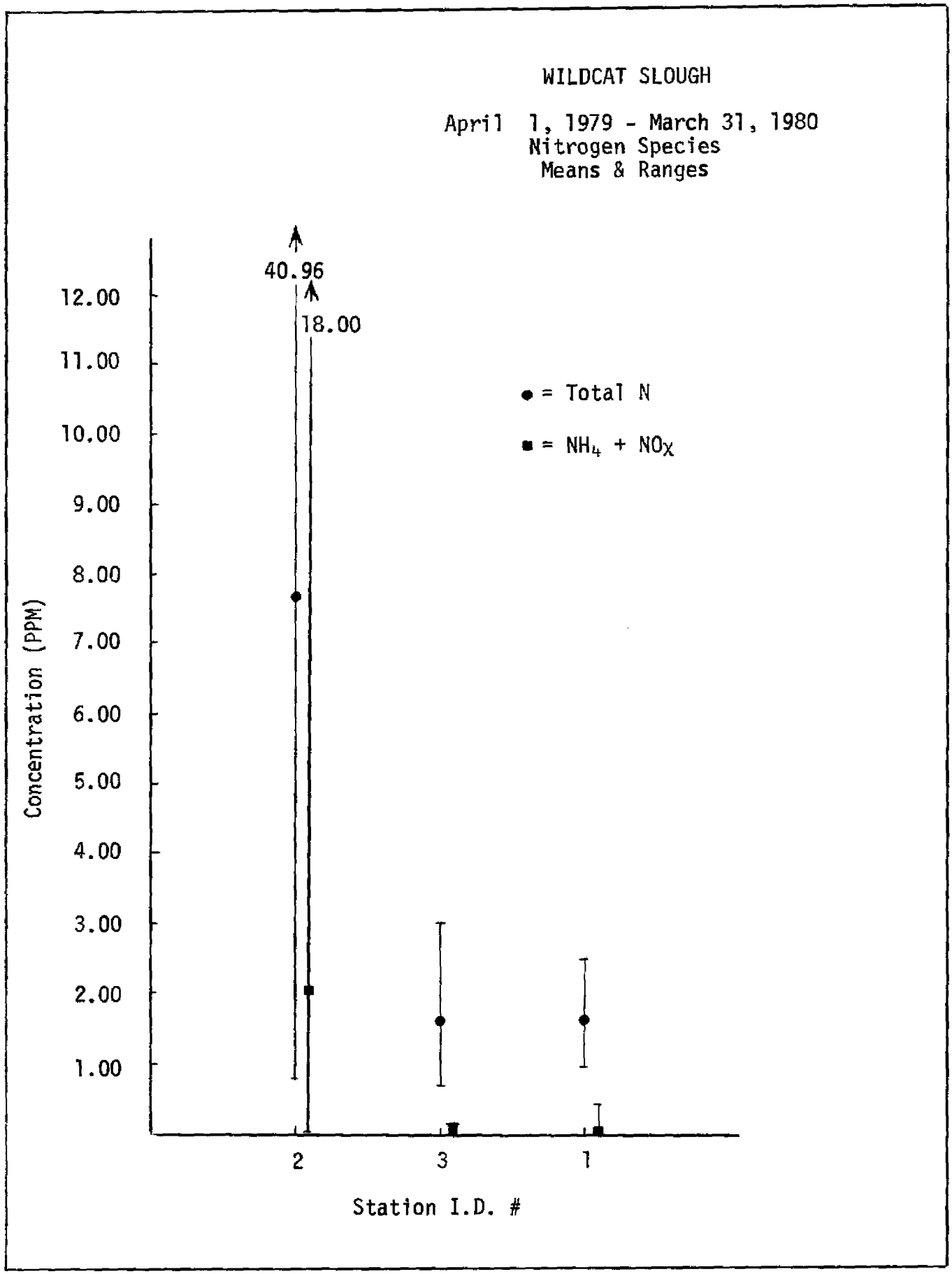
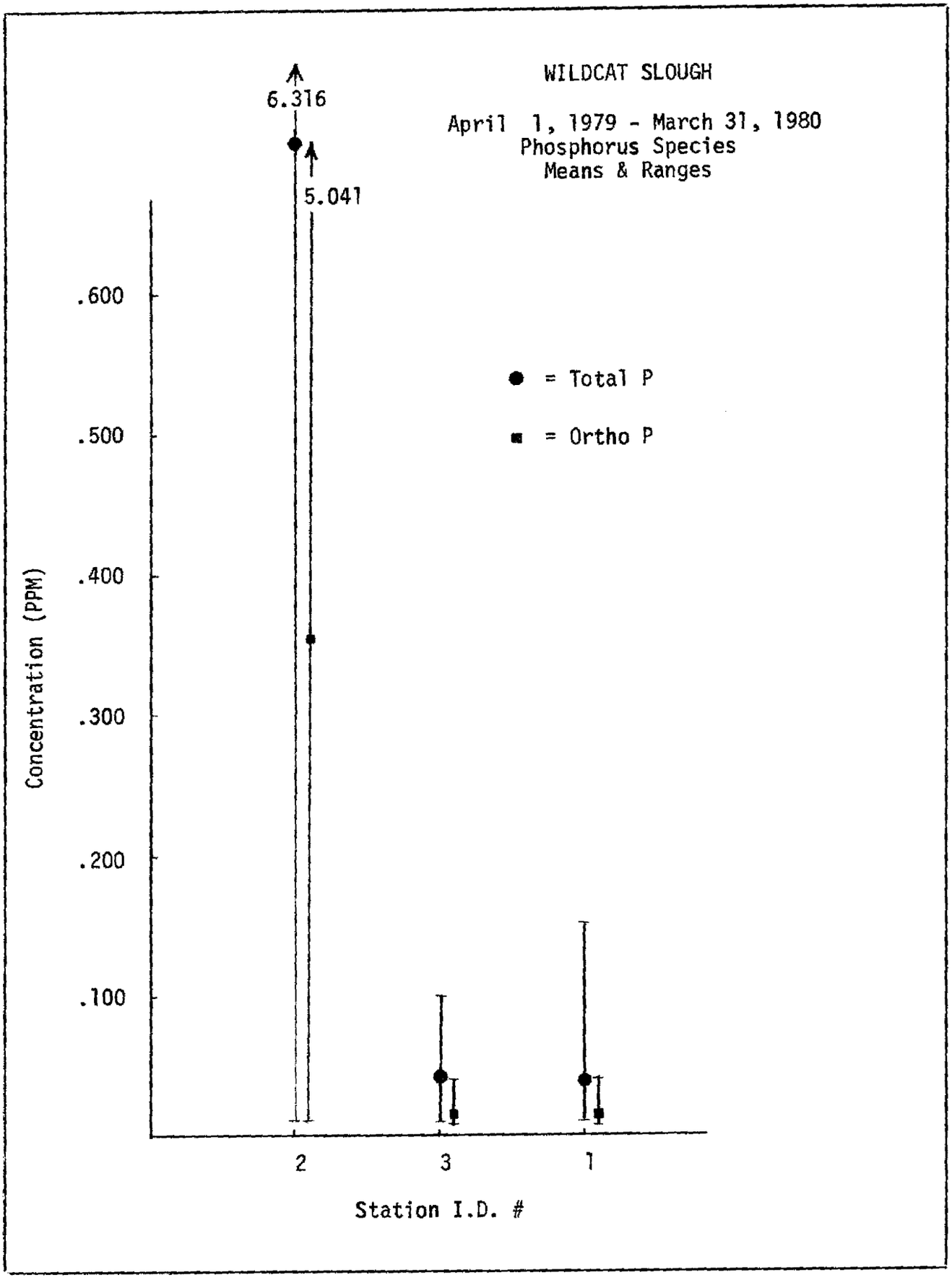


Figure III-12



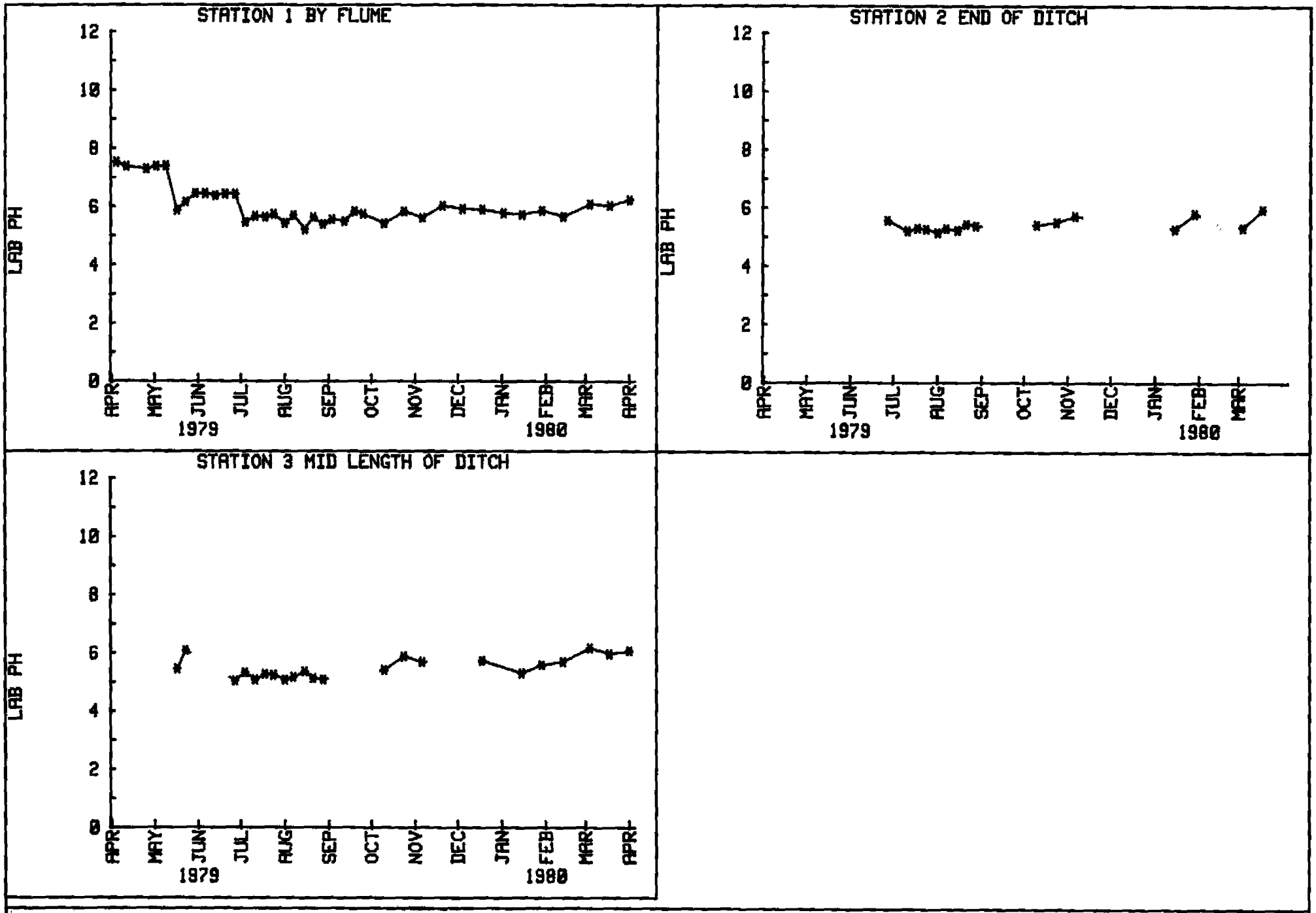


Figure III-13 LAB PH FOR PEAVINE PASTURE

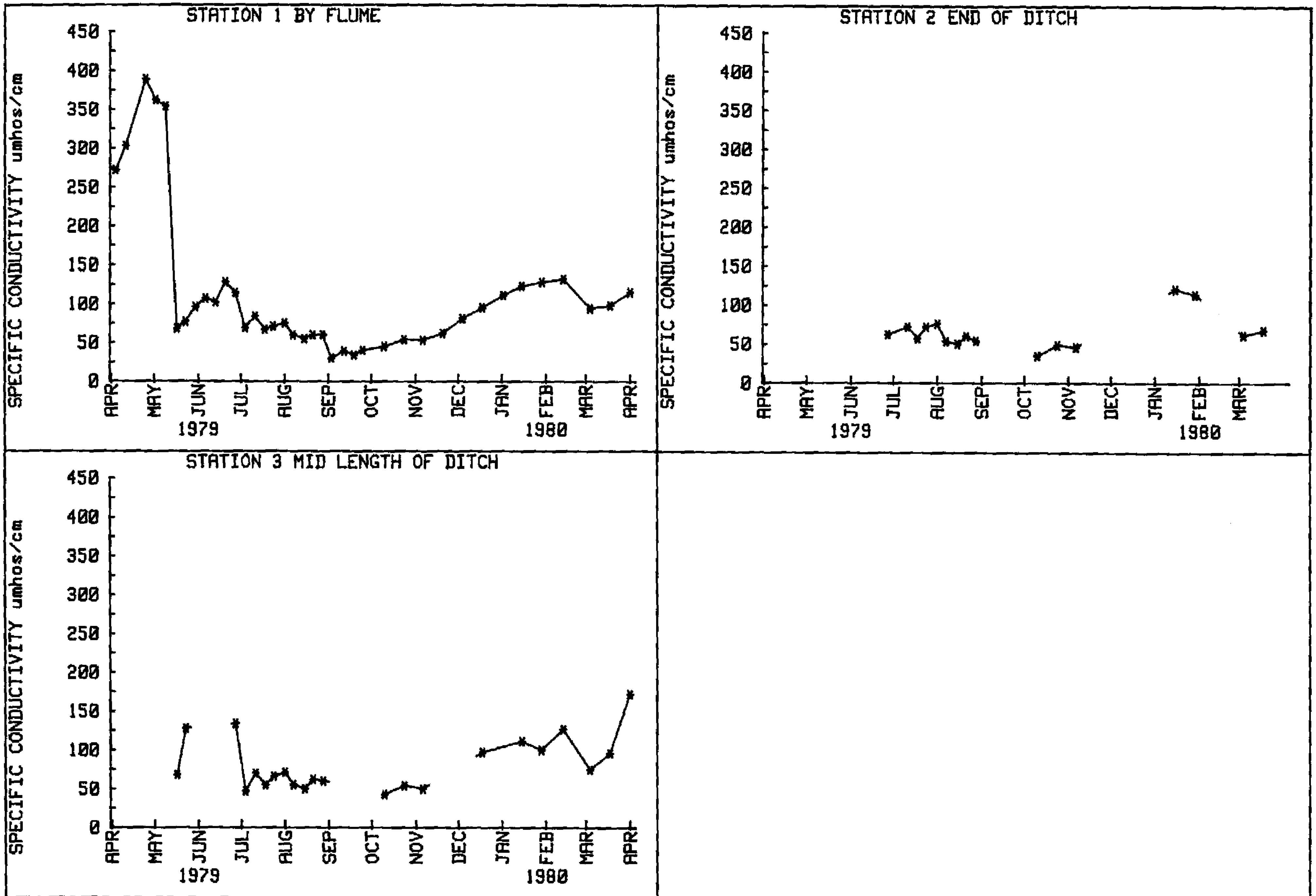


Figure III-14 LAB CONDUCTIVITY FOR PEAVINE PASTURE

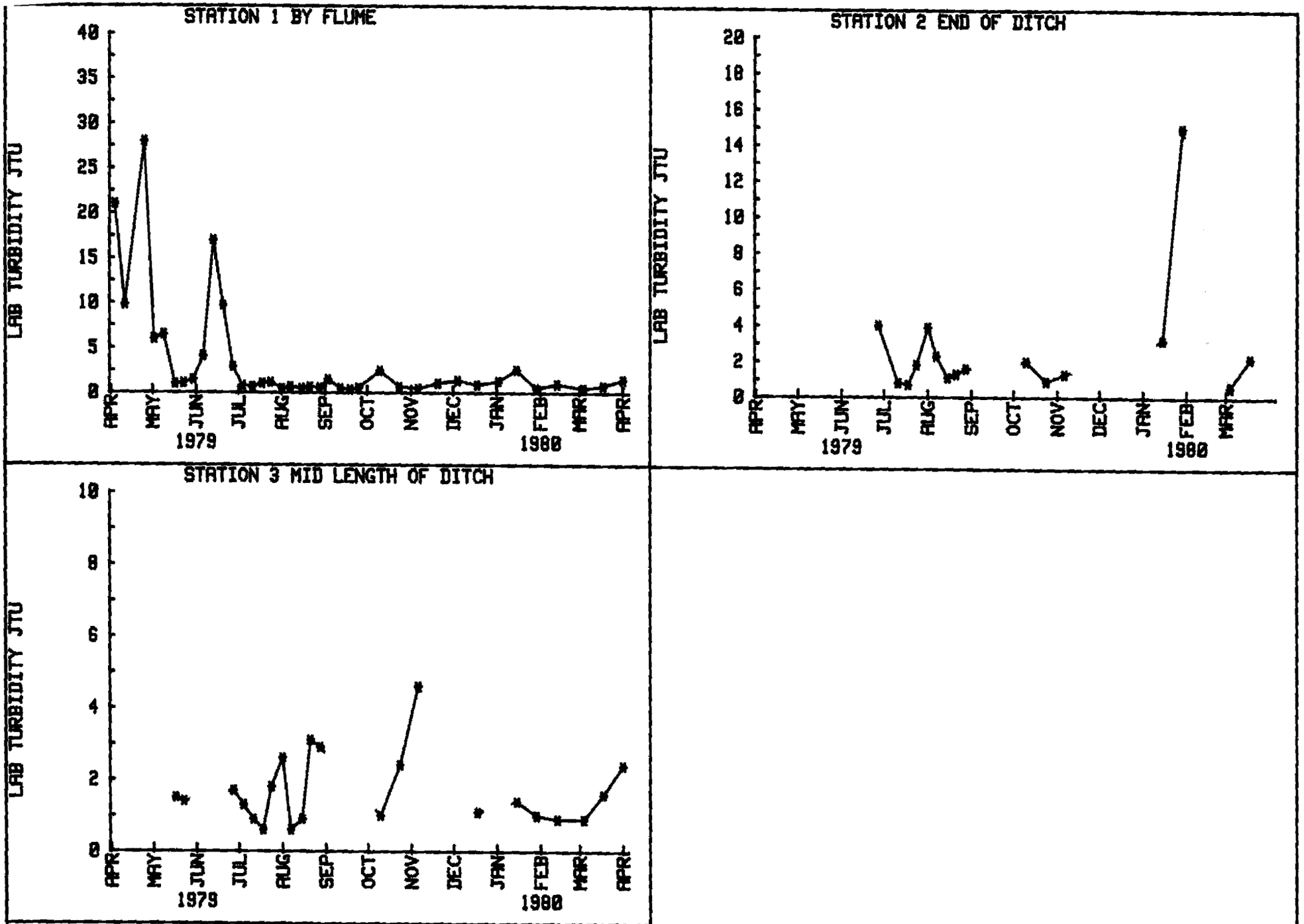


Figure III-15 LAB TURBIDITY FOR PEAVINE PASTURE

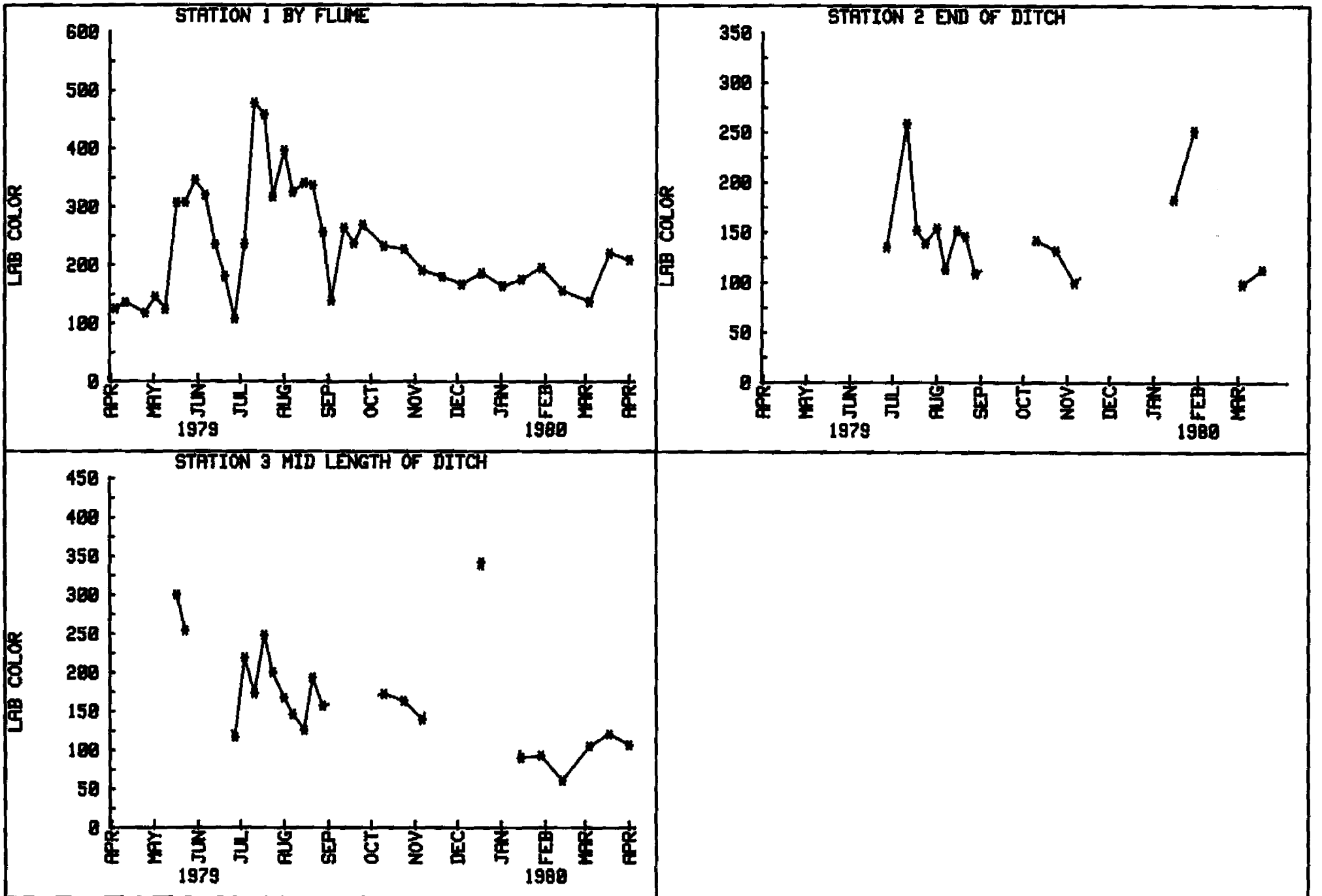


Figure III-16 LAB COLOR FOR PEAVINE PASTURE

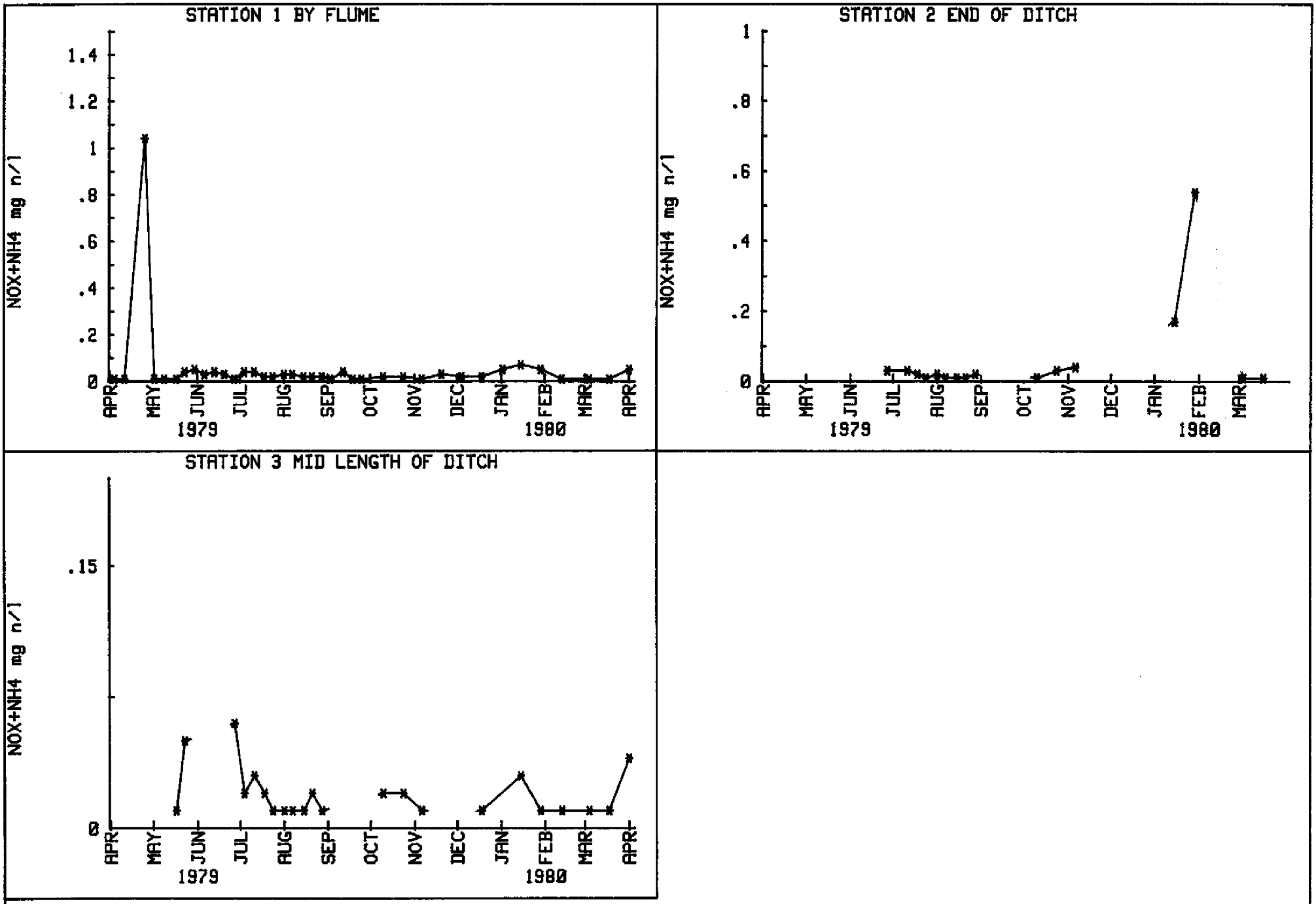


Figure III-17 NOX+NH4 FOR PEAVINE PASTURE

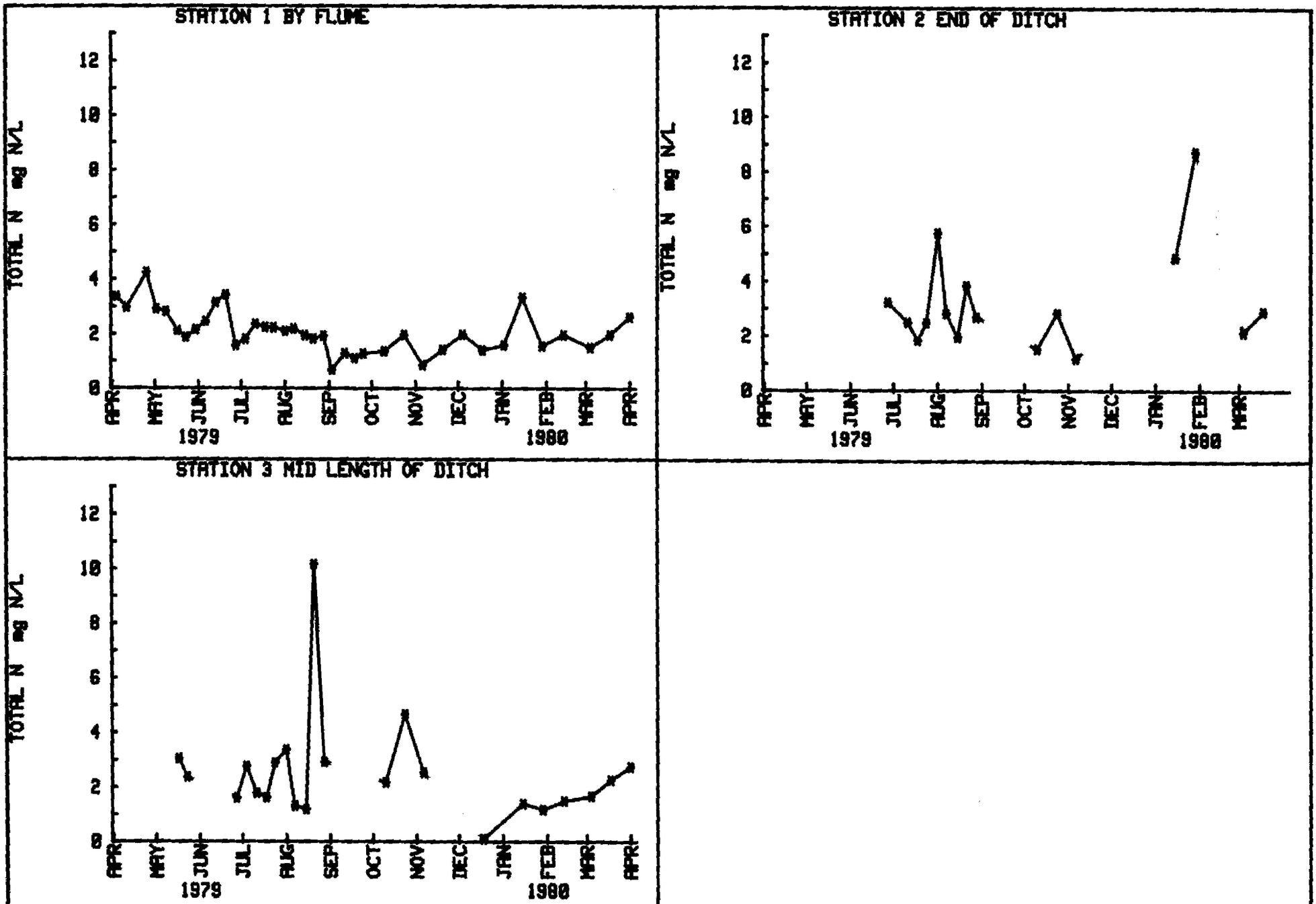
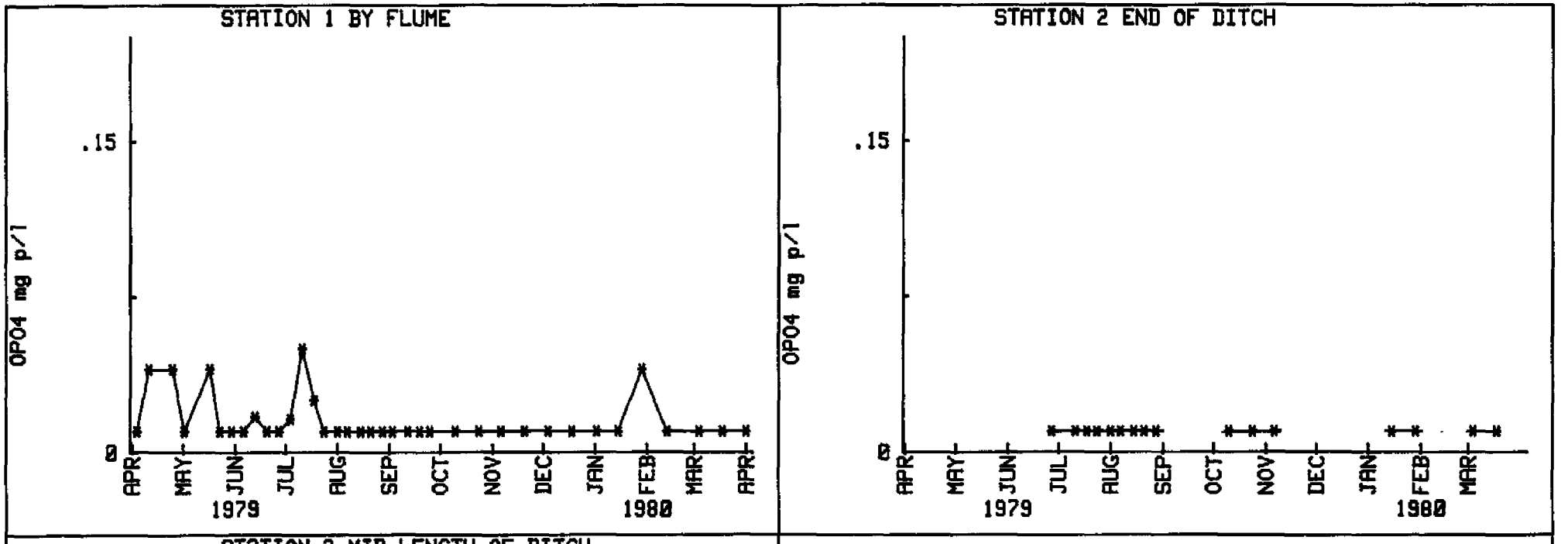


Figure III-18 TOTAL NITROGEN FOR PEAVINE PASTURE



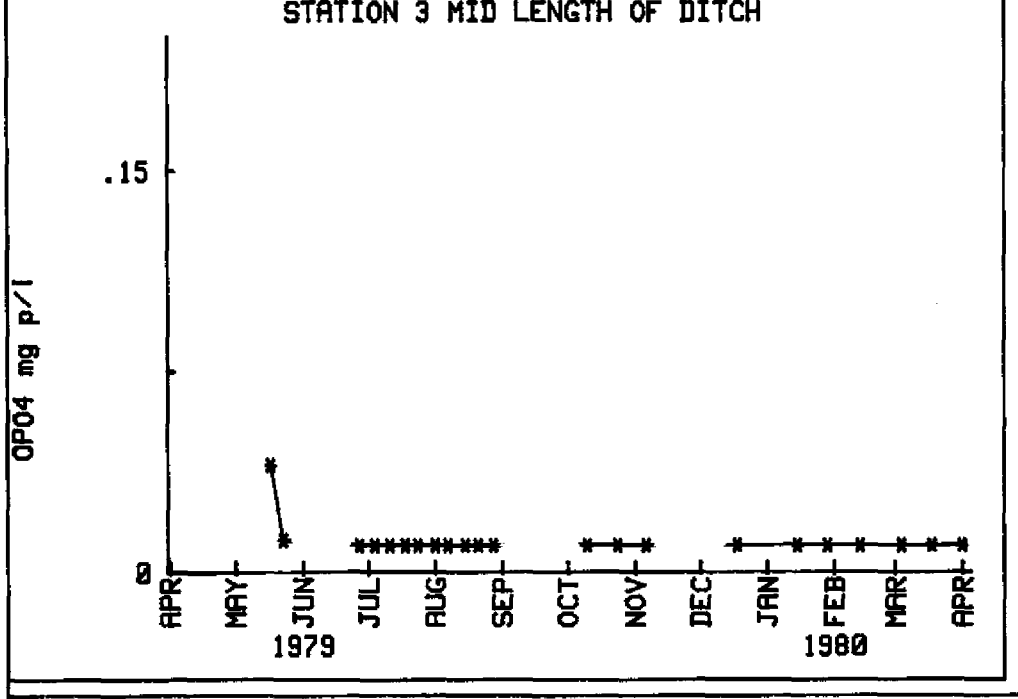


Figure III-19 ORTHO PHOSPHORUS FOR PEAVINE PASTURE

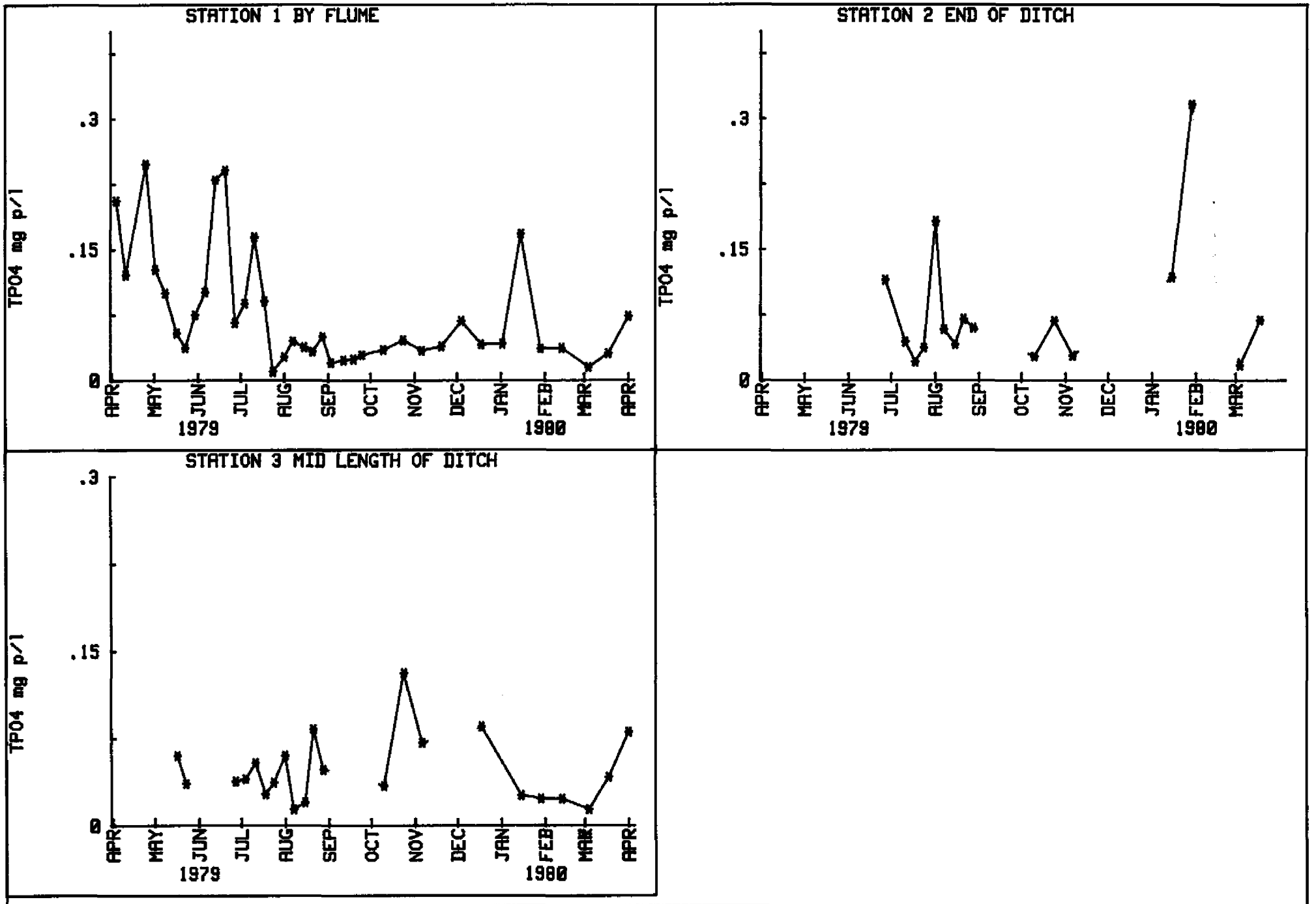


Figure III-20 TOTAL PHOSPHORUS FOR PEAVINE PASTURE

Figure III-21

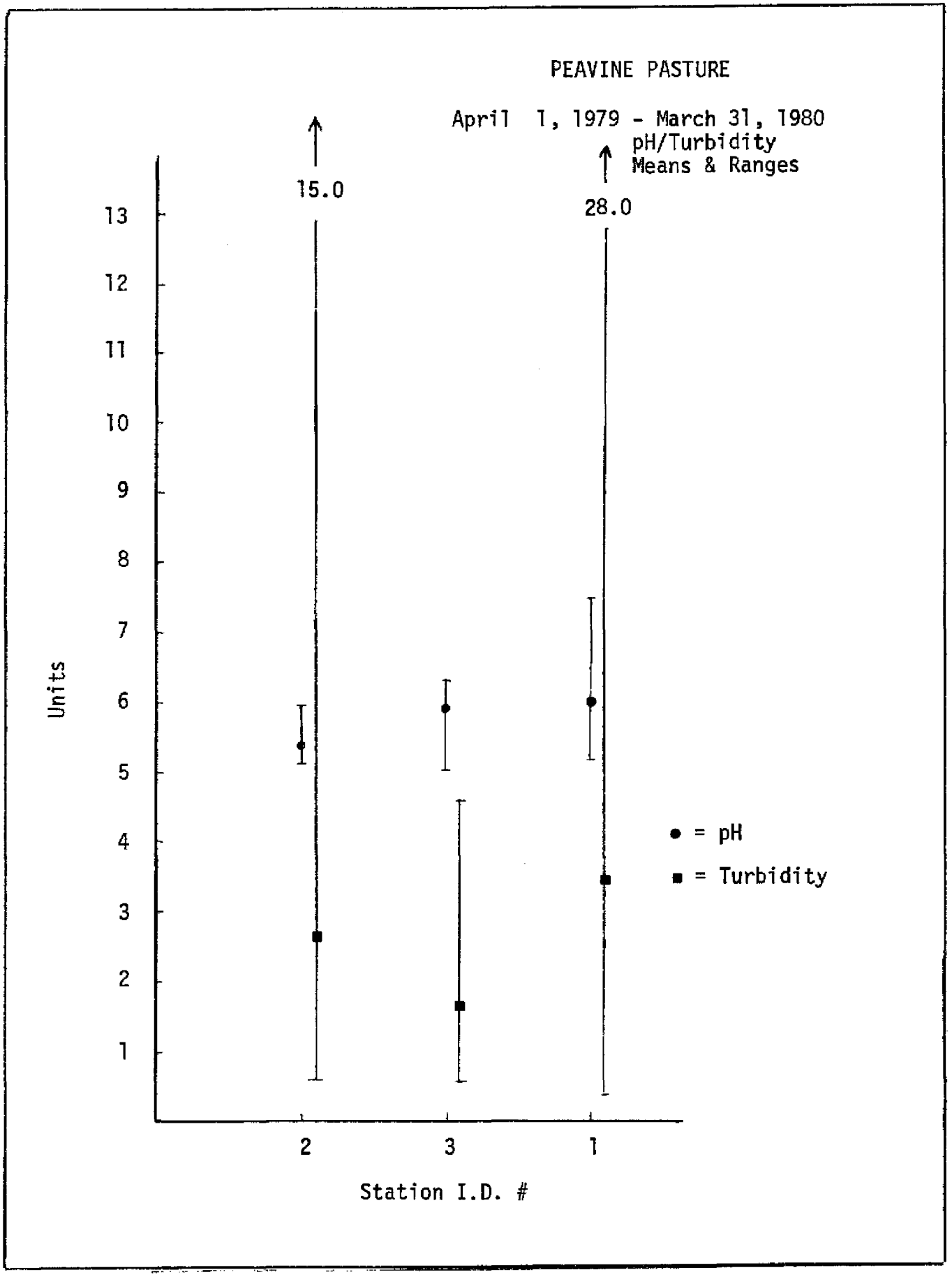


Figure III-22

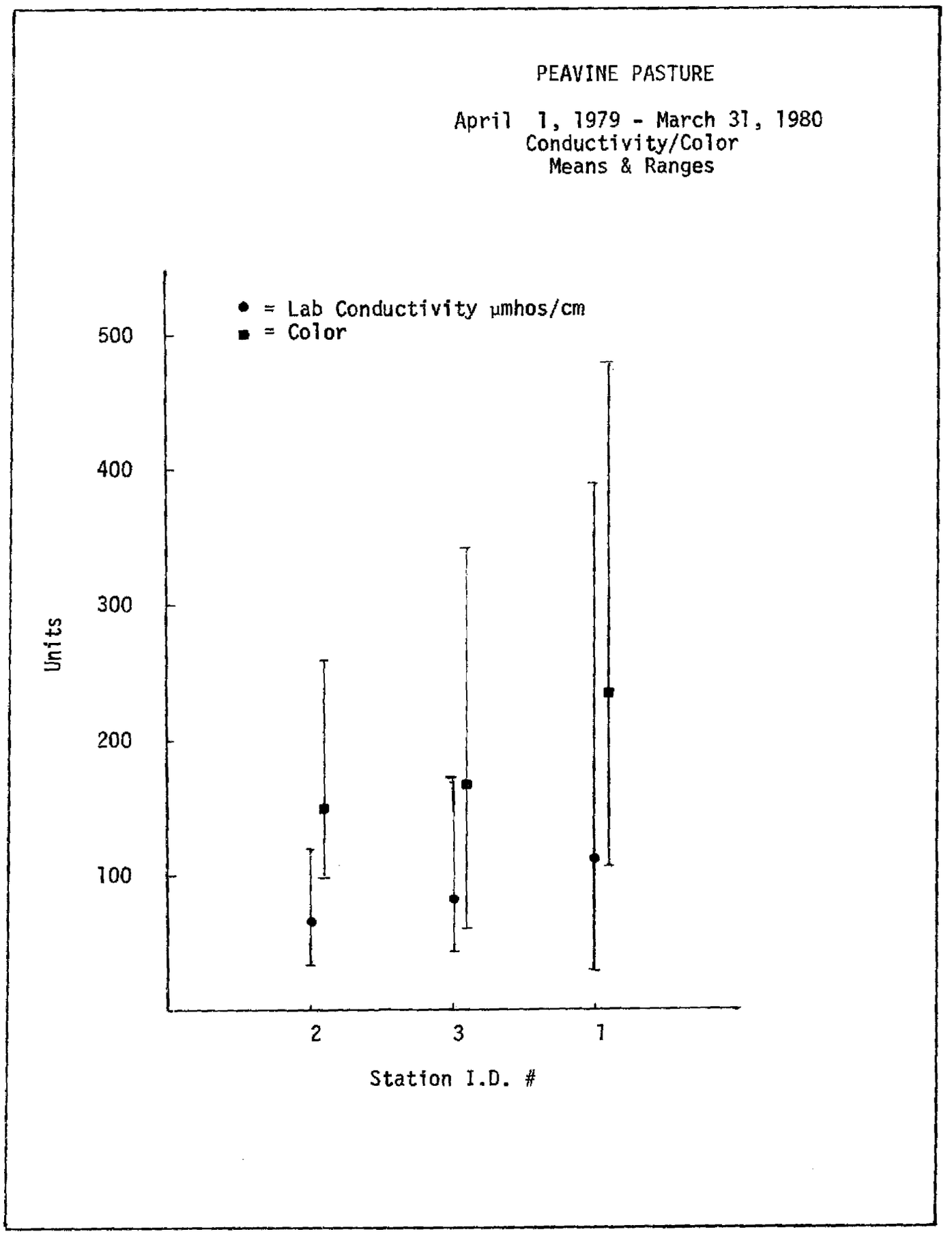


Figure III-23

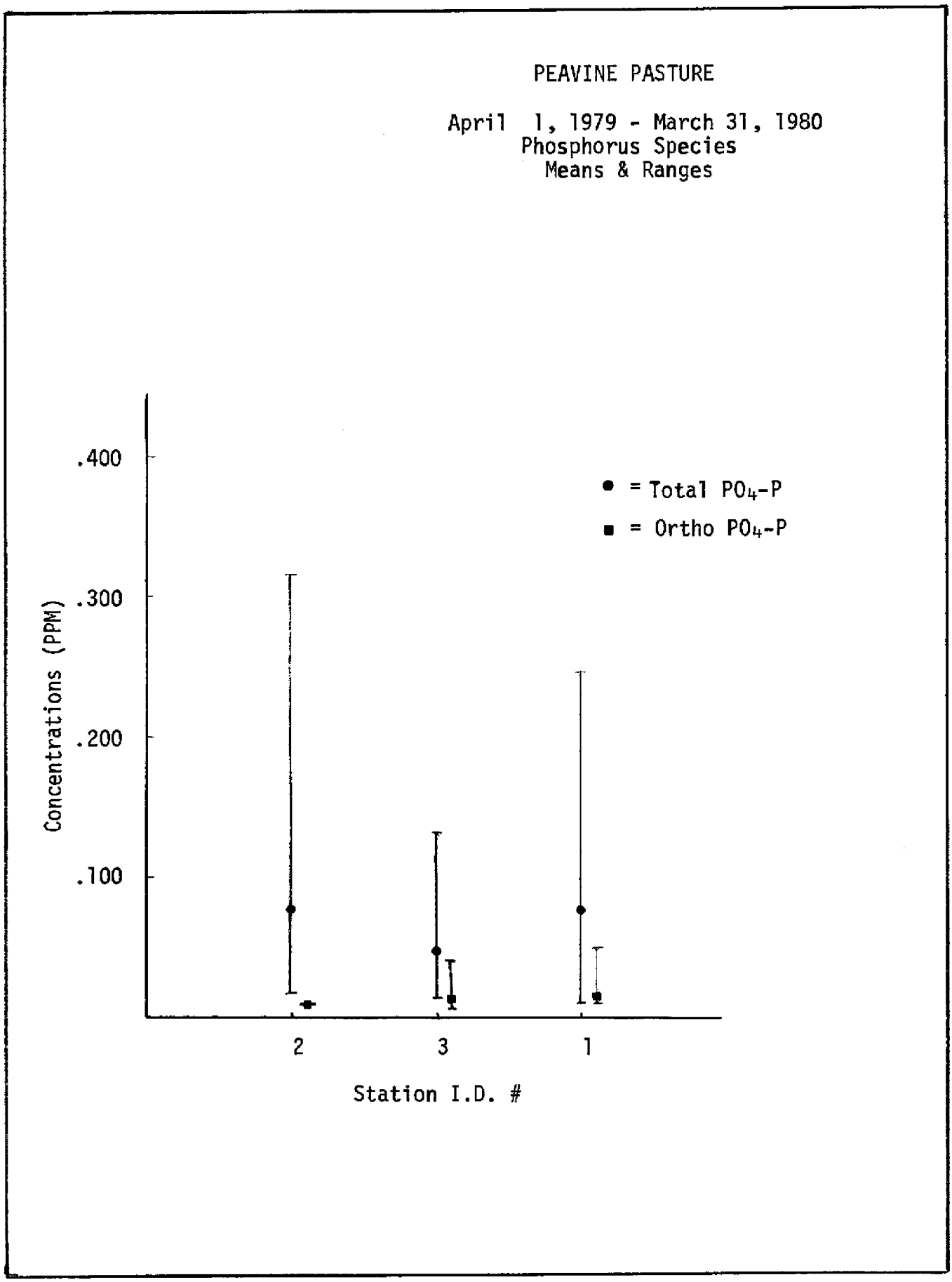
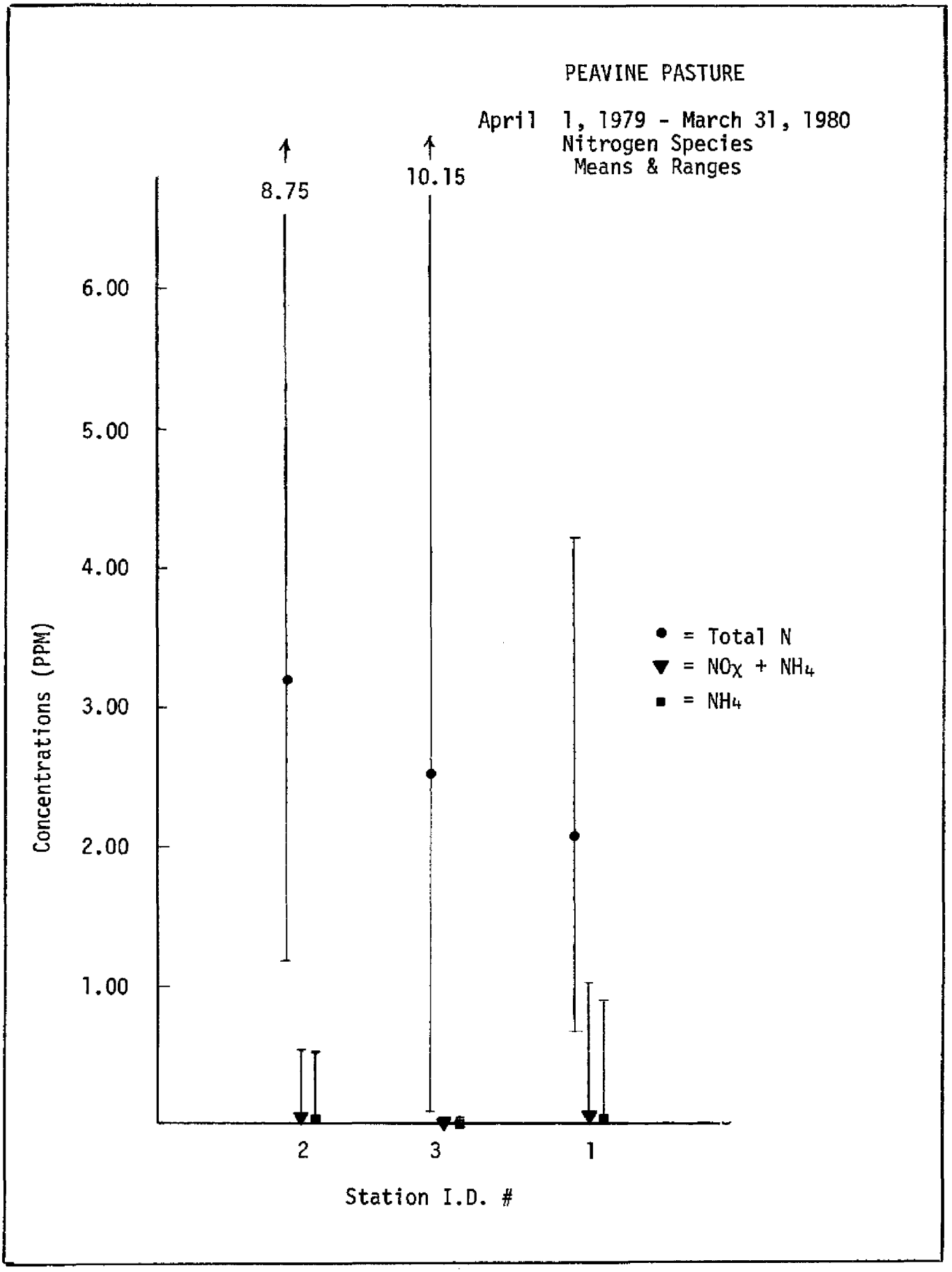


Figure III-24



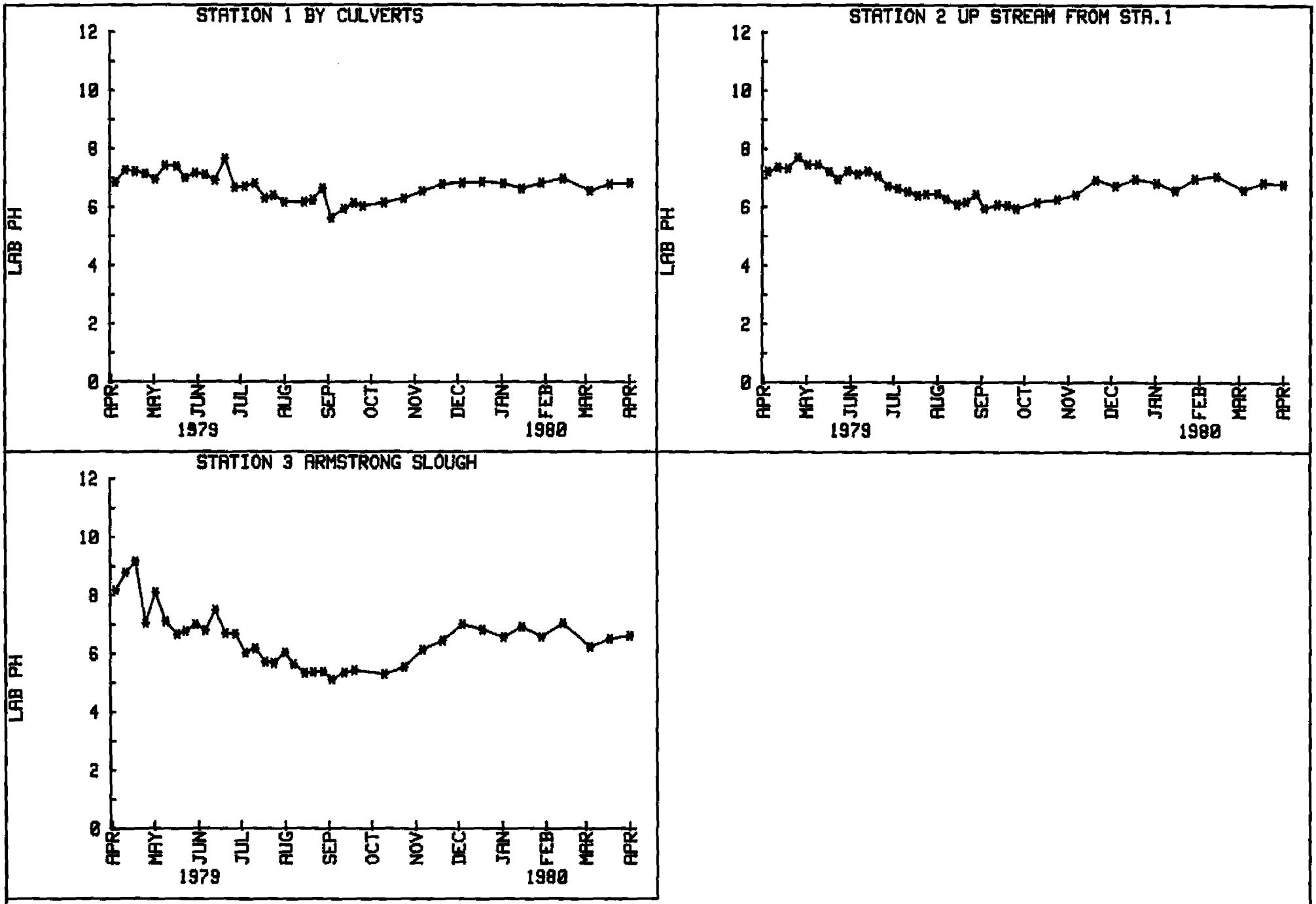
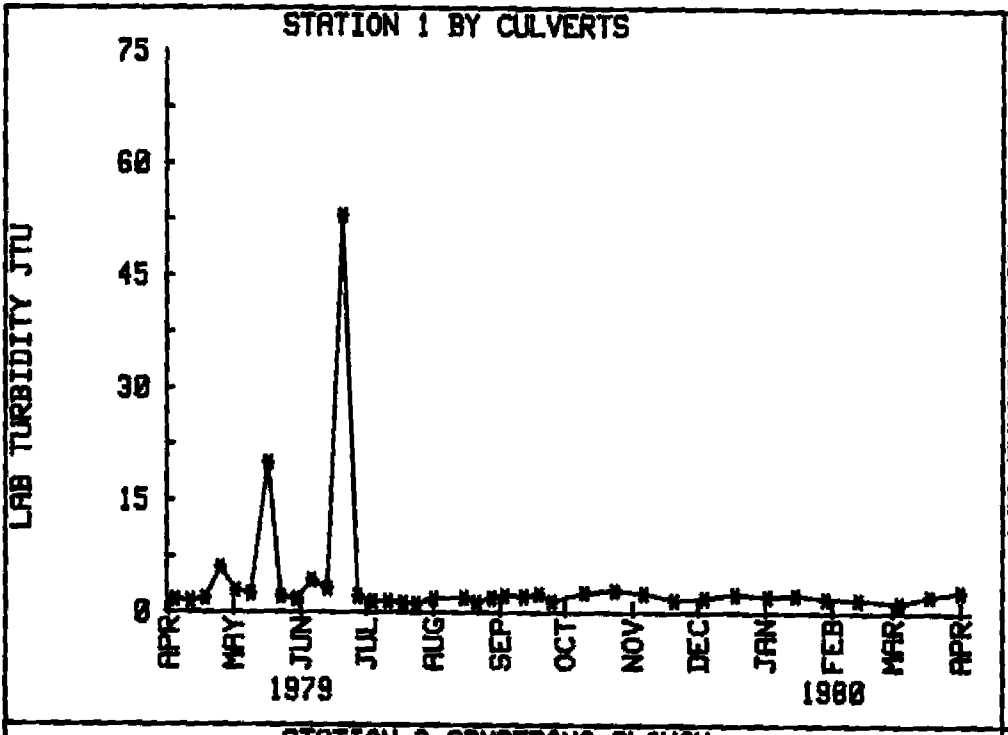


Figure III-25 LAB PH FOR ARMSTRONG SLOUGH



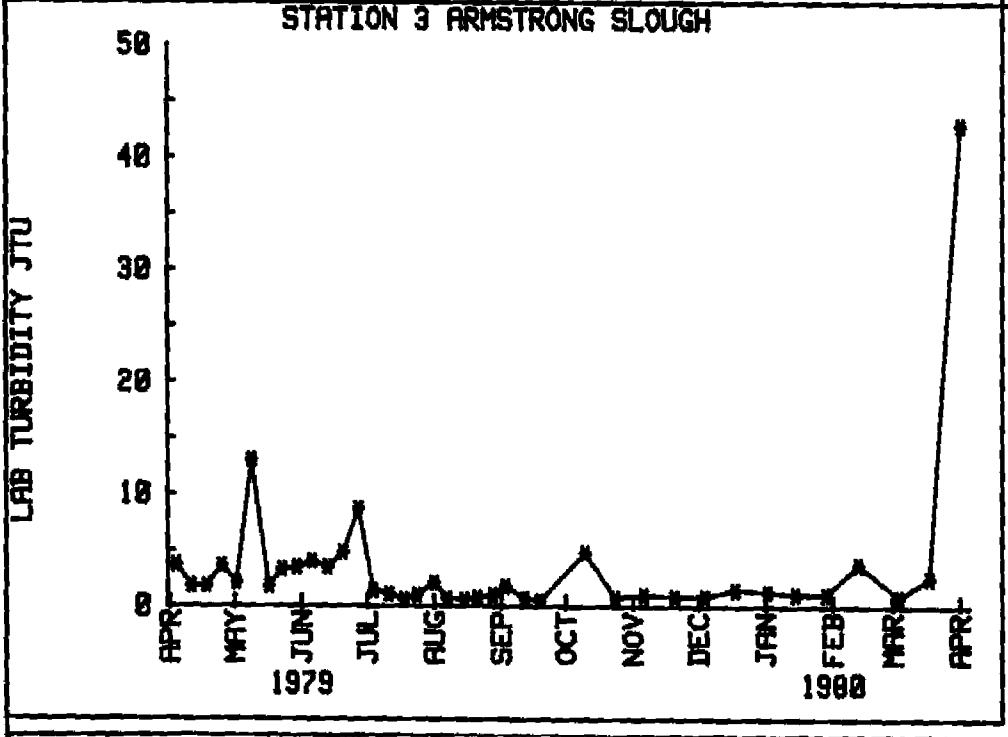
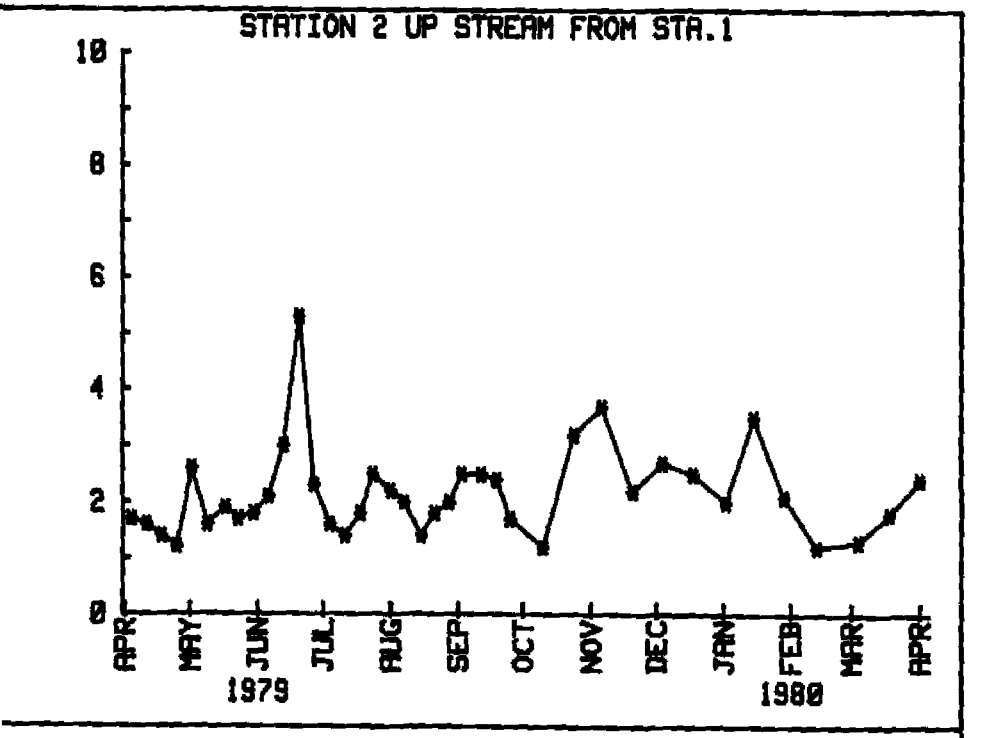


Figure III-26 LAB TURBIDITY FOR ARMSTRONG SLOUGH


STATION 2 UP STREAM FROM STA.1
10
8
6
4
2
0
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
1979
1980

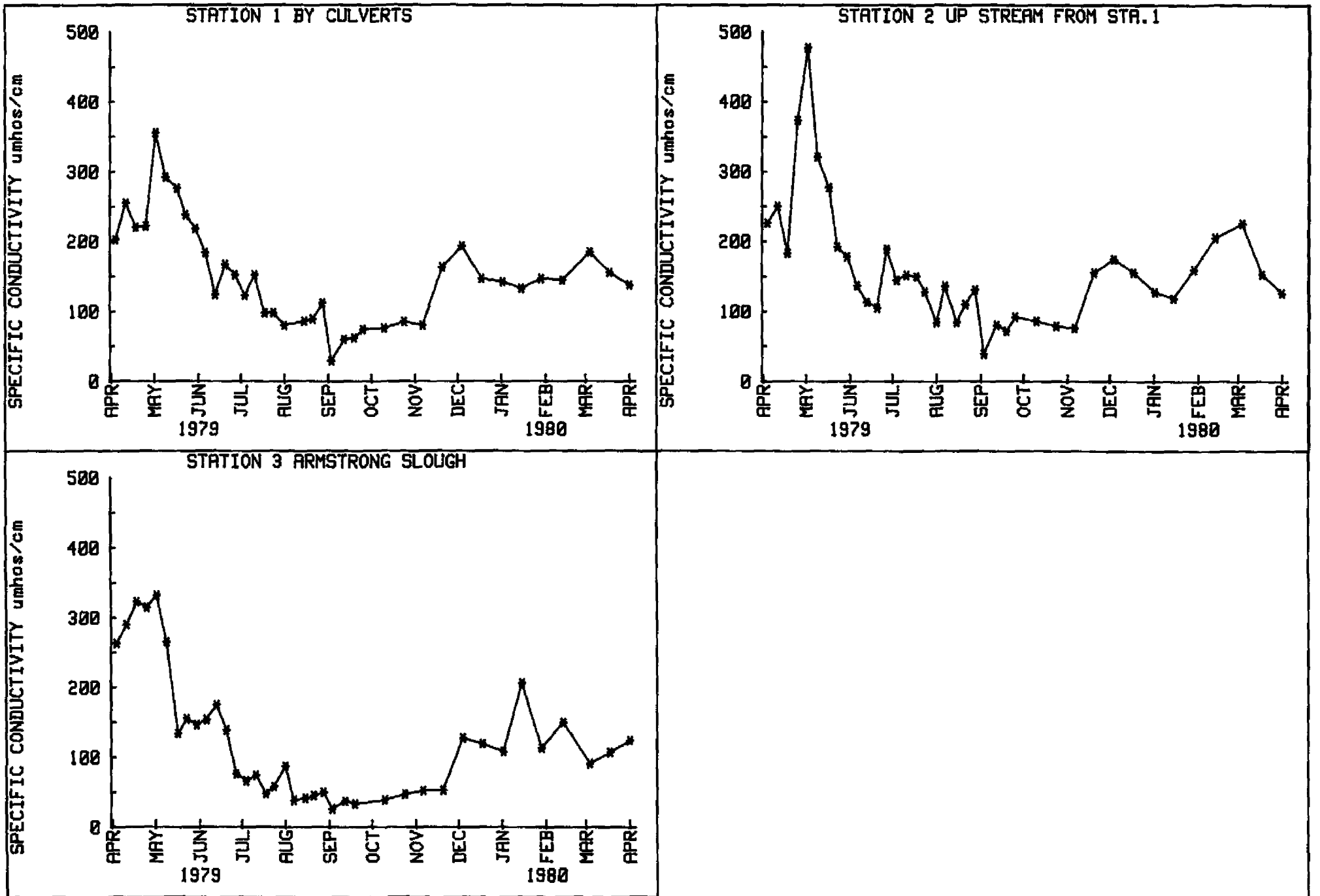


Figure III-27 LAB CONDUCTIVITY FOR ARMSTRONG SLOUGH

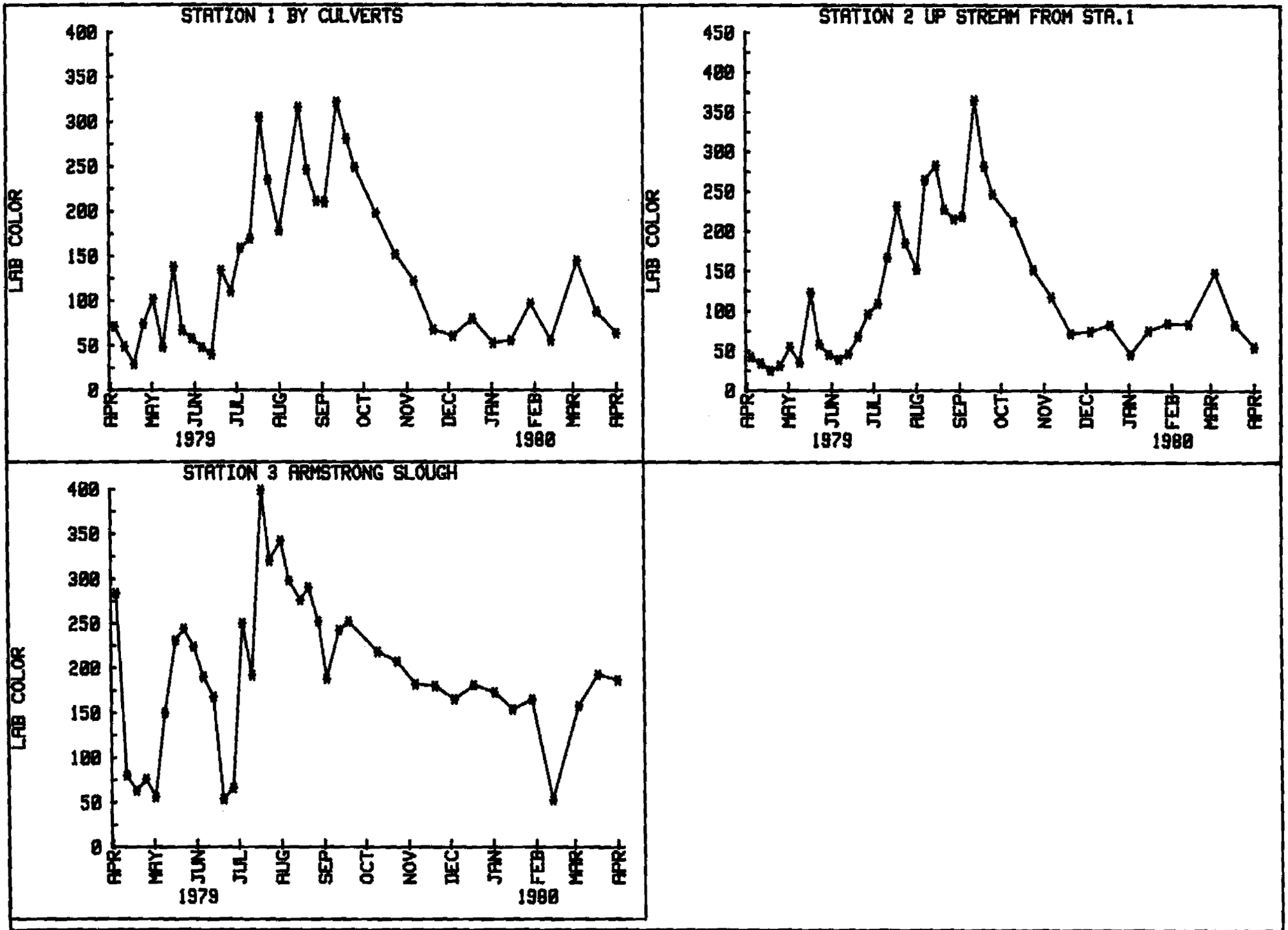


Figure III-28 LAB COLOR FOR ARMSTRONG SLOUGH

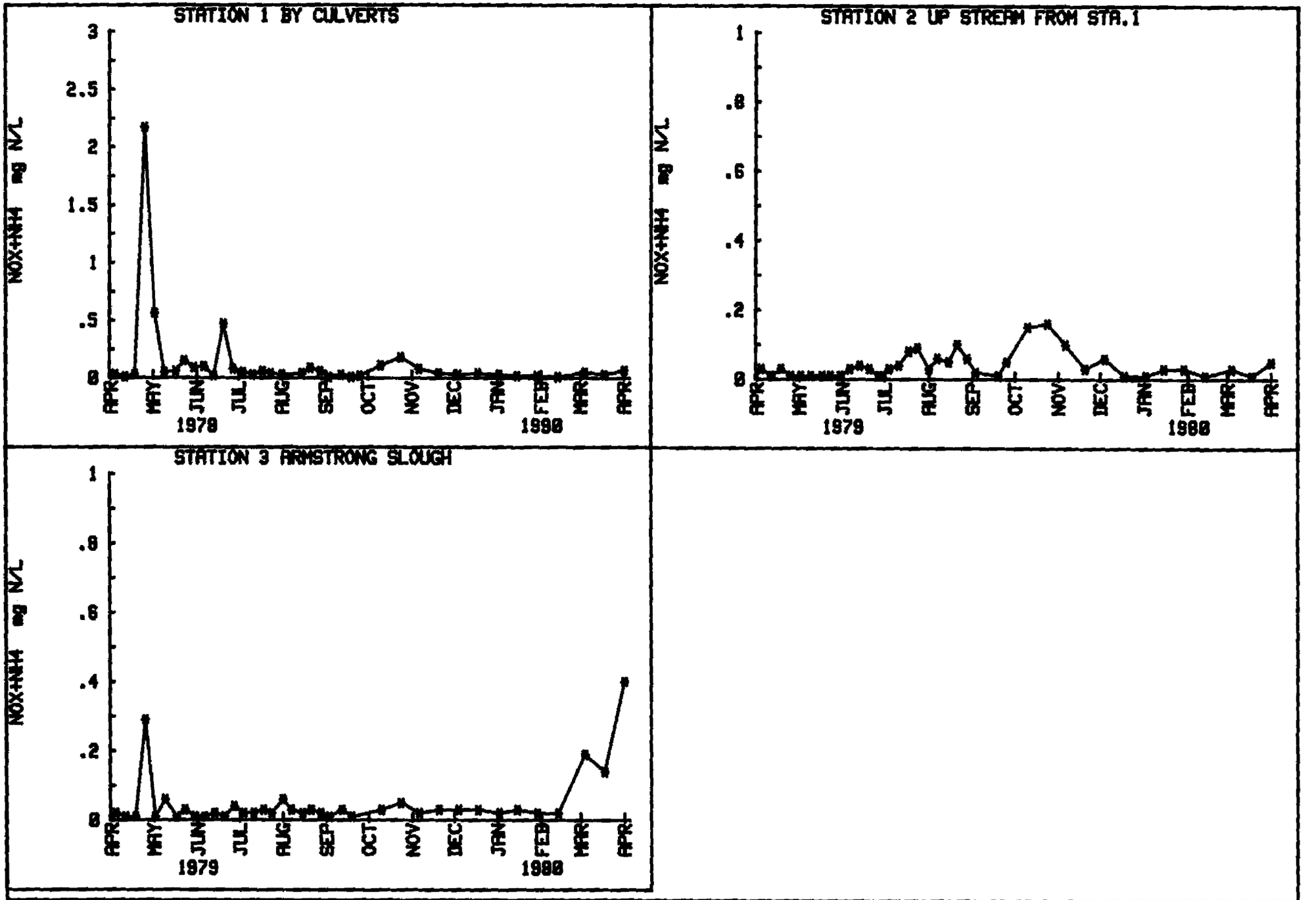
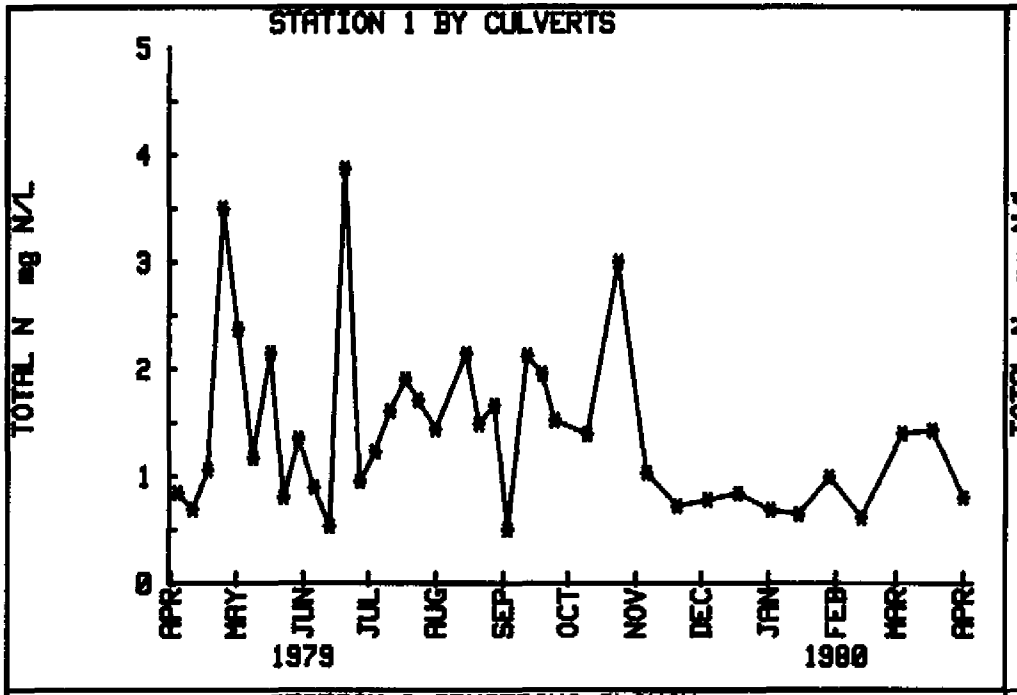
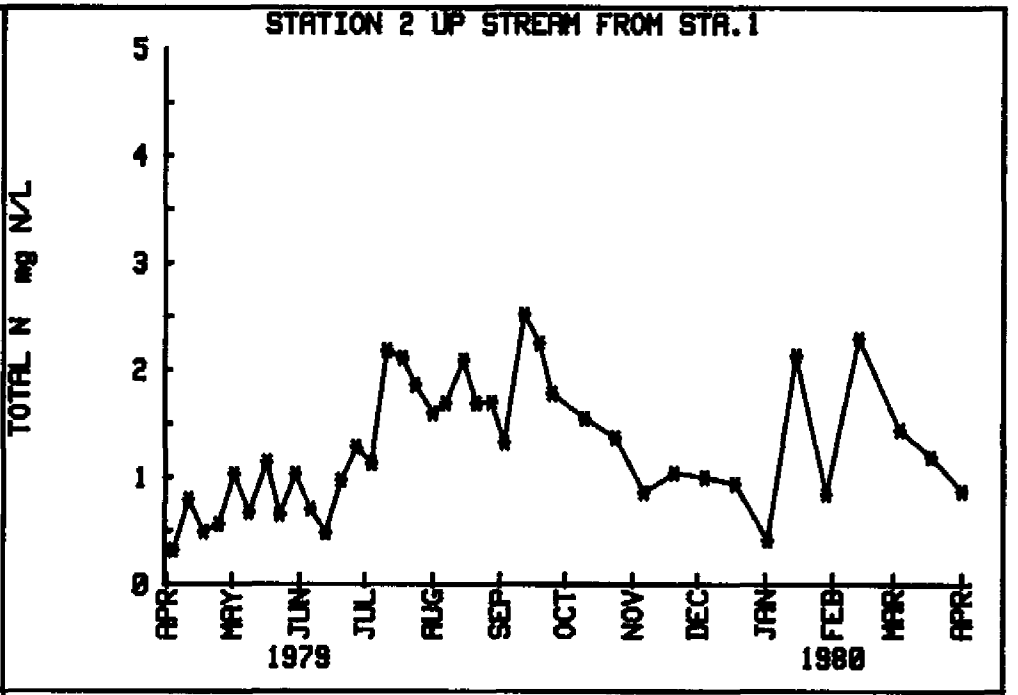


Figure III-29 NOX+NH4 FOR ARMSTRONG SLOUGH





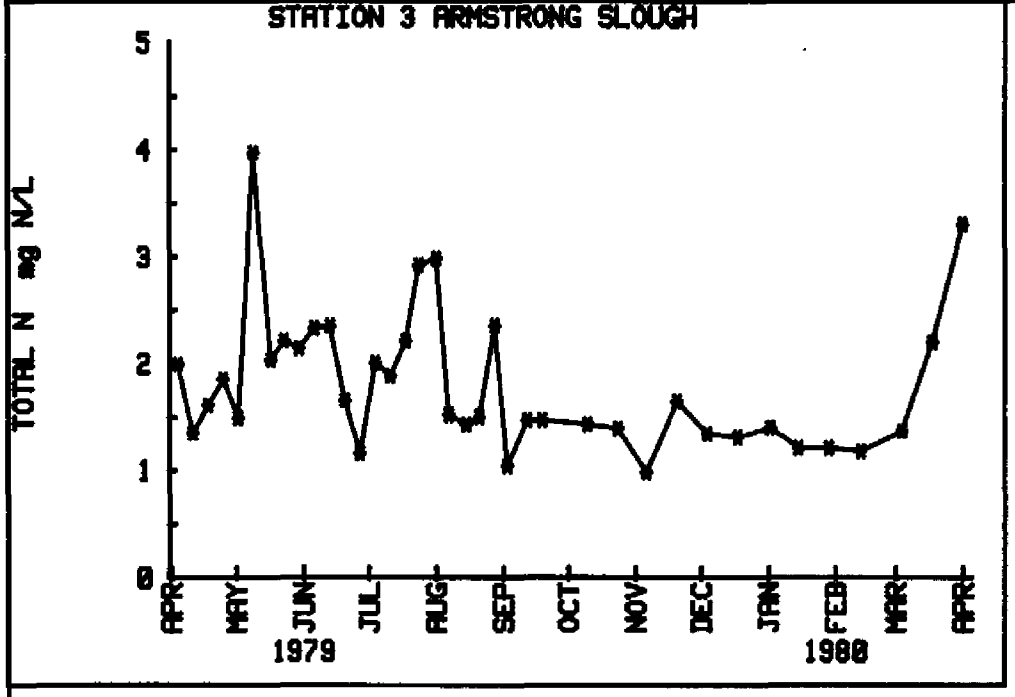


Figure III-30 TOTAL NITROGEN FOR ARMSTRONG SLOUGH

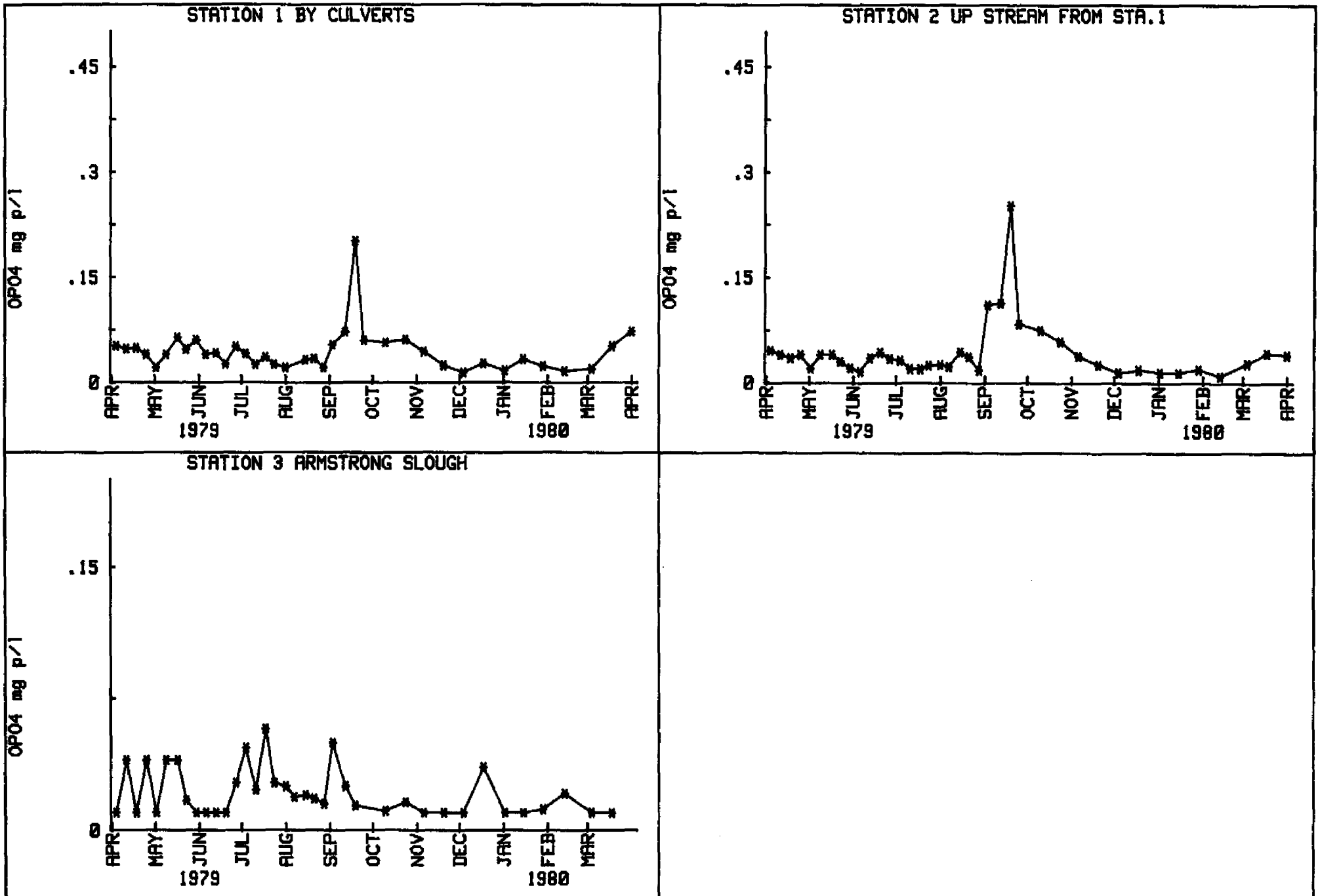


Figure III-31 ORTHO PHOSPHORUS FOR ARMSTRONG SLOUGH

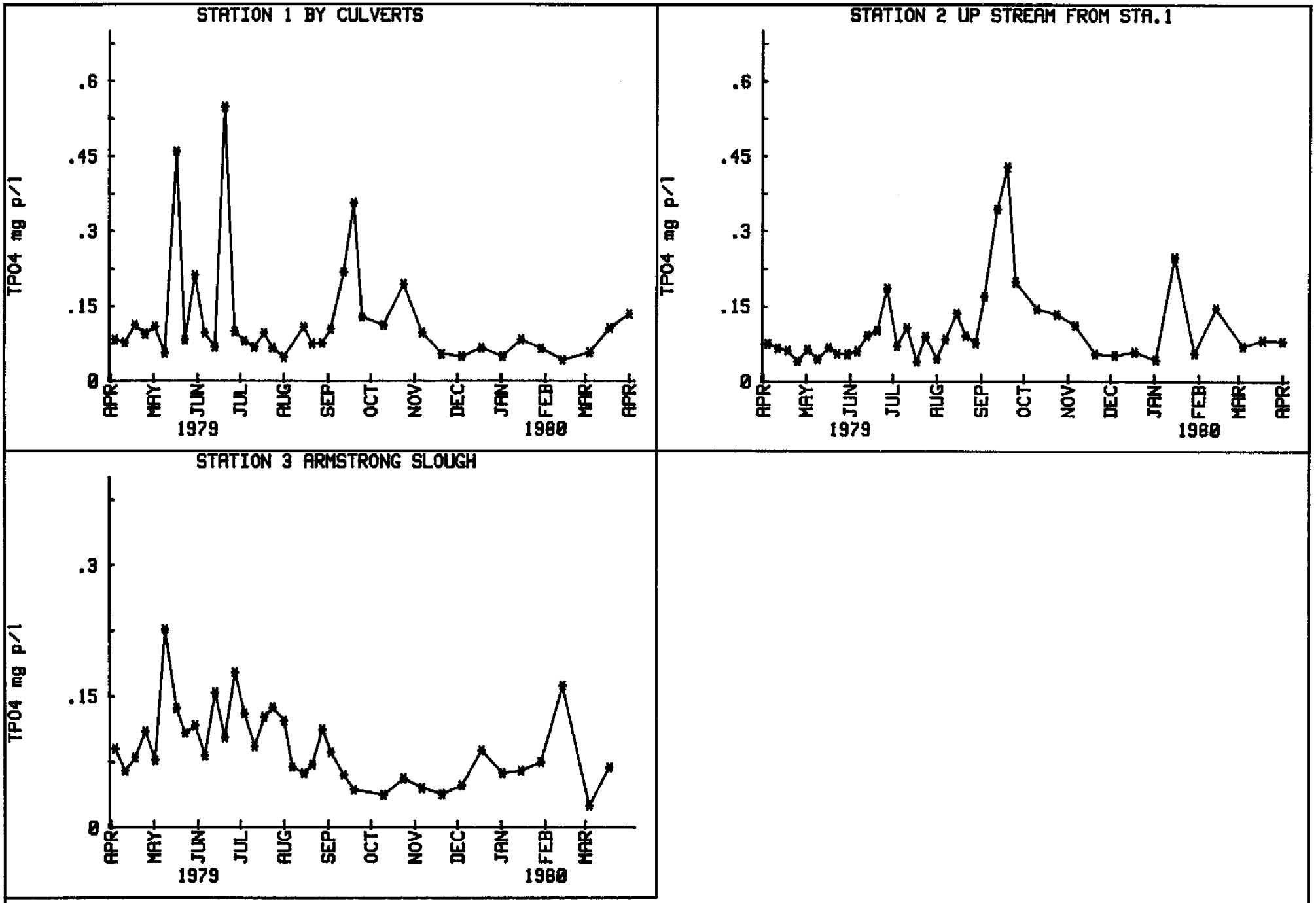


Figure III-32 TOTAL PHOSPHORUS FOR ARMSTRONG SLOUGH

Figure III-33

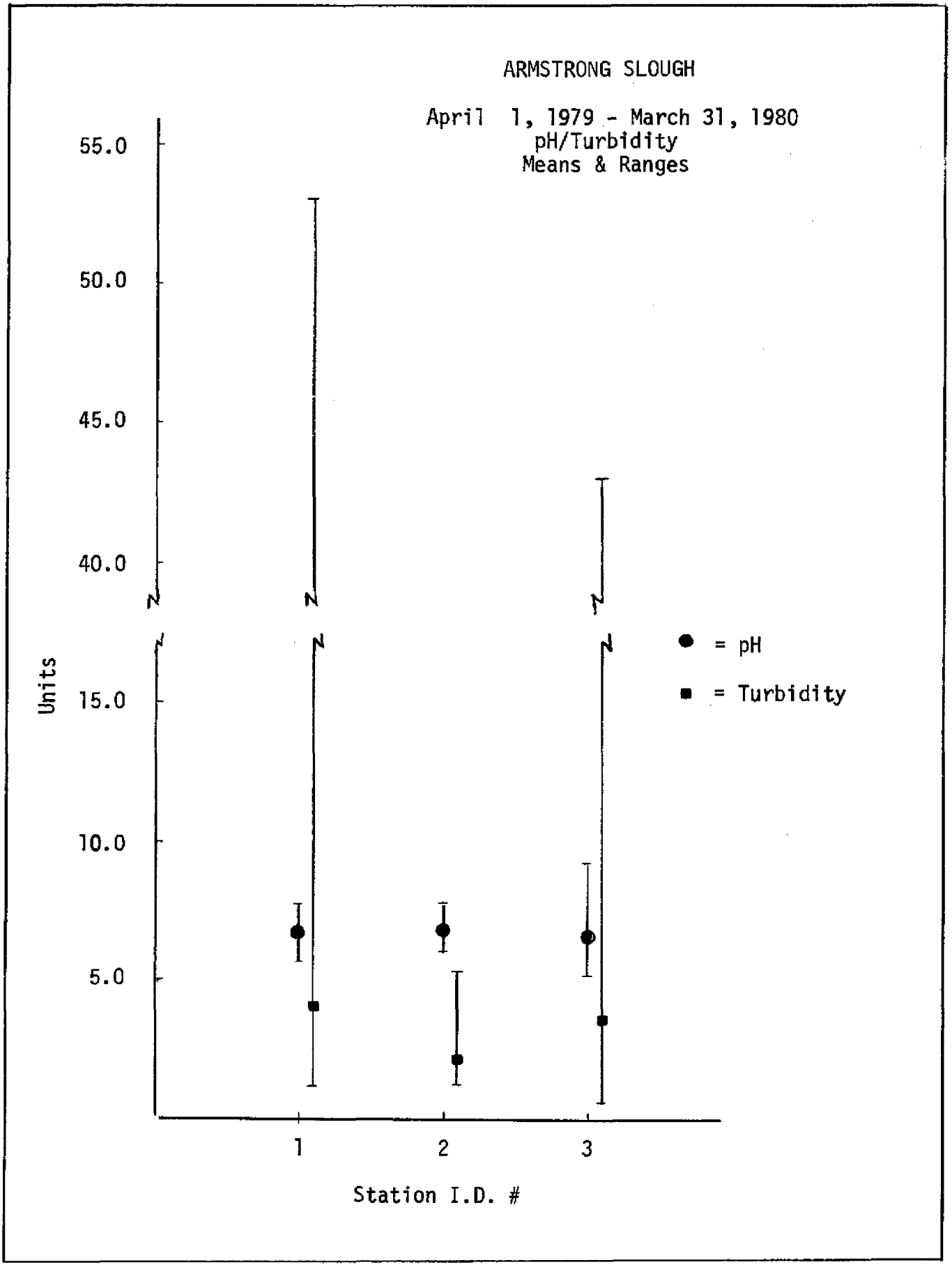


Figure III-34

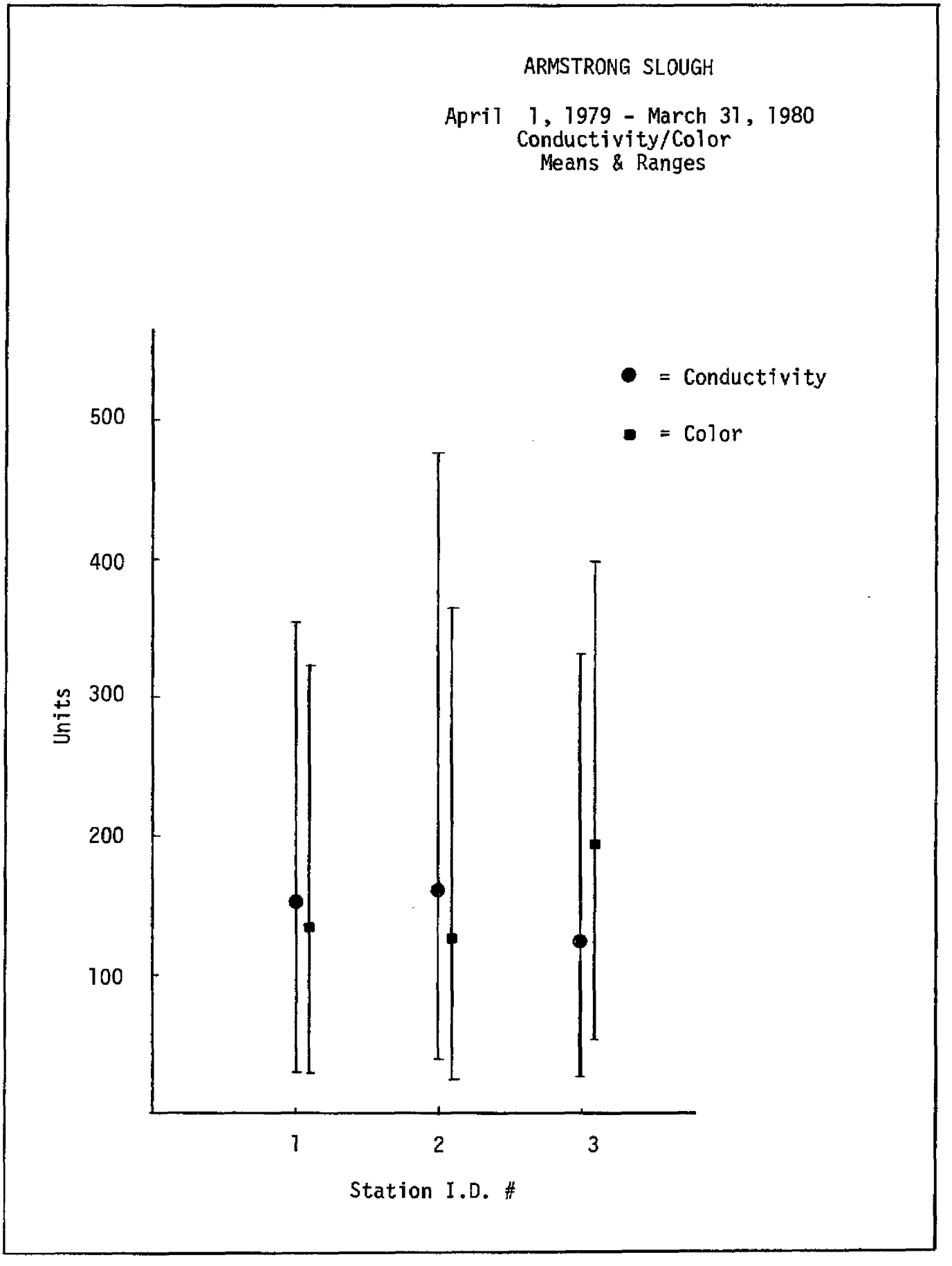


Figure III-35

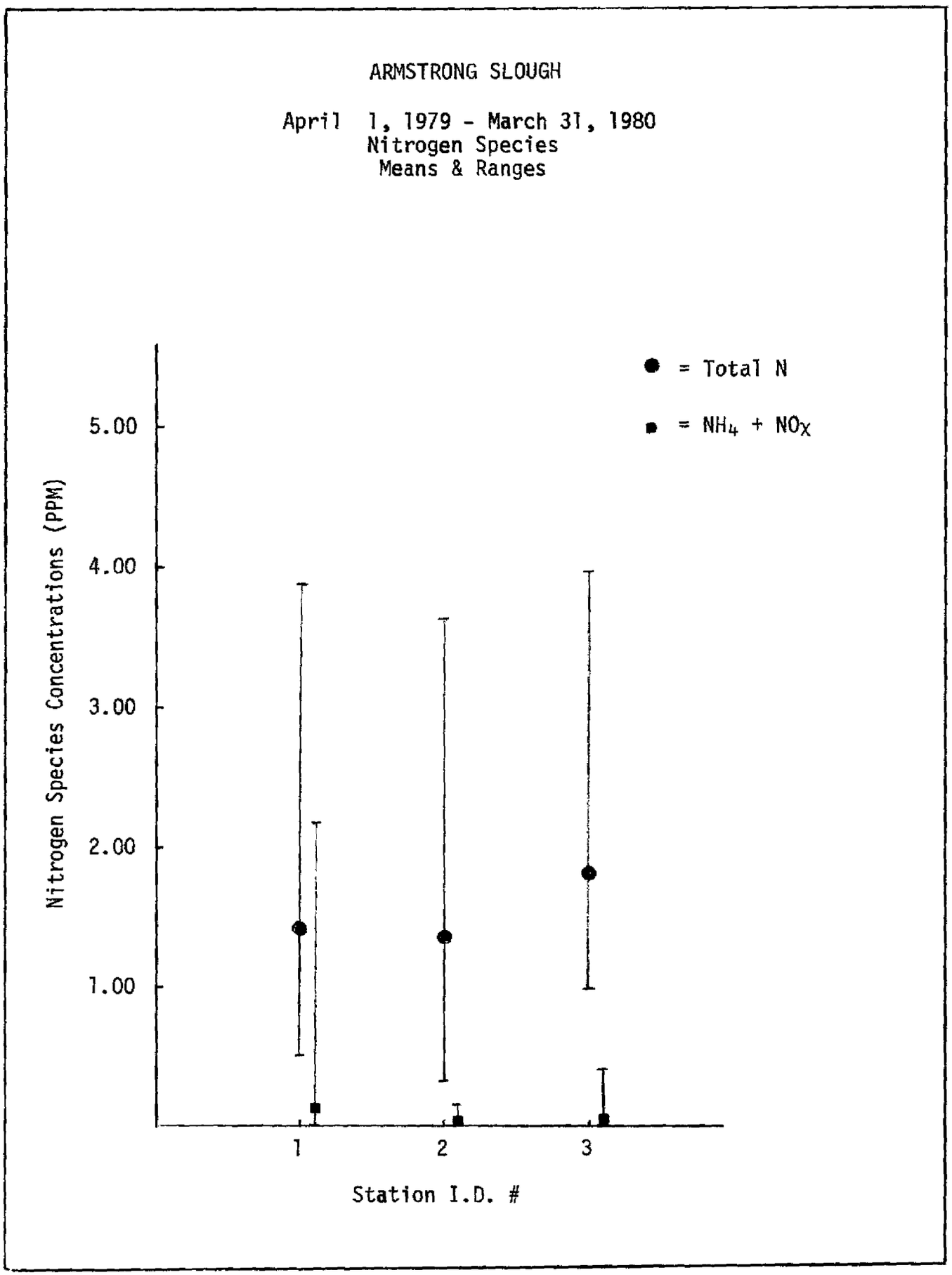
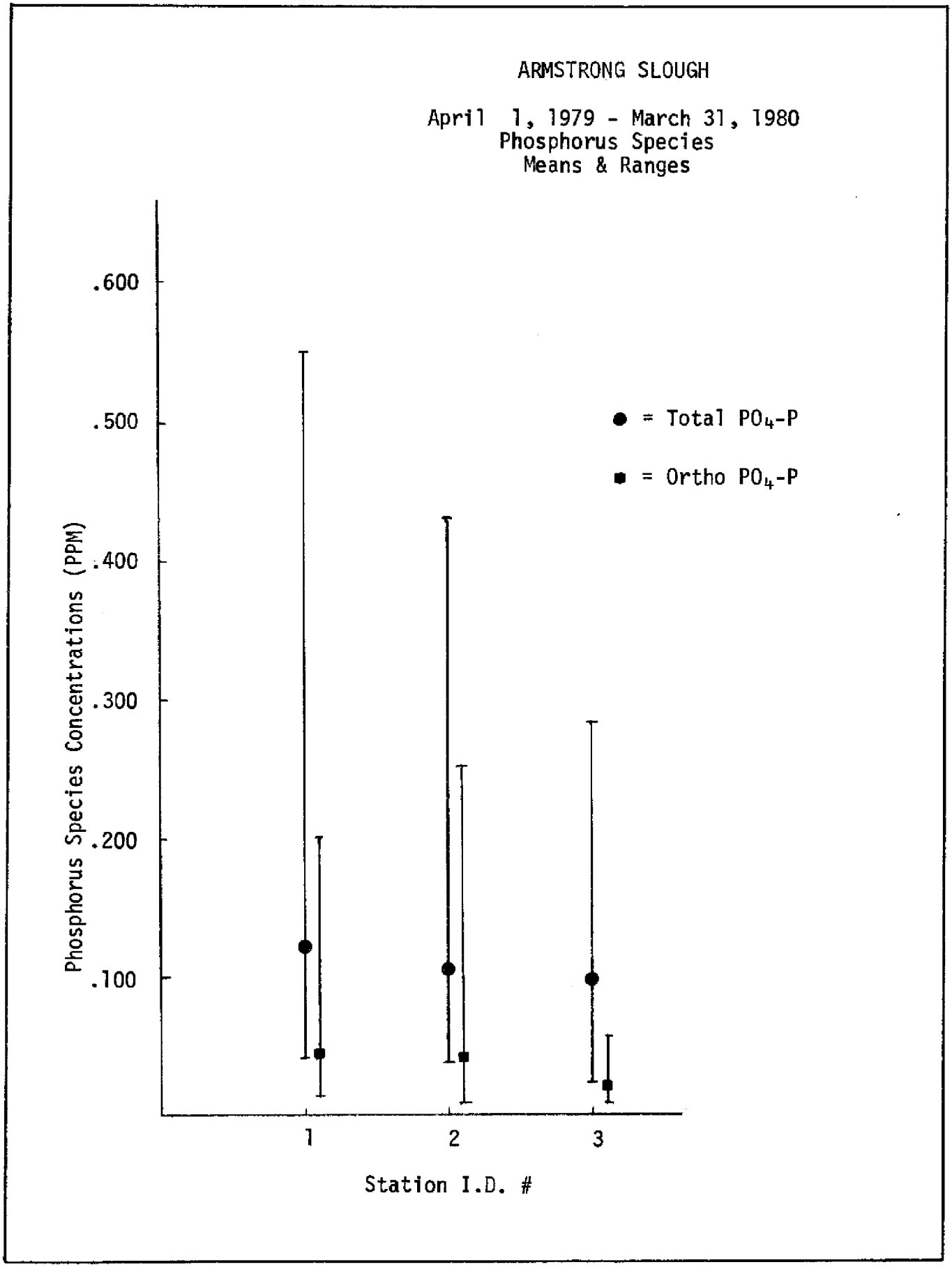


Figure III-36



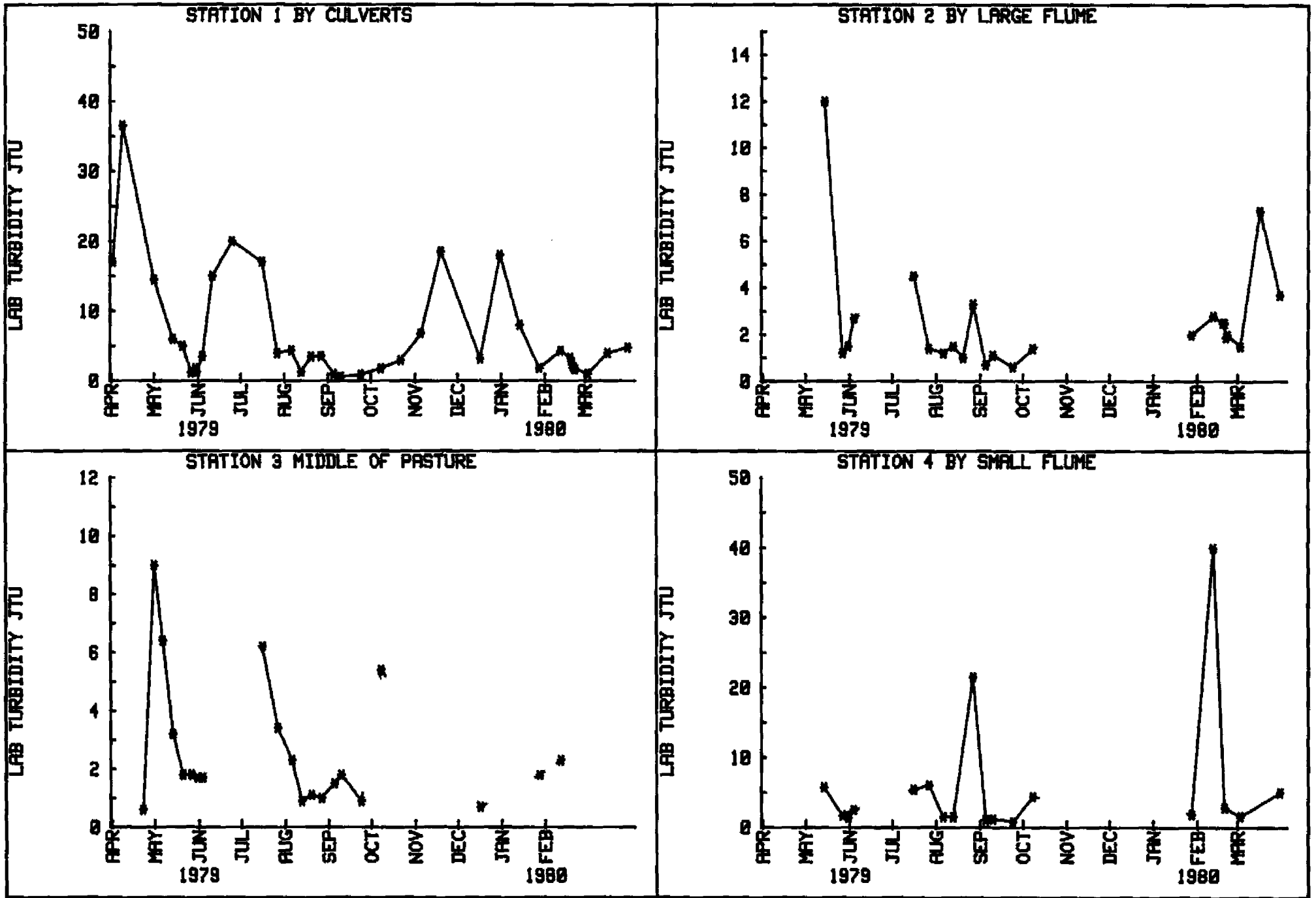


Figure III-37 LAB TURBIDITY FOR ASH SLOUGH

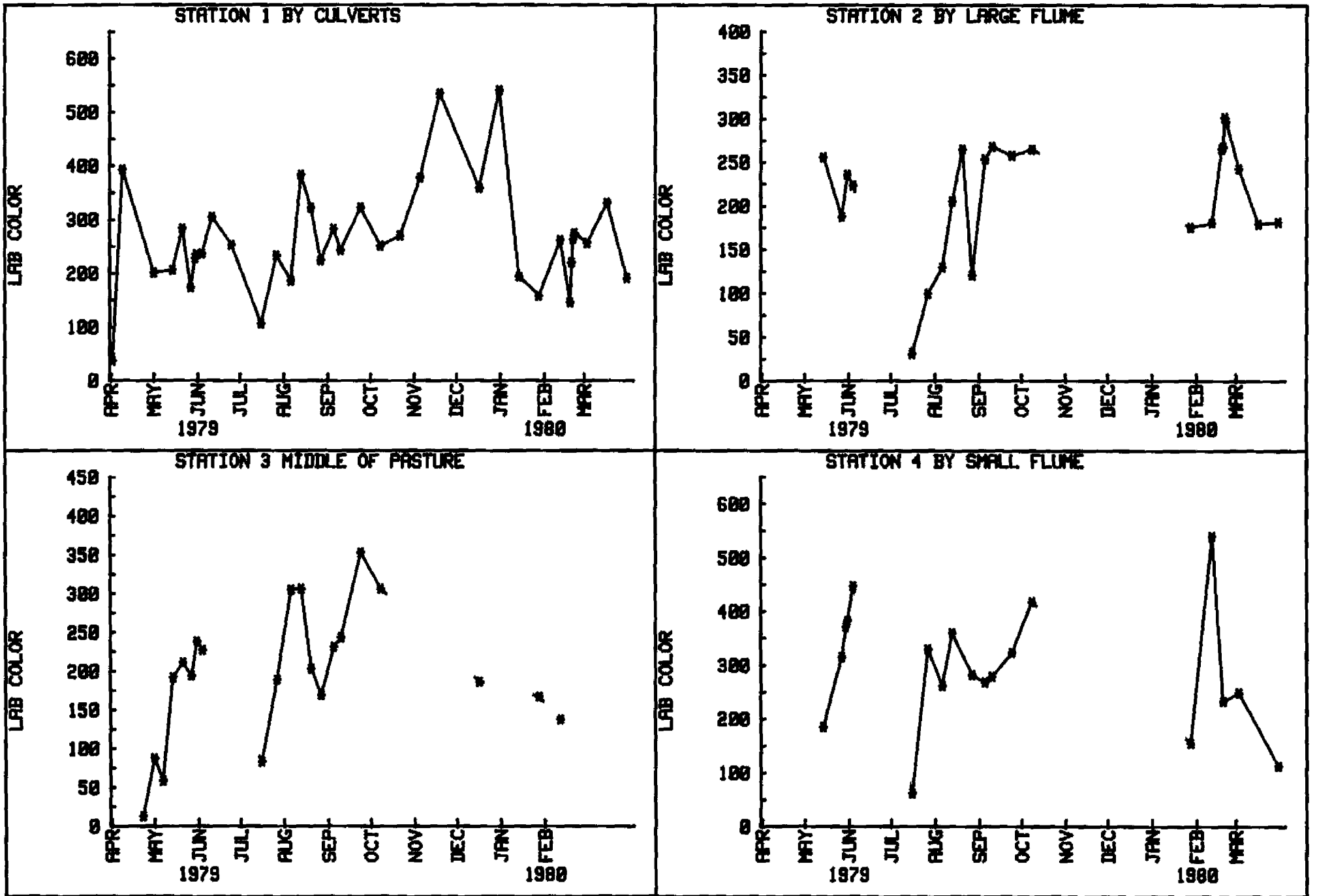


Figure III-38 LAB COLOR FOR ASH SLOUGH

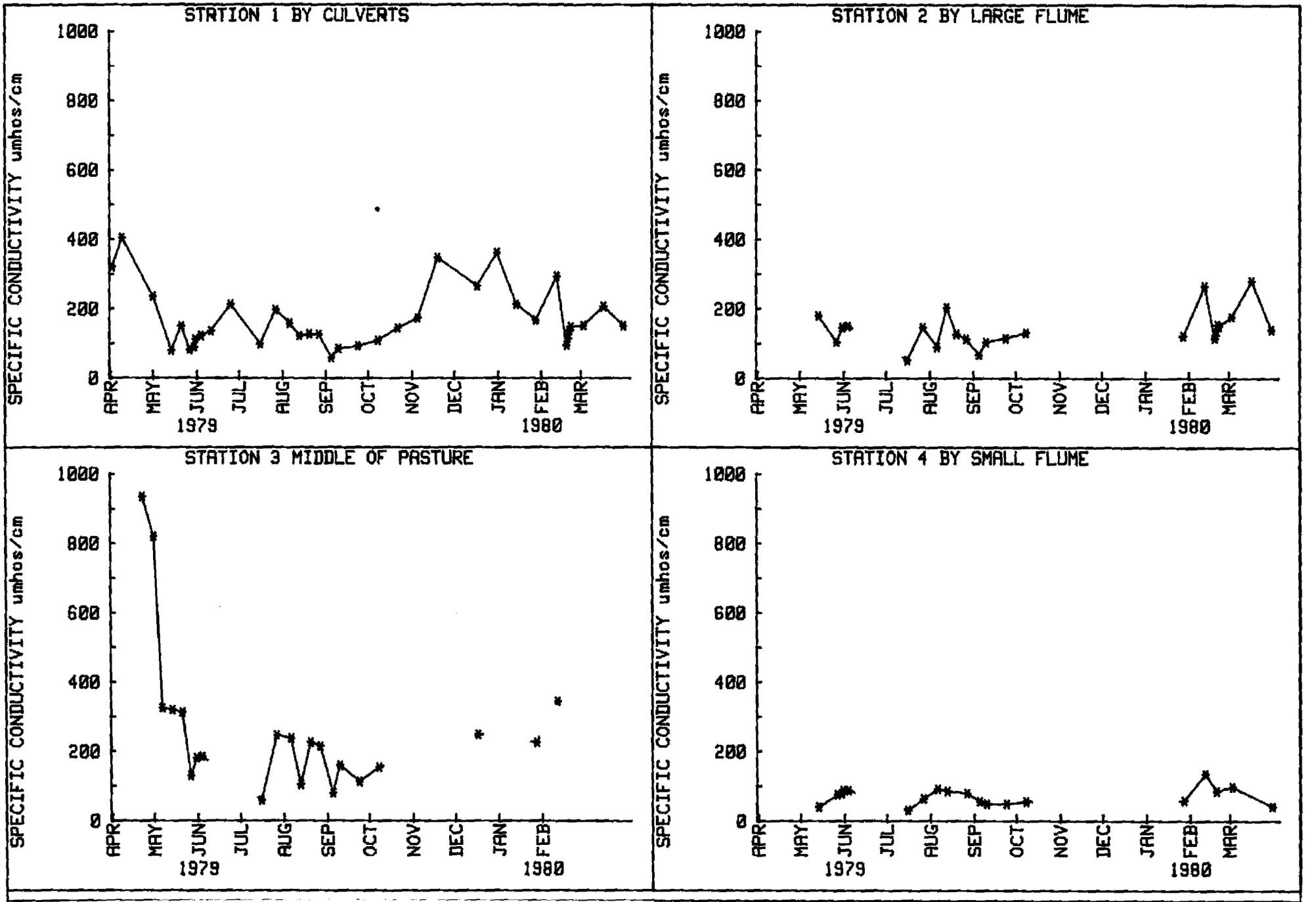


Figure III-39 LAB CONDUCTIVITY FOR ASH SLOUGH

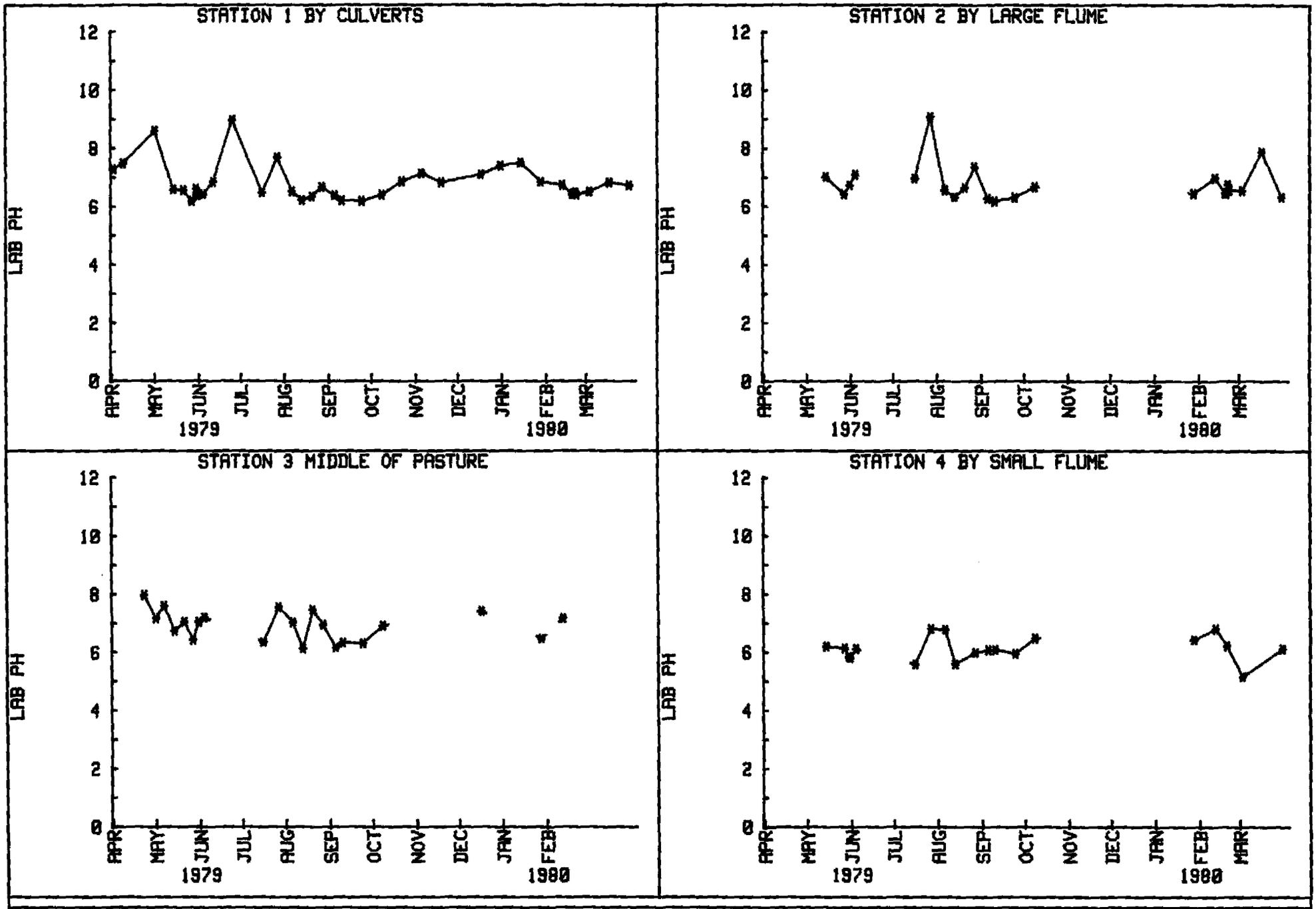


Figure III-40 LAB PH FOR ASH SLOUGH

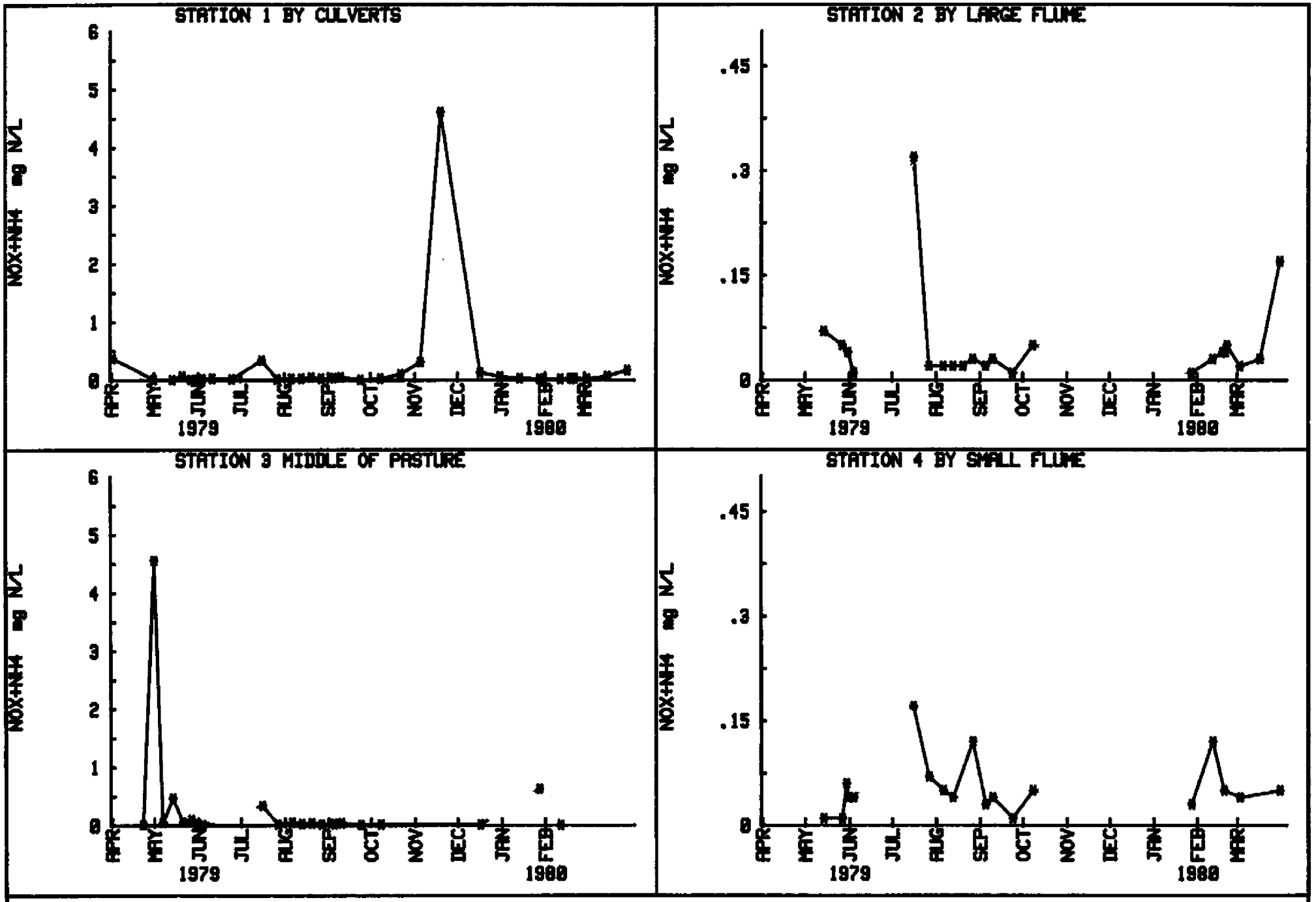


Figure III-41 NOX+NH4 FOR ASH SLOUGH

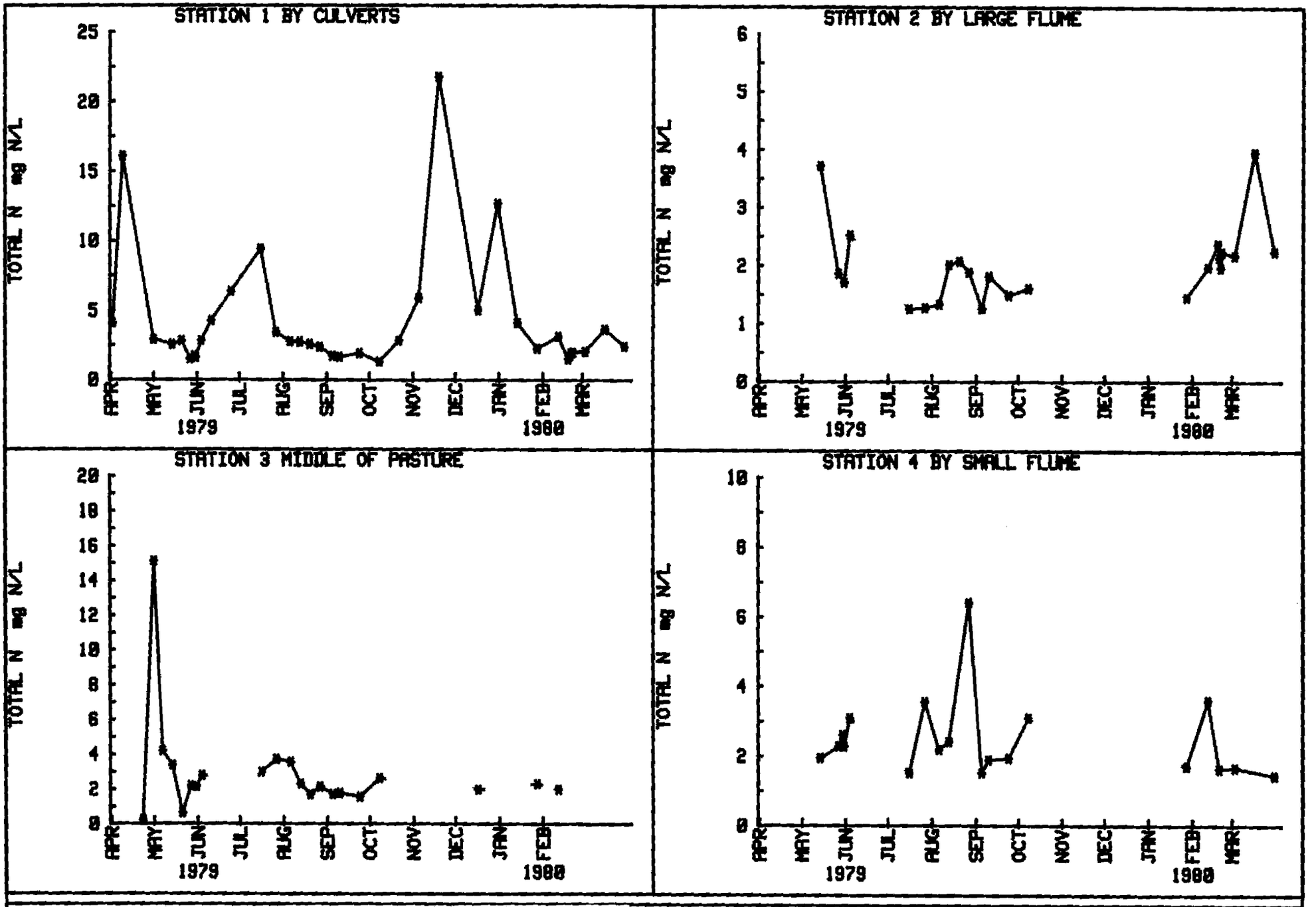


Figure III-42 TOTAL NITROGEN FOR ASH SLOUGH

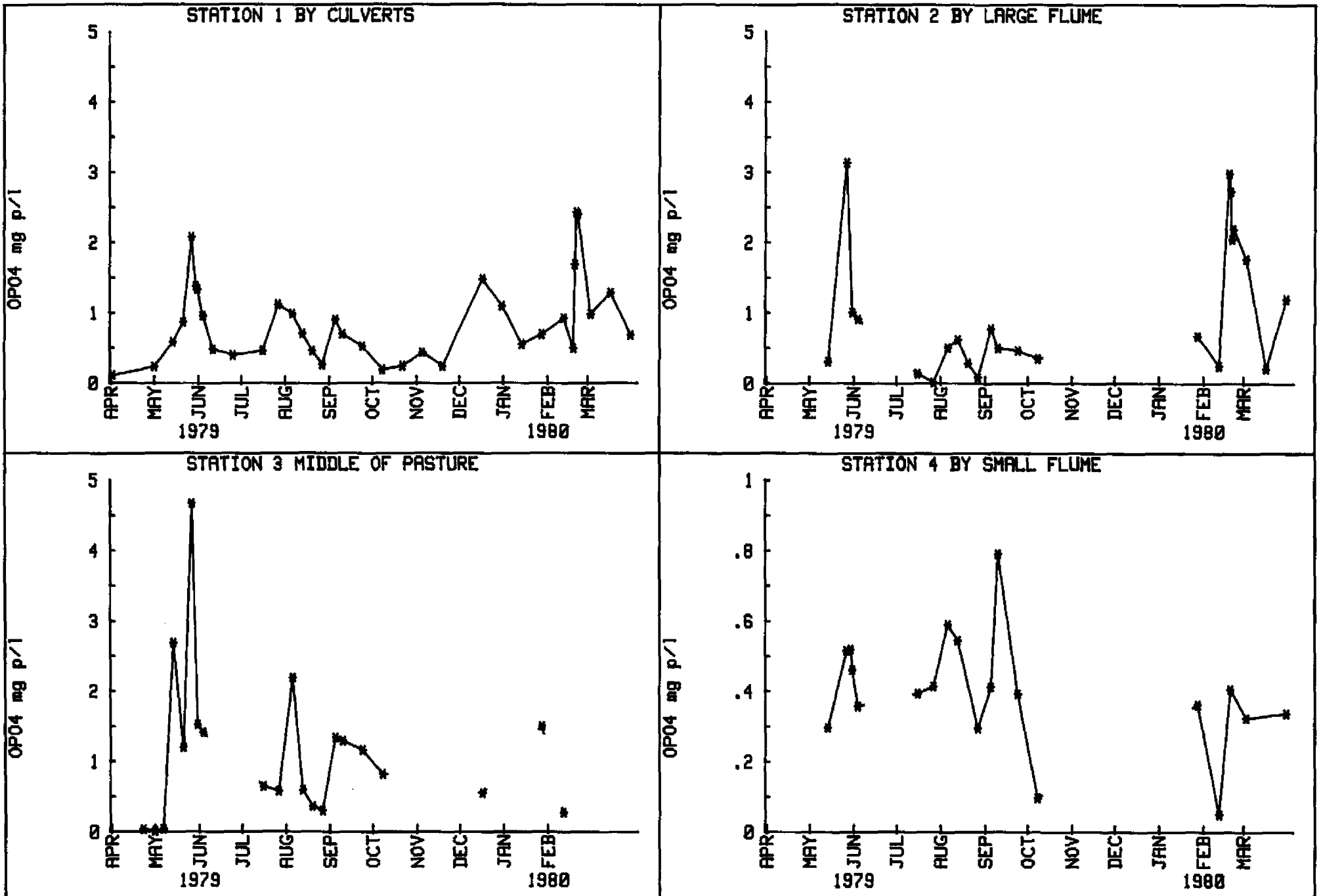


Figure III-43 ORTHO PHOSPHORUS FOR ASH SLOUGH

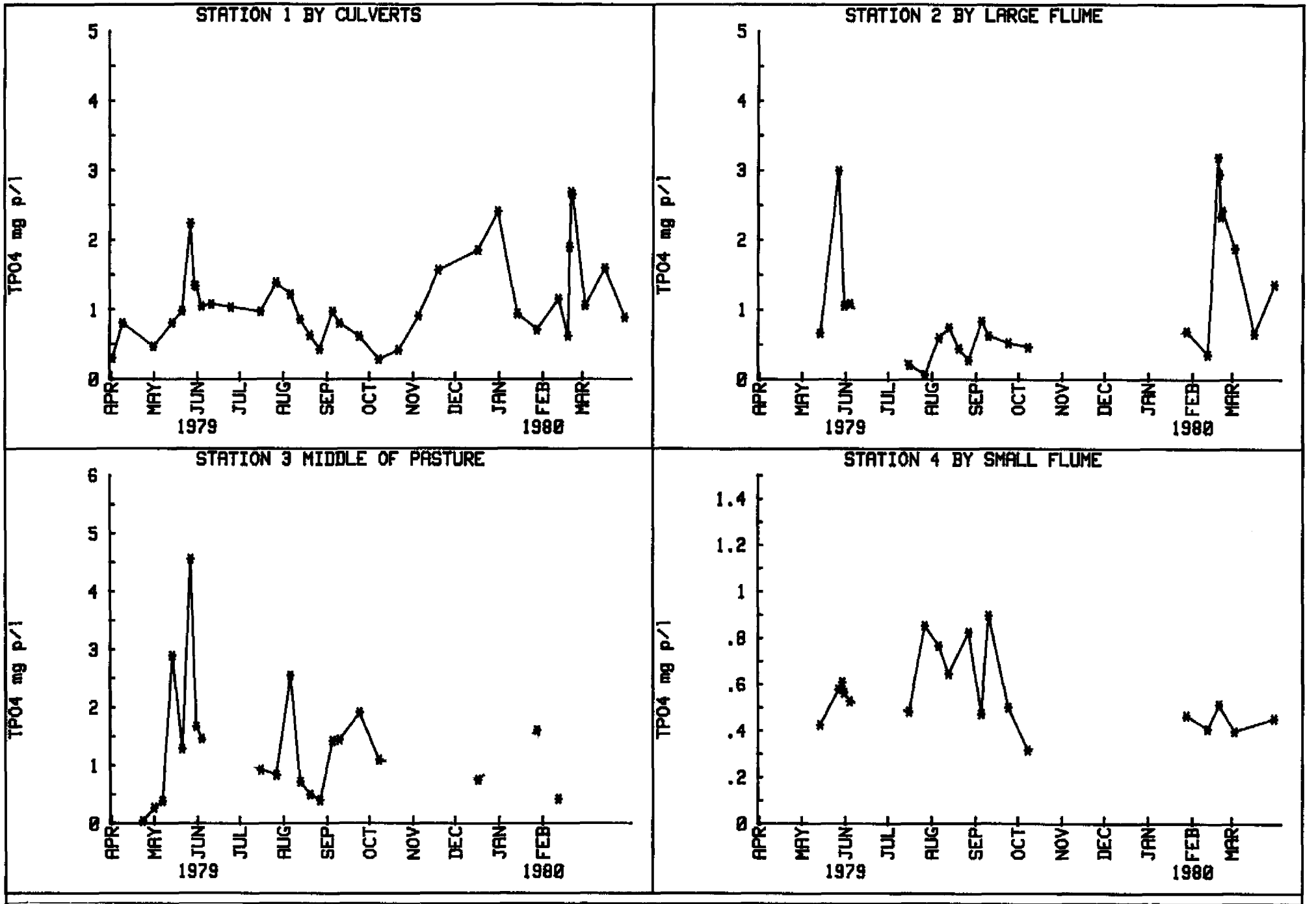


Figure III-44 TOTAL PHOSPHORUS FOR ASH SLOUGH

Figure III-45

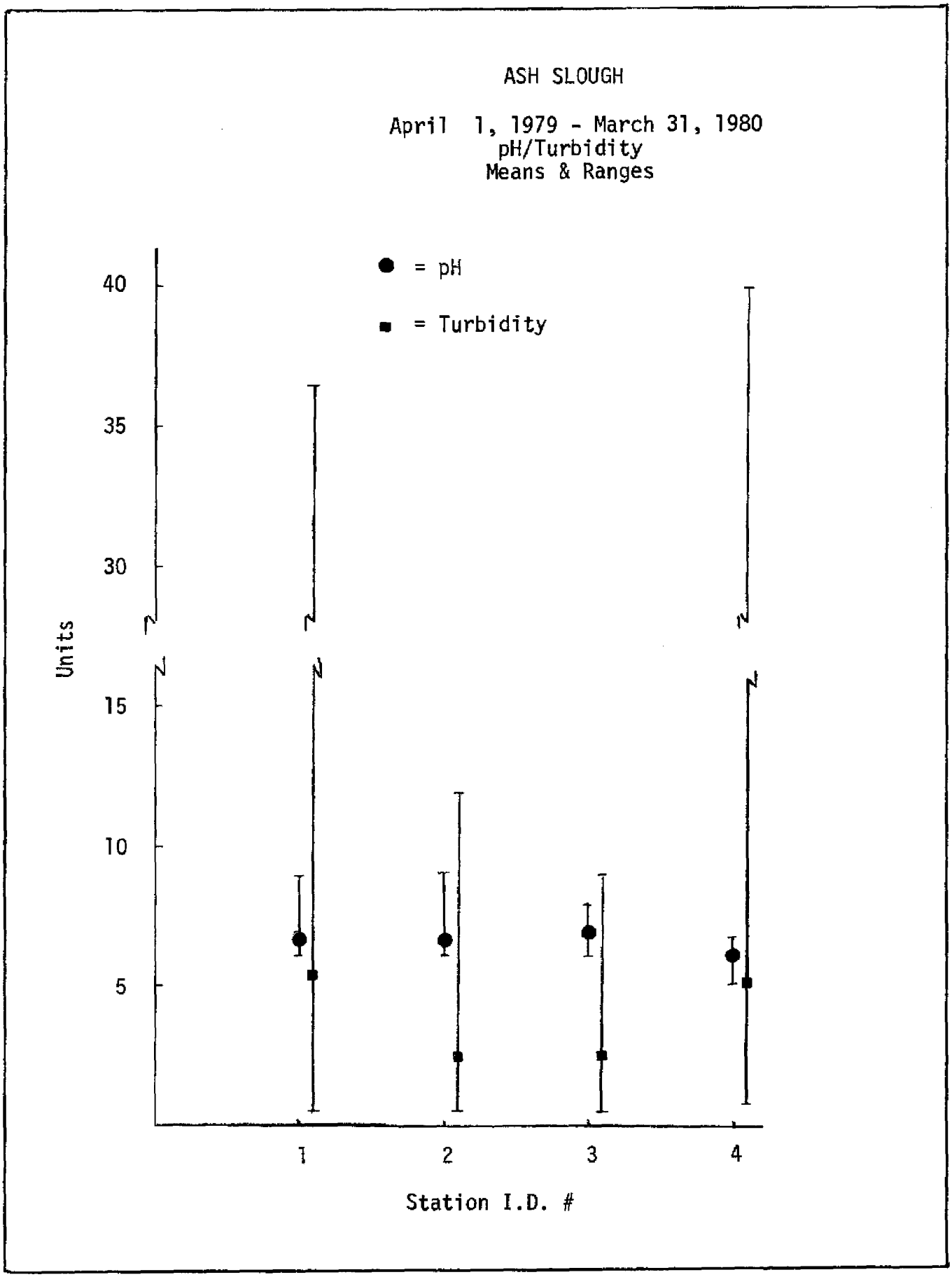


Figure III-46

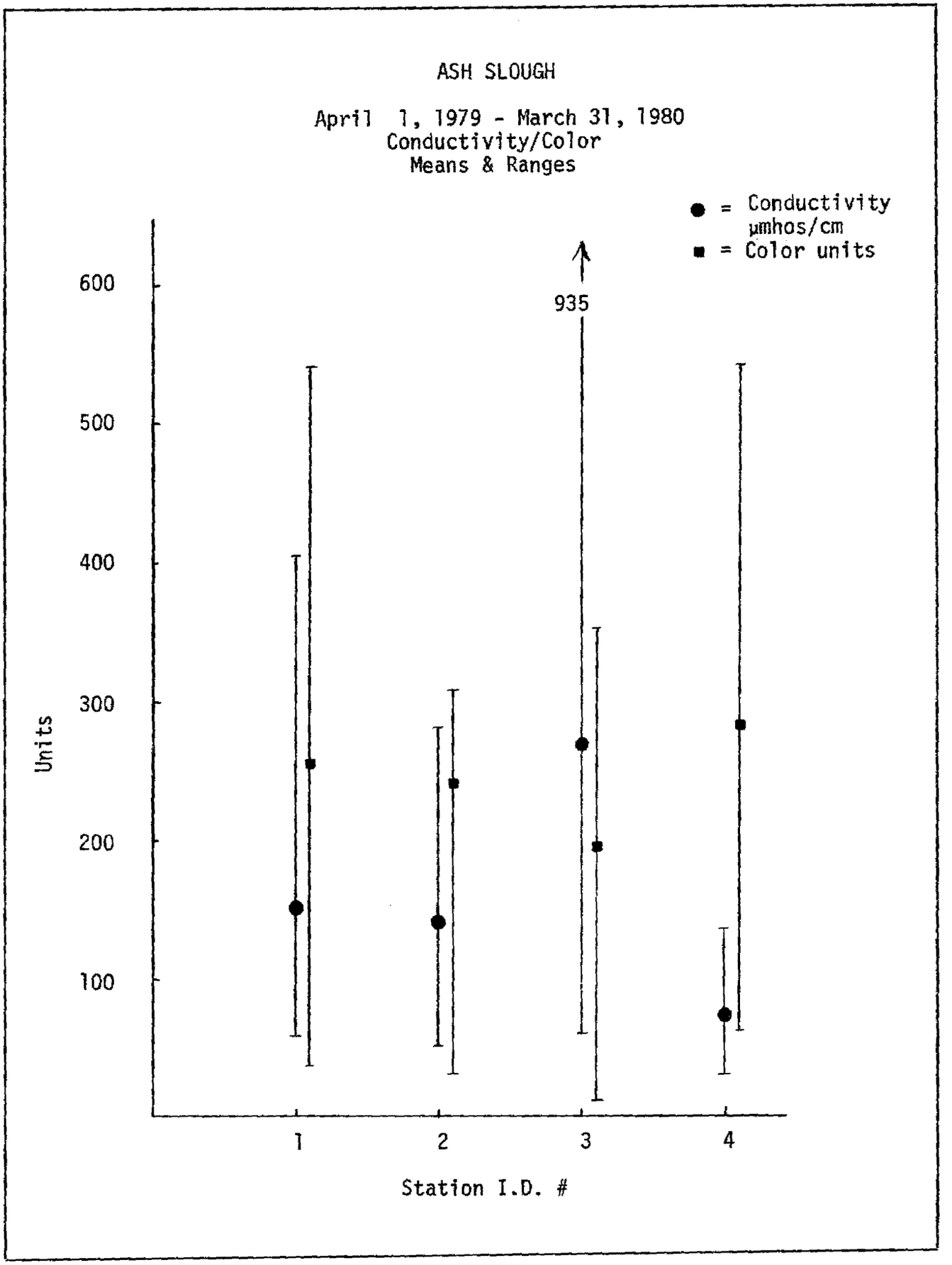


Figure III-47

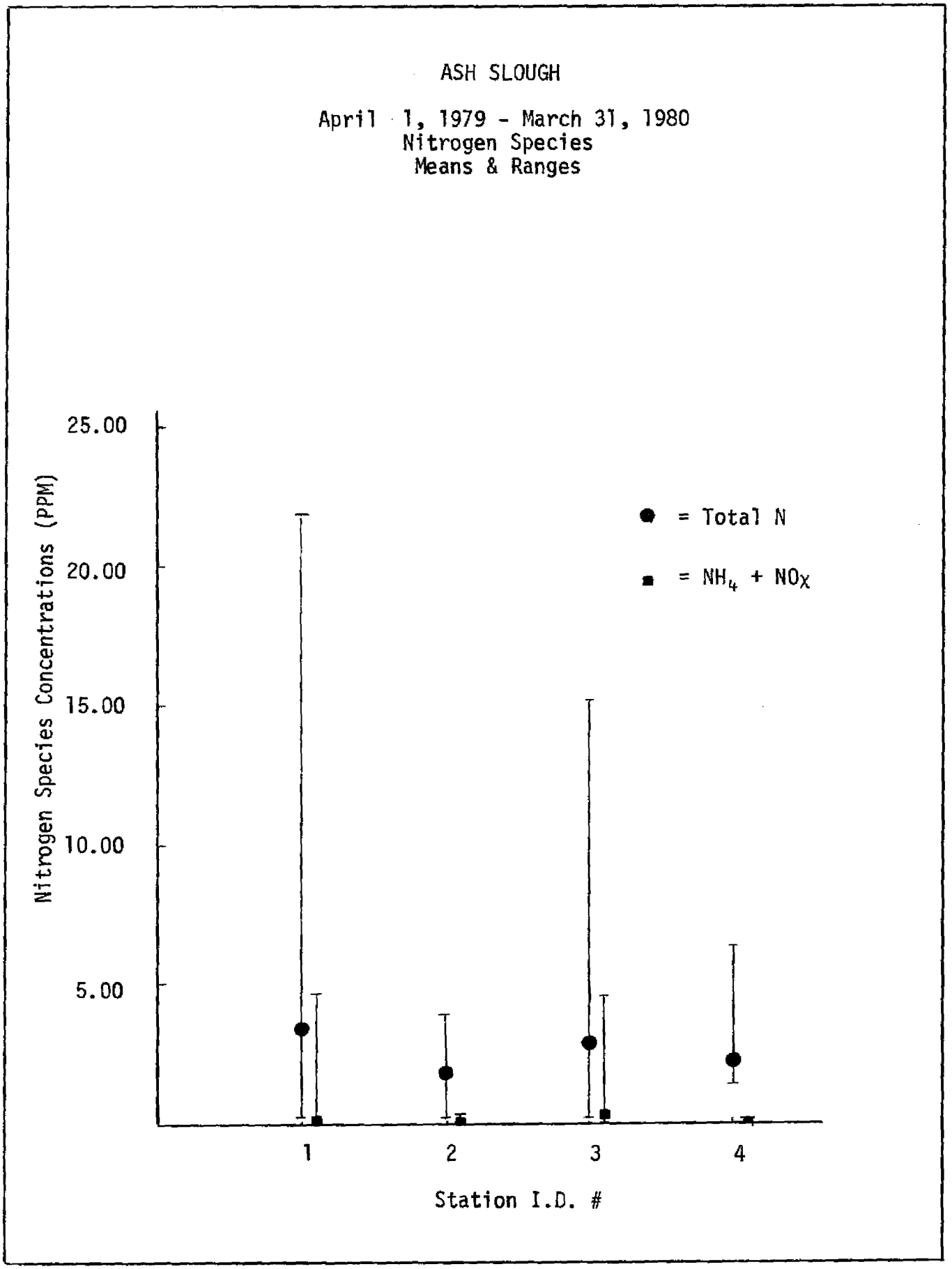
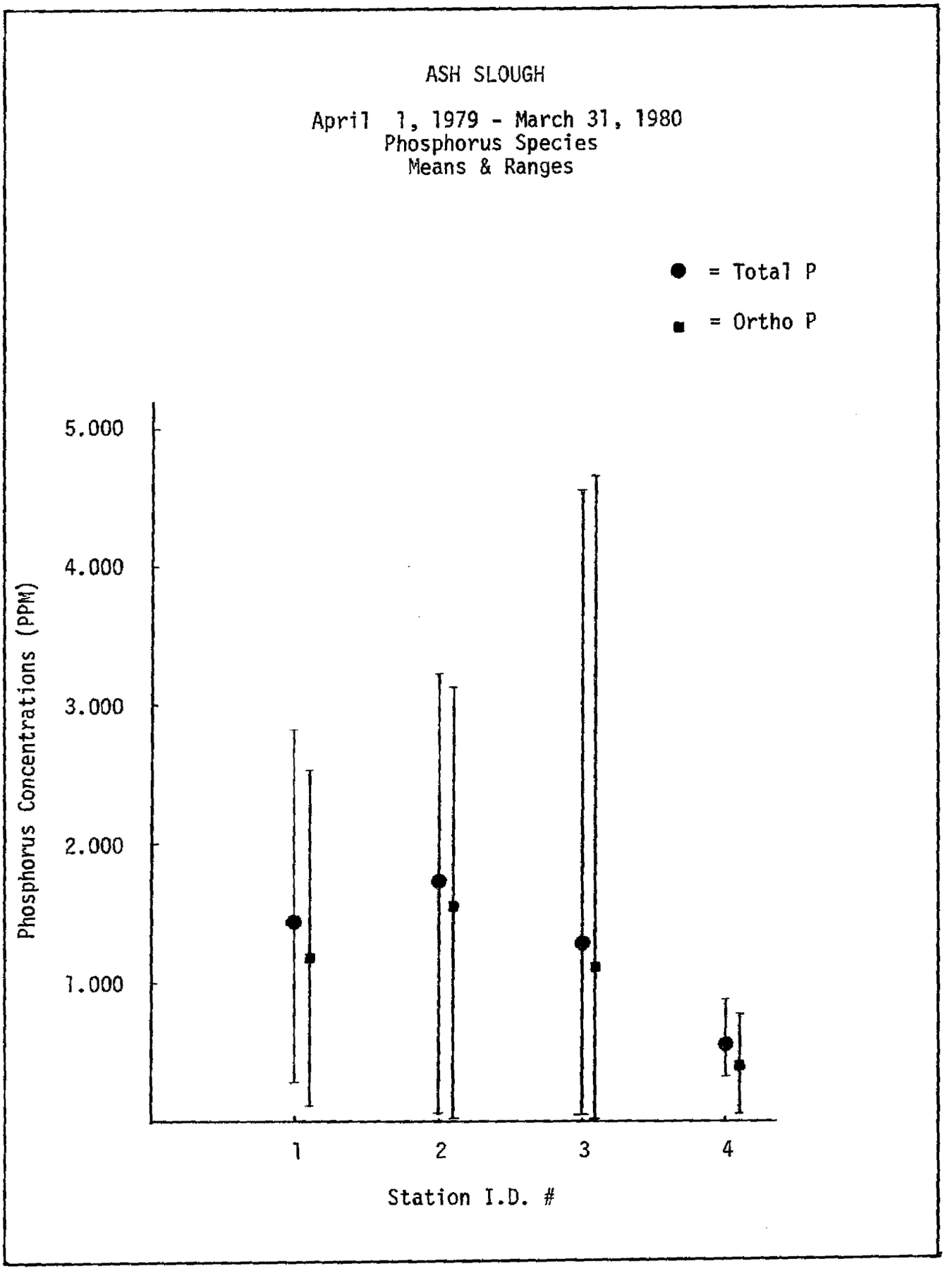


Figure III-48



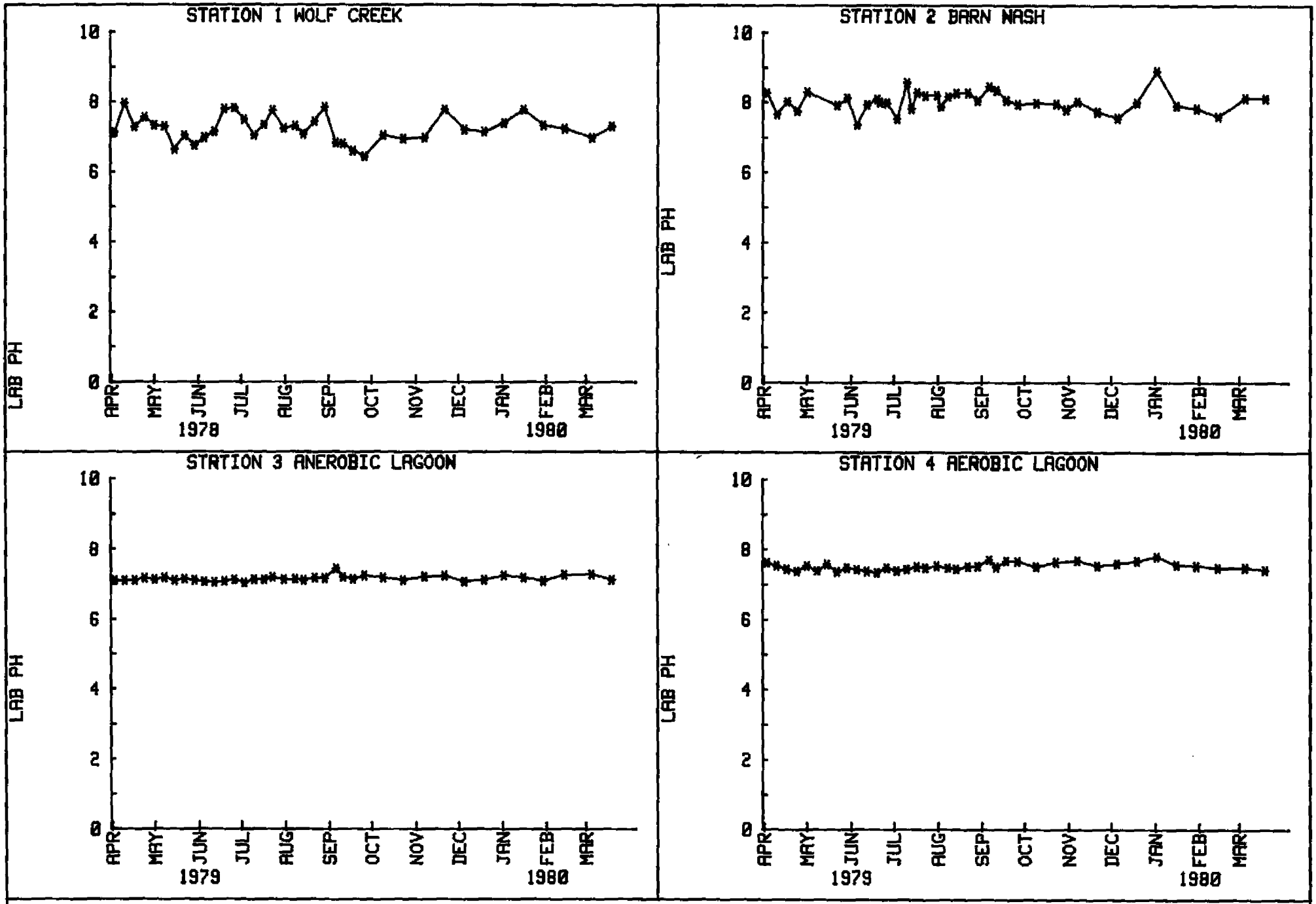
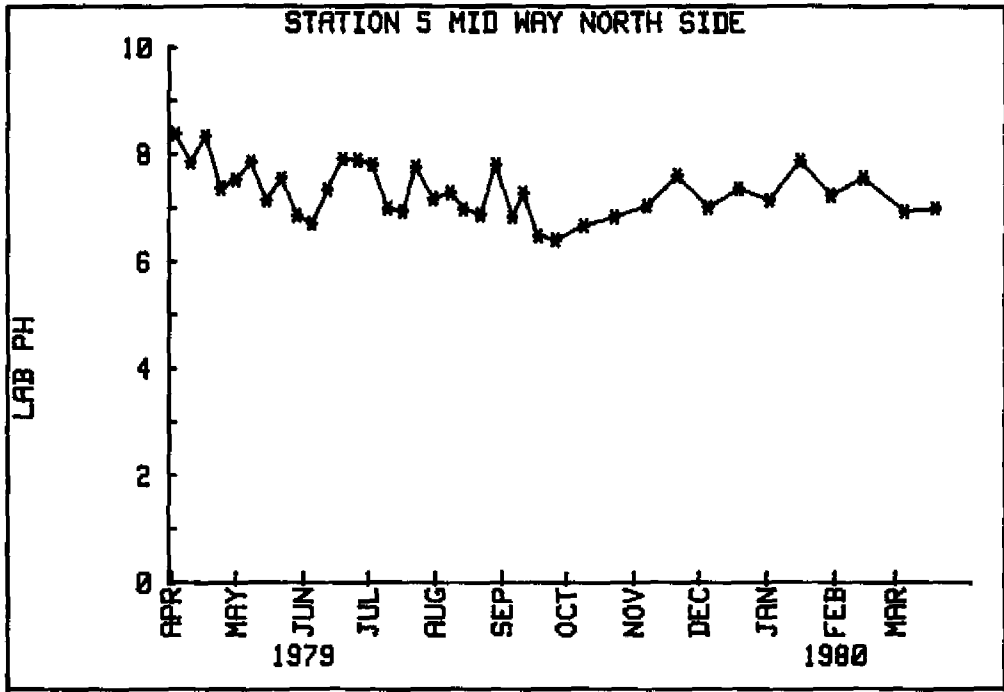


Figure III-49a LAB PH FOR SEZ DAIRY



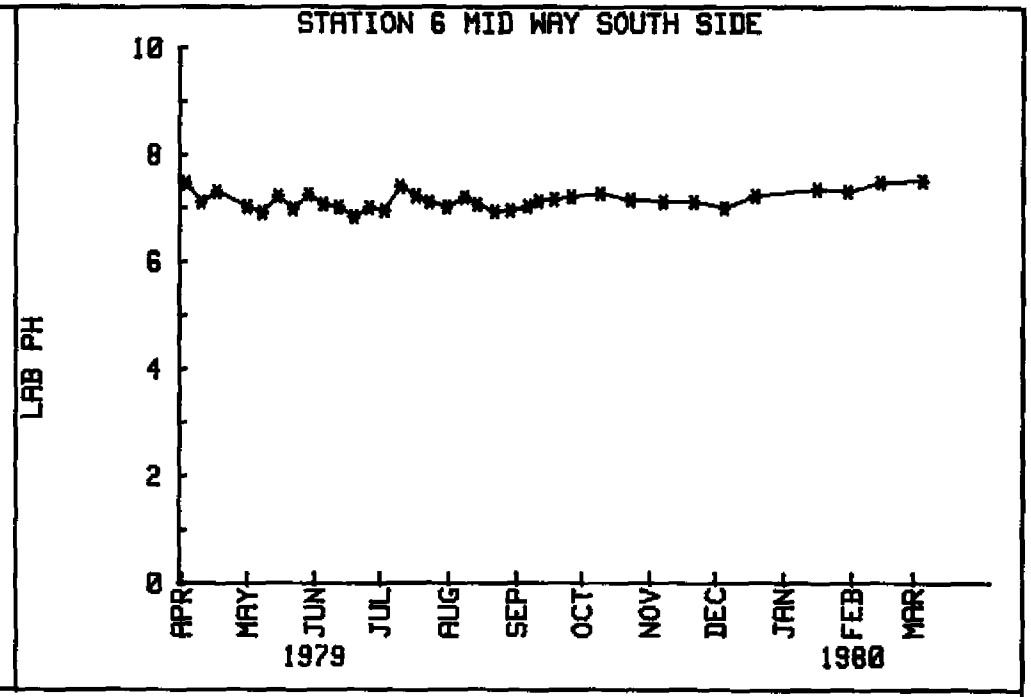


Figure III-49b LAB PH FOR SEZ DAIRY

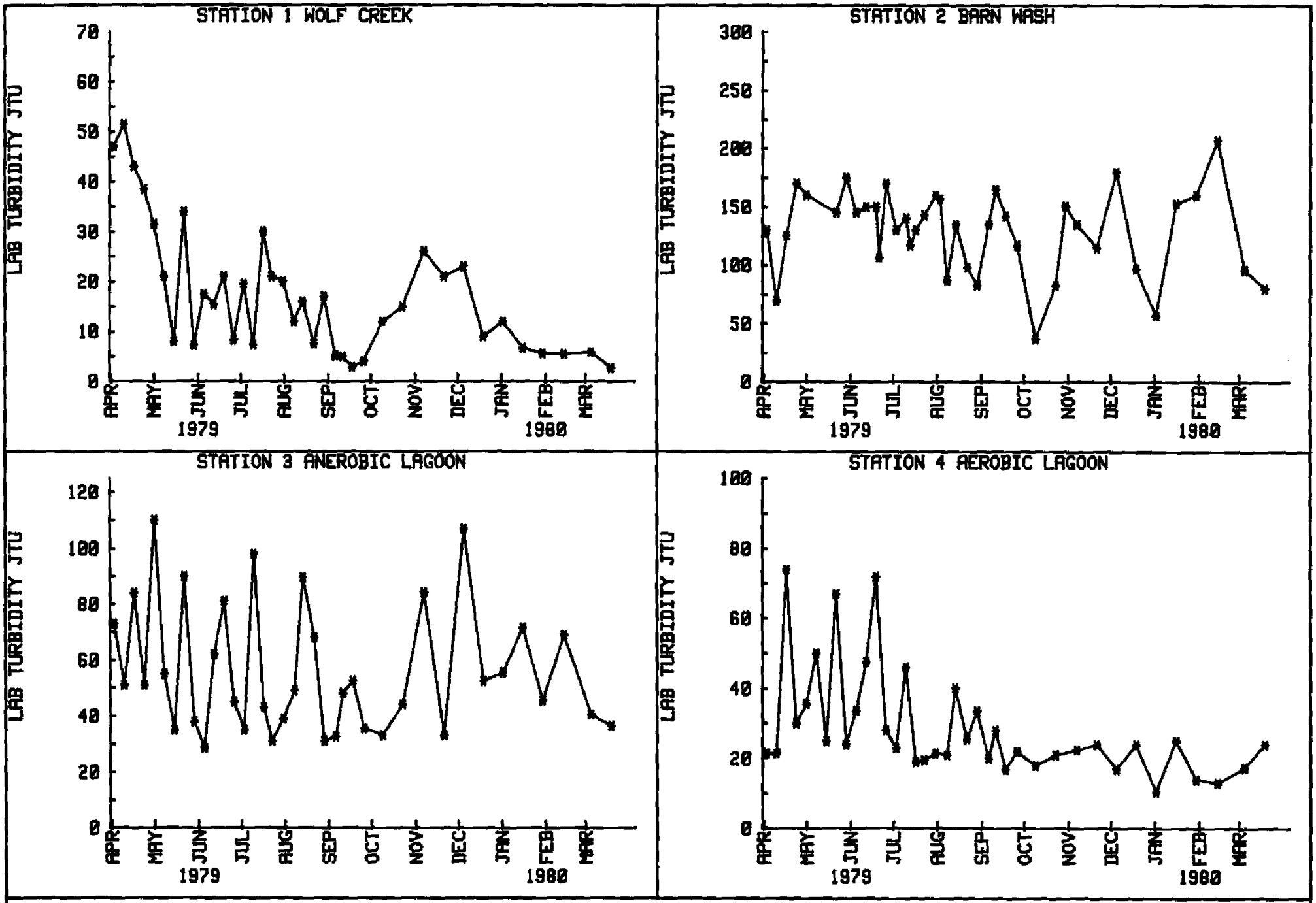
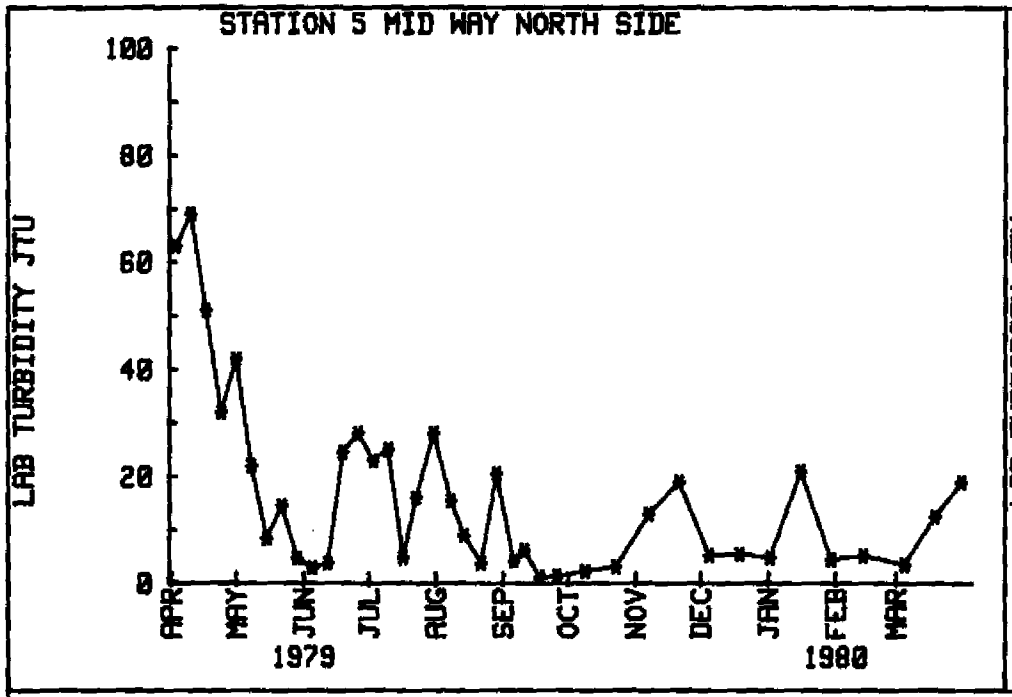


Figure III-50a LAB TURBIDITY FOR SEZ DAIRY



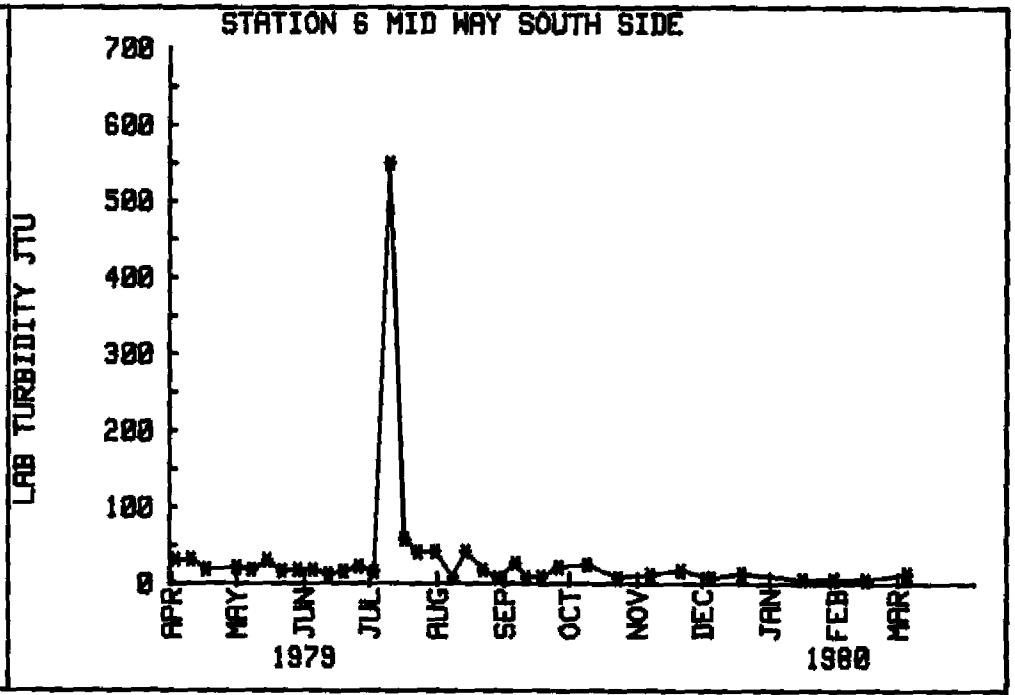


Figure III-50b LAB TURBIDITY FOR SEZ DAIRY

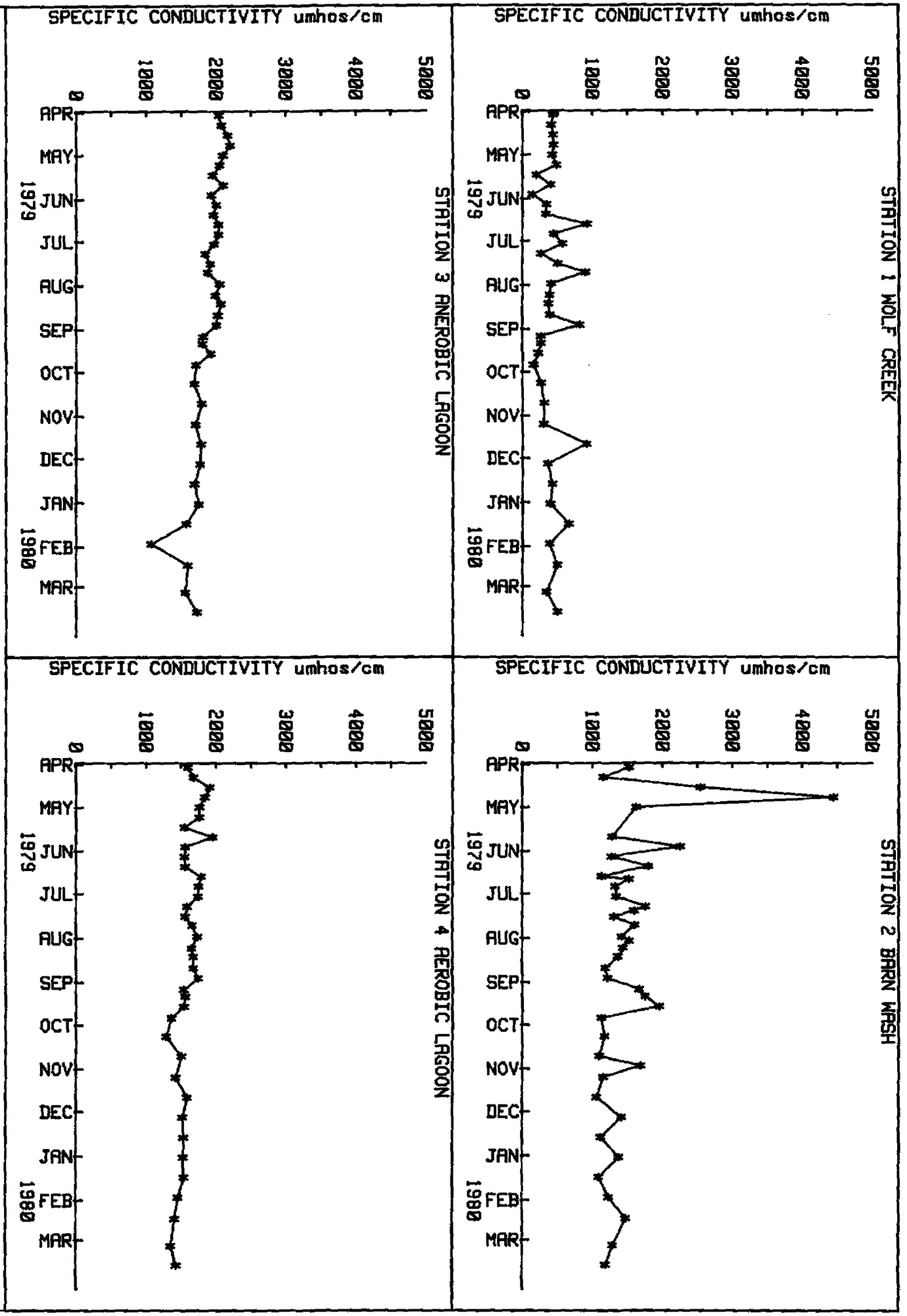
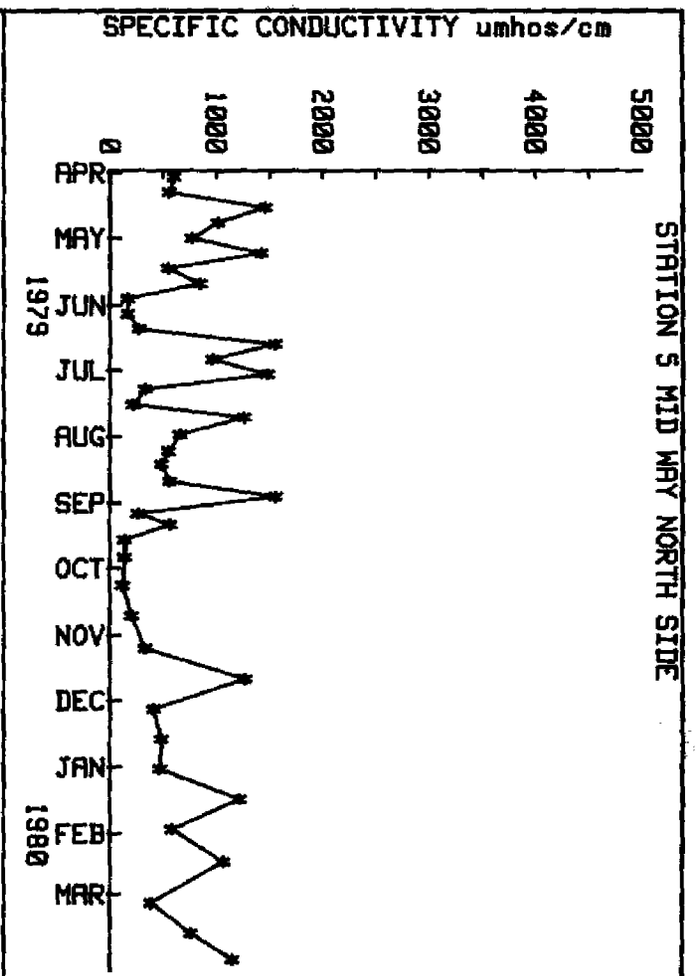


Figure III-51a LAB CONDUCTIVITY FOR SEZ DAIRY



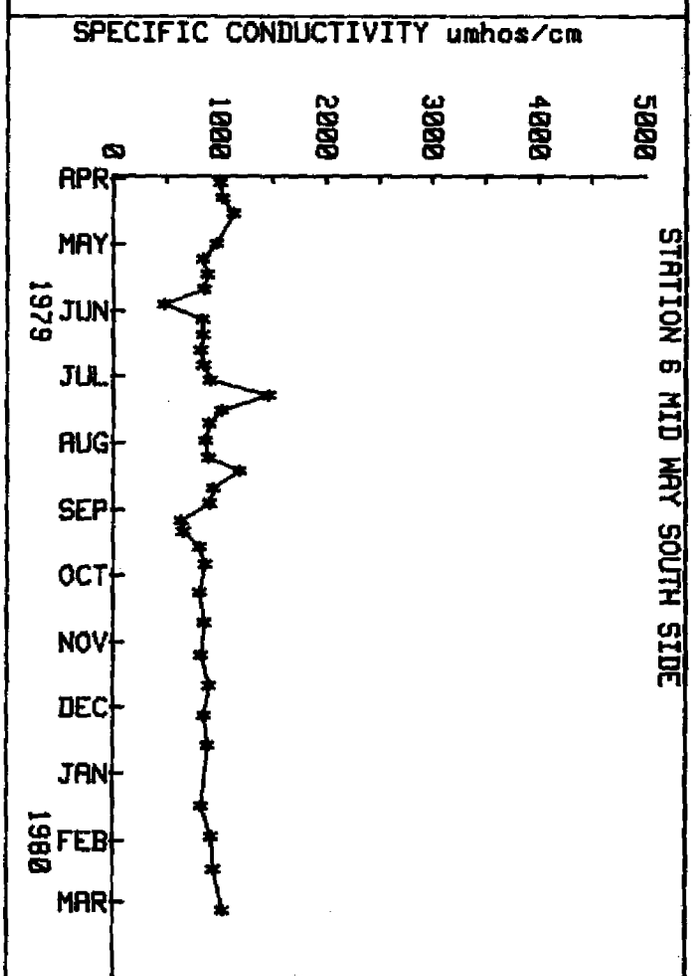


Figure III-51b LAB CONDUCTIVITY FOR SEZ DAIRY

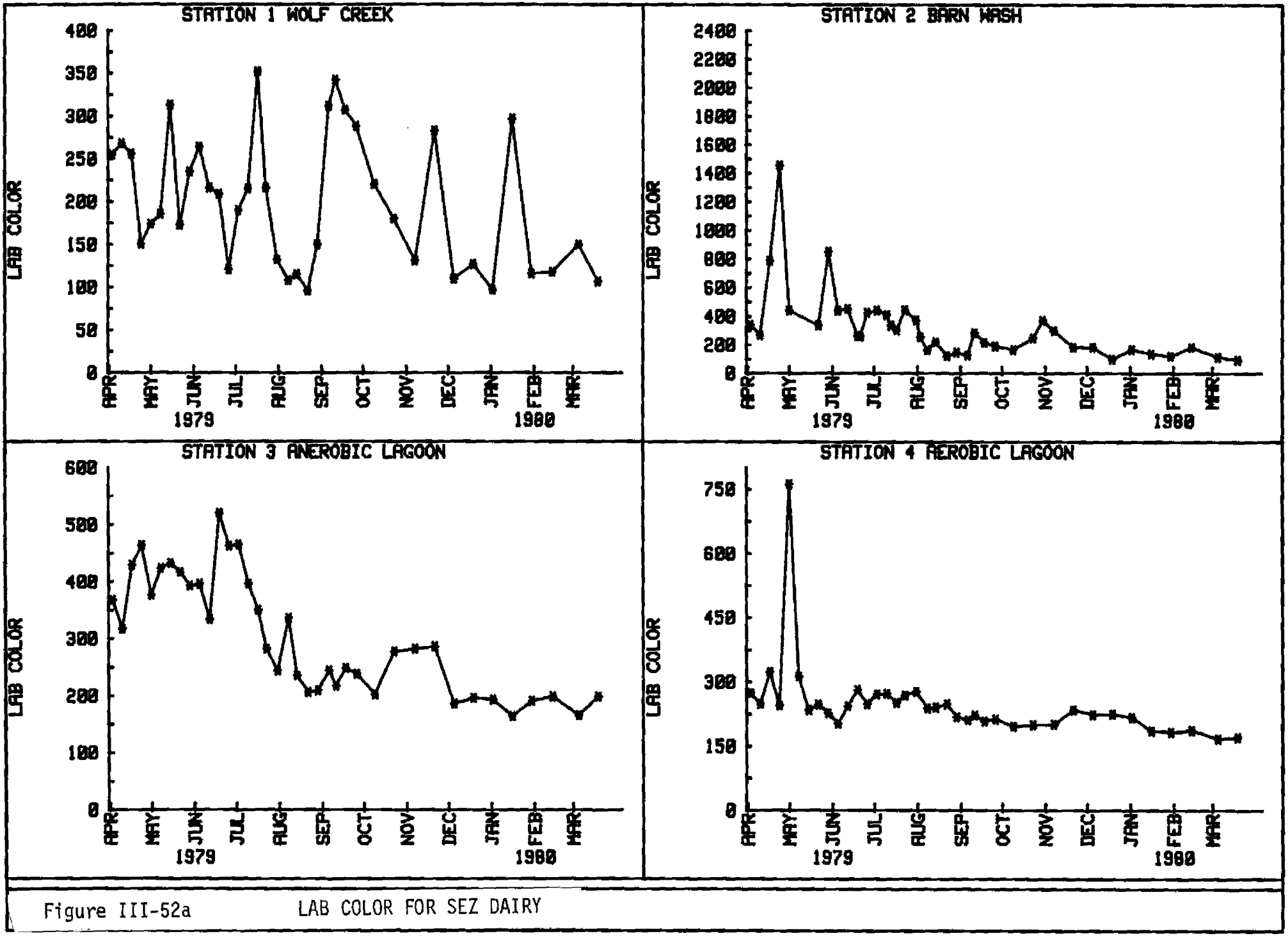


Figure III-52a LAB COLOR FOR SEZ DAIRY

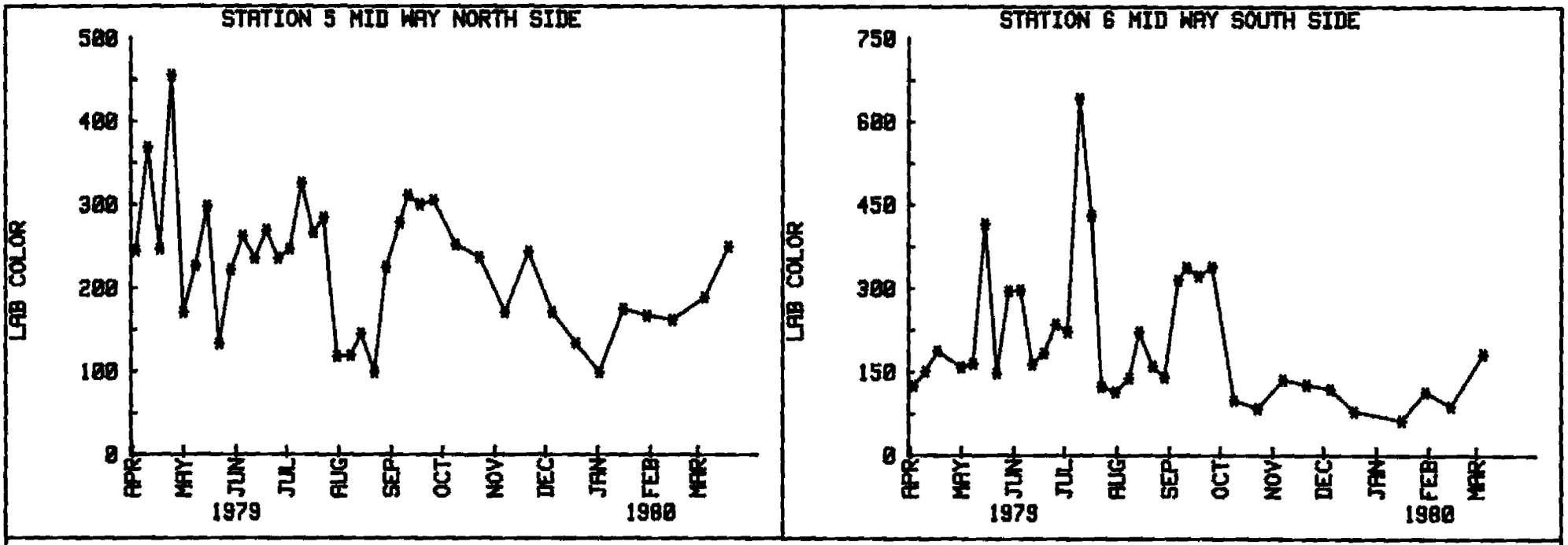


Figure III-52b LAB COLOR FOR SEZ DAIRY

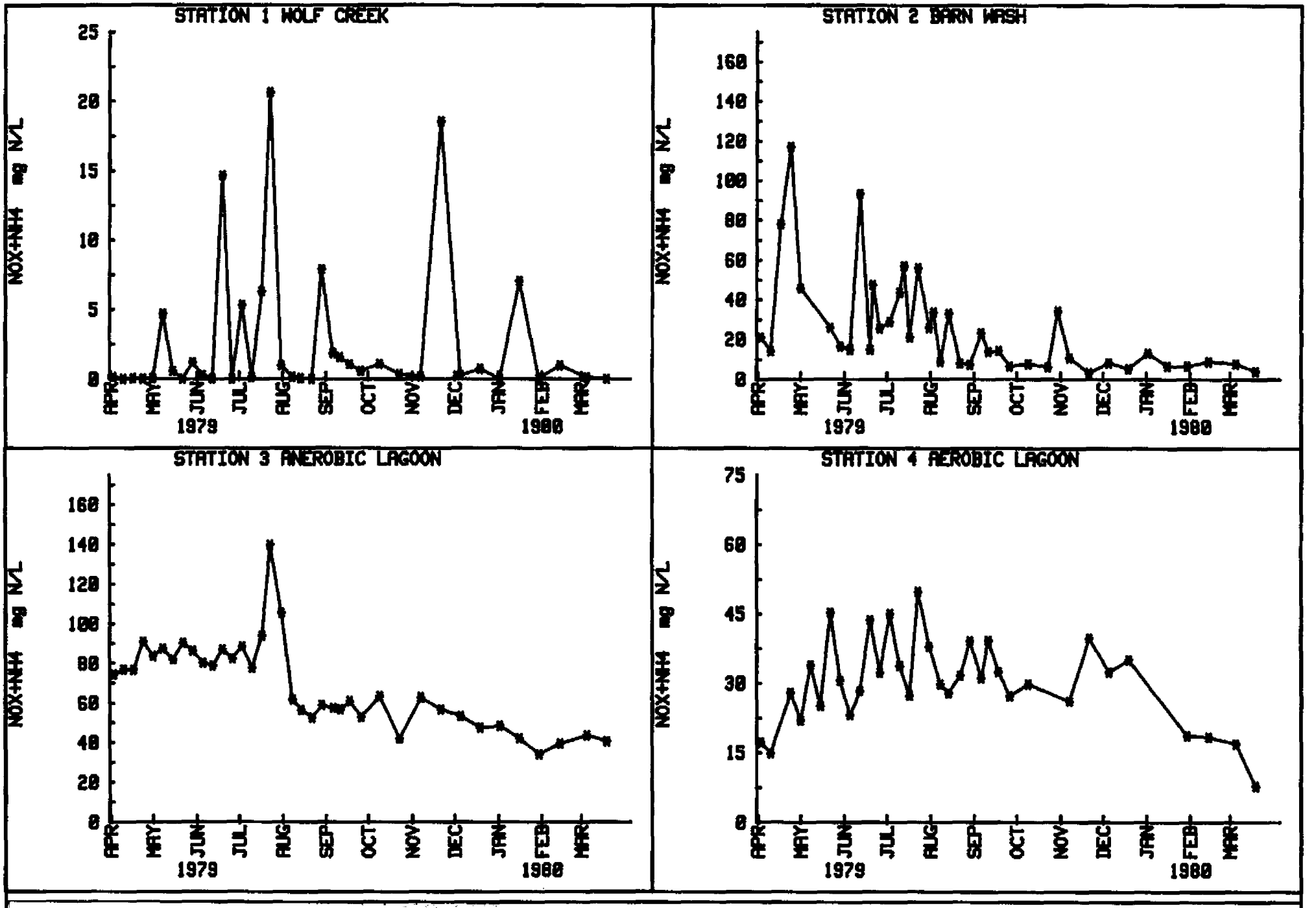


Figure III-53a NOX+NH4 FOR SEZ DAIRY

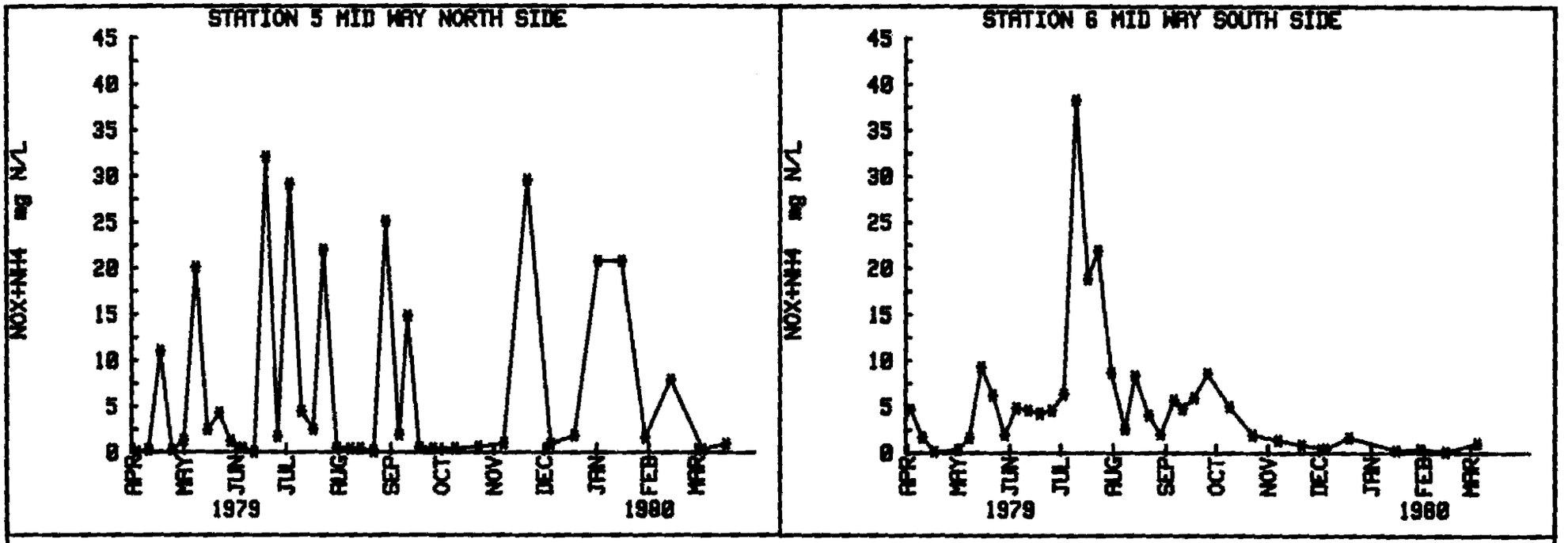


Figure III-53b NOX+NH4 FOR SEZ DAIRY

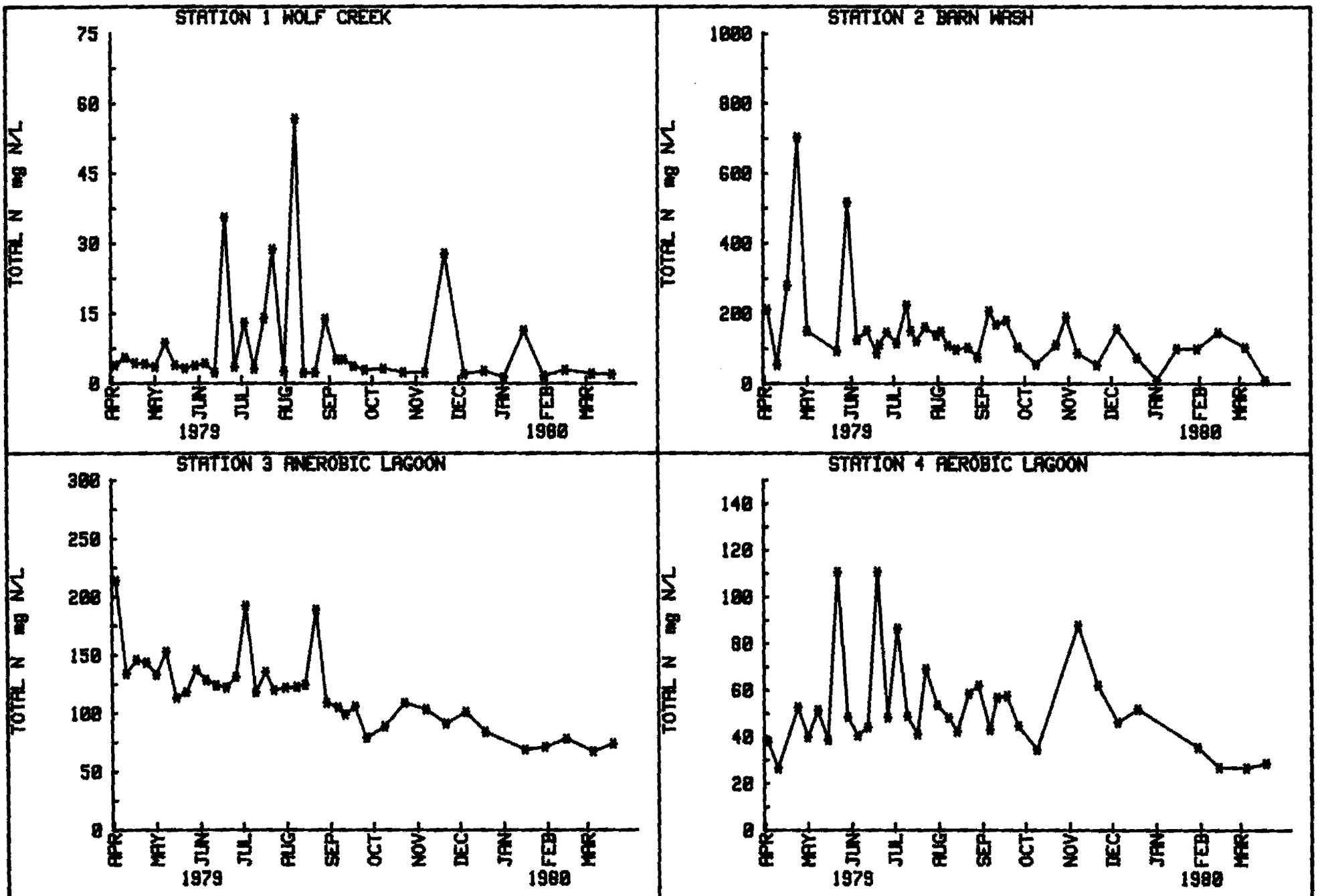
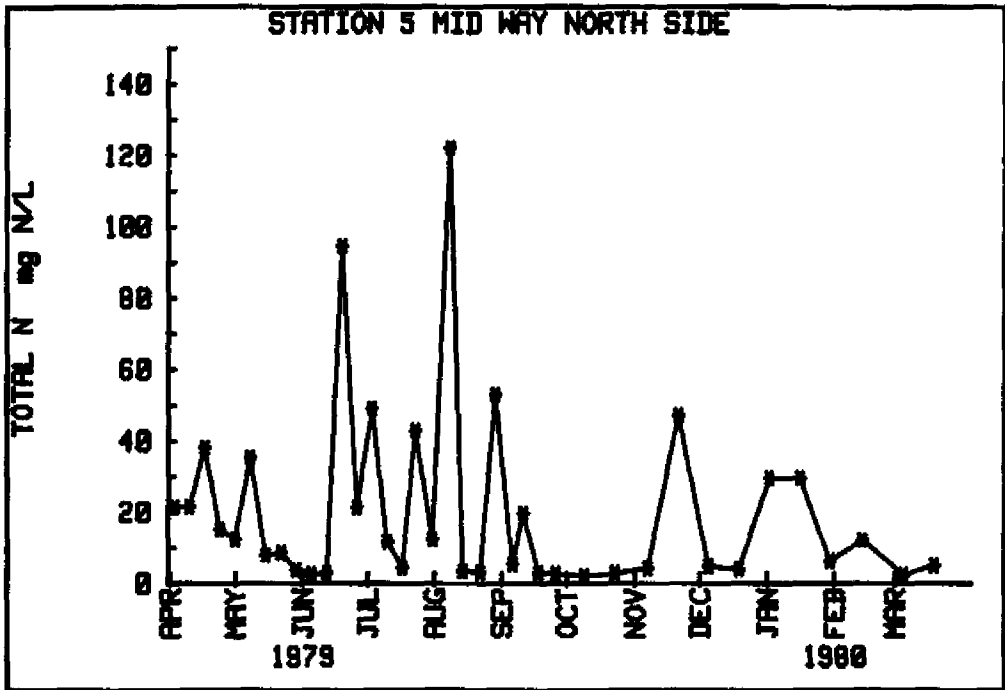


Figure III-54a TOTAL NITROGEN FOR SEZ DAIRY



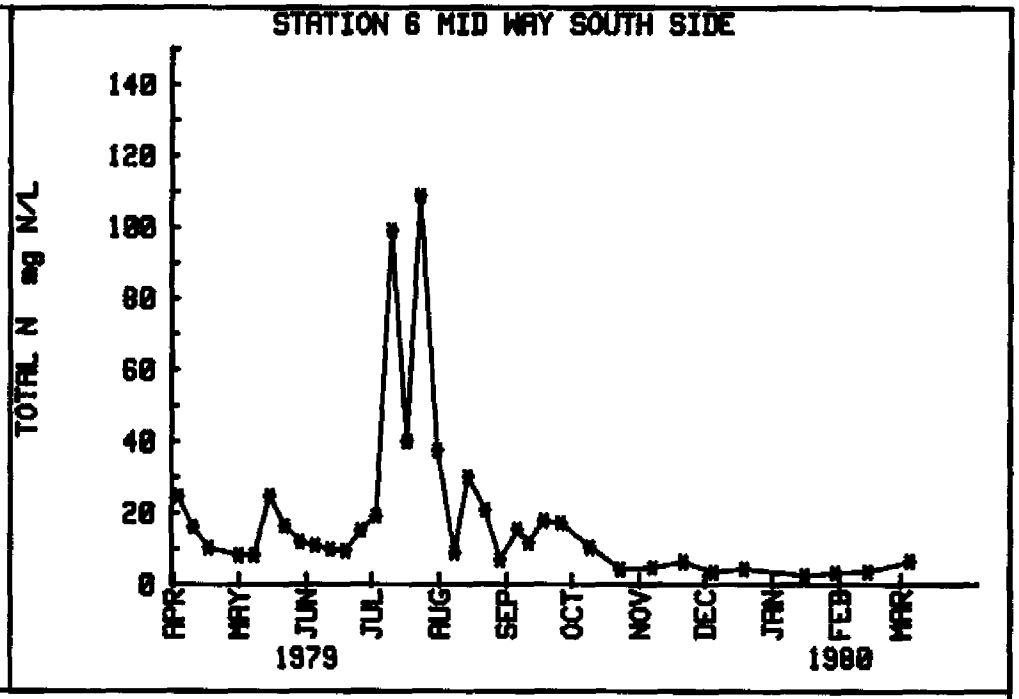


Figure III-54b TOTAL NITROGEN FOR SEZ DAIRY

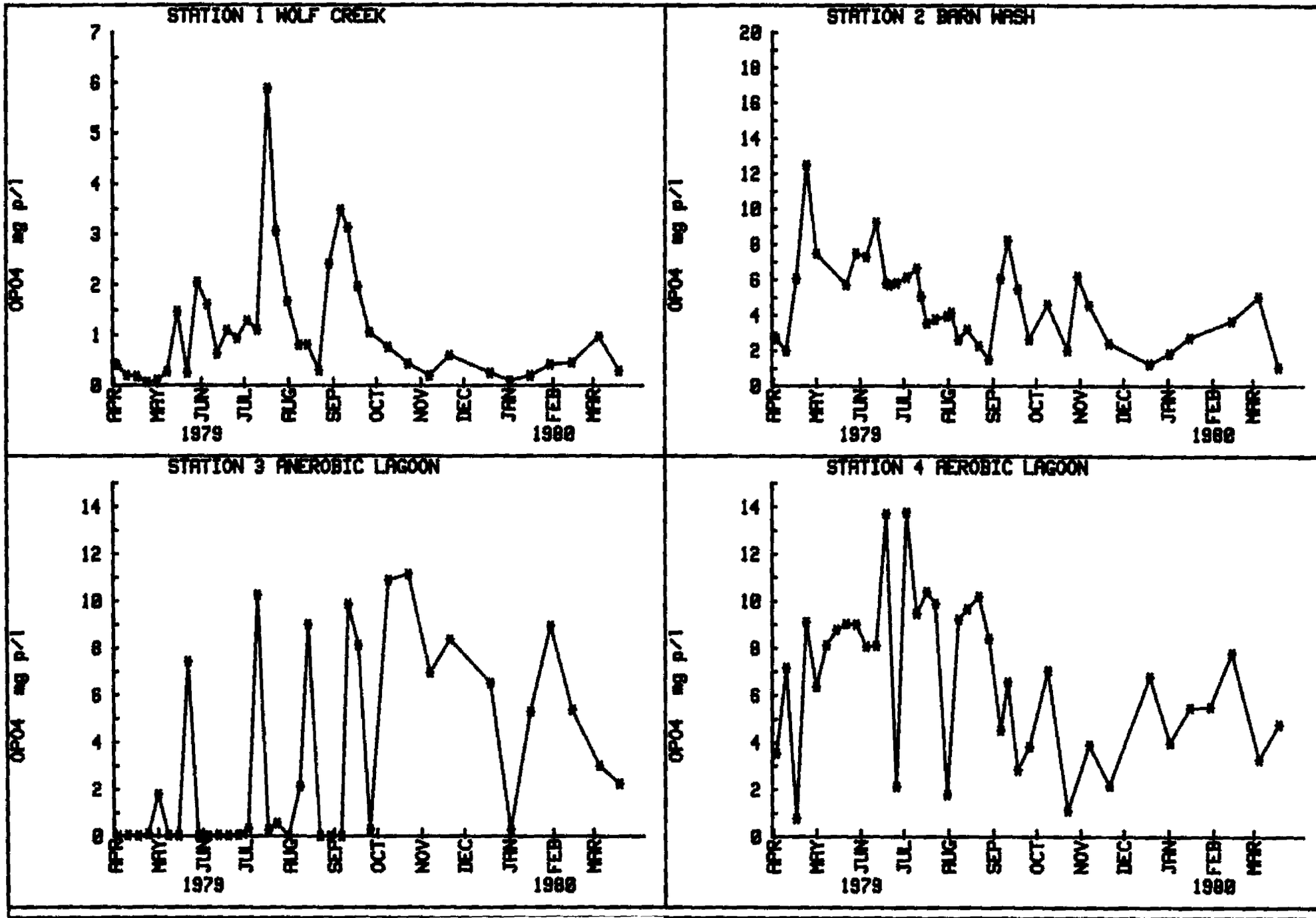
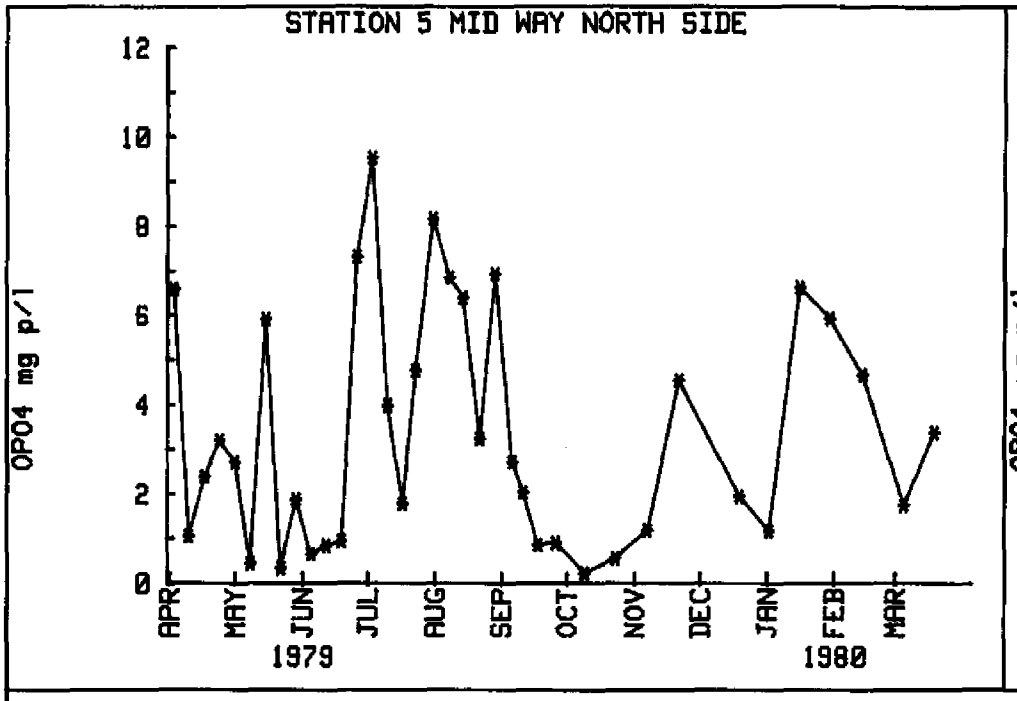


Figure III-55a ORTHO PHOSPHORUS FOR SEZ DAIRY



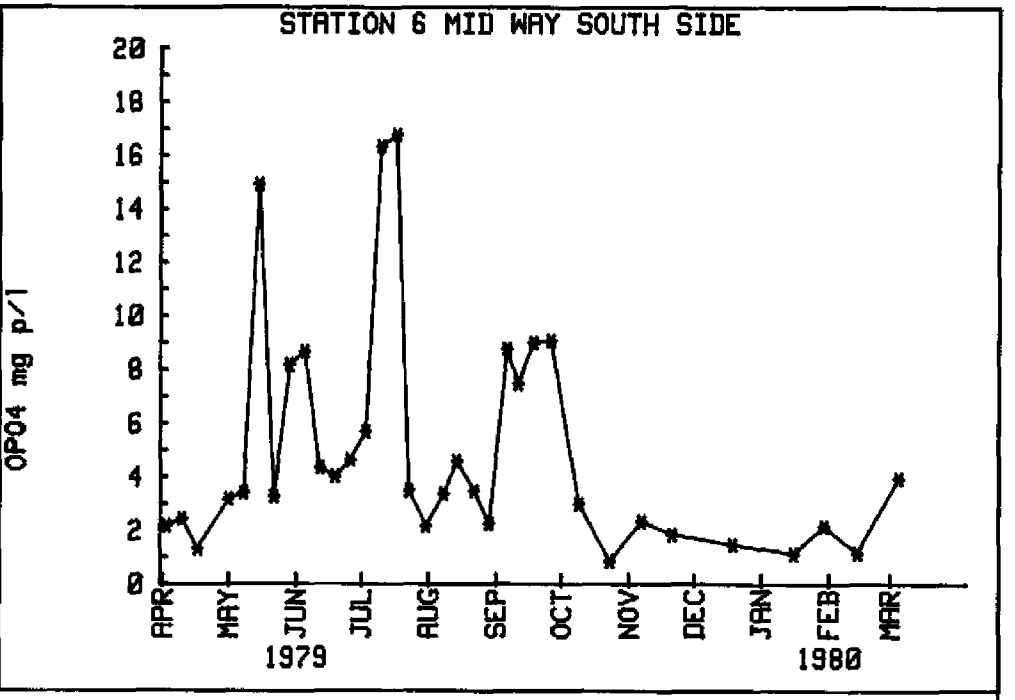


Figure III-55b ORTHO PHOSPHORUS FOR SEZ DAIRY

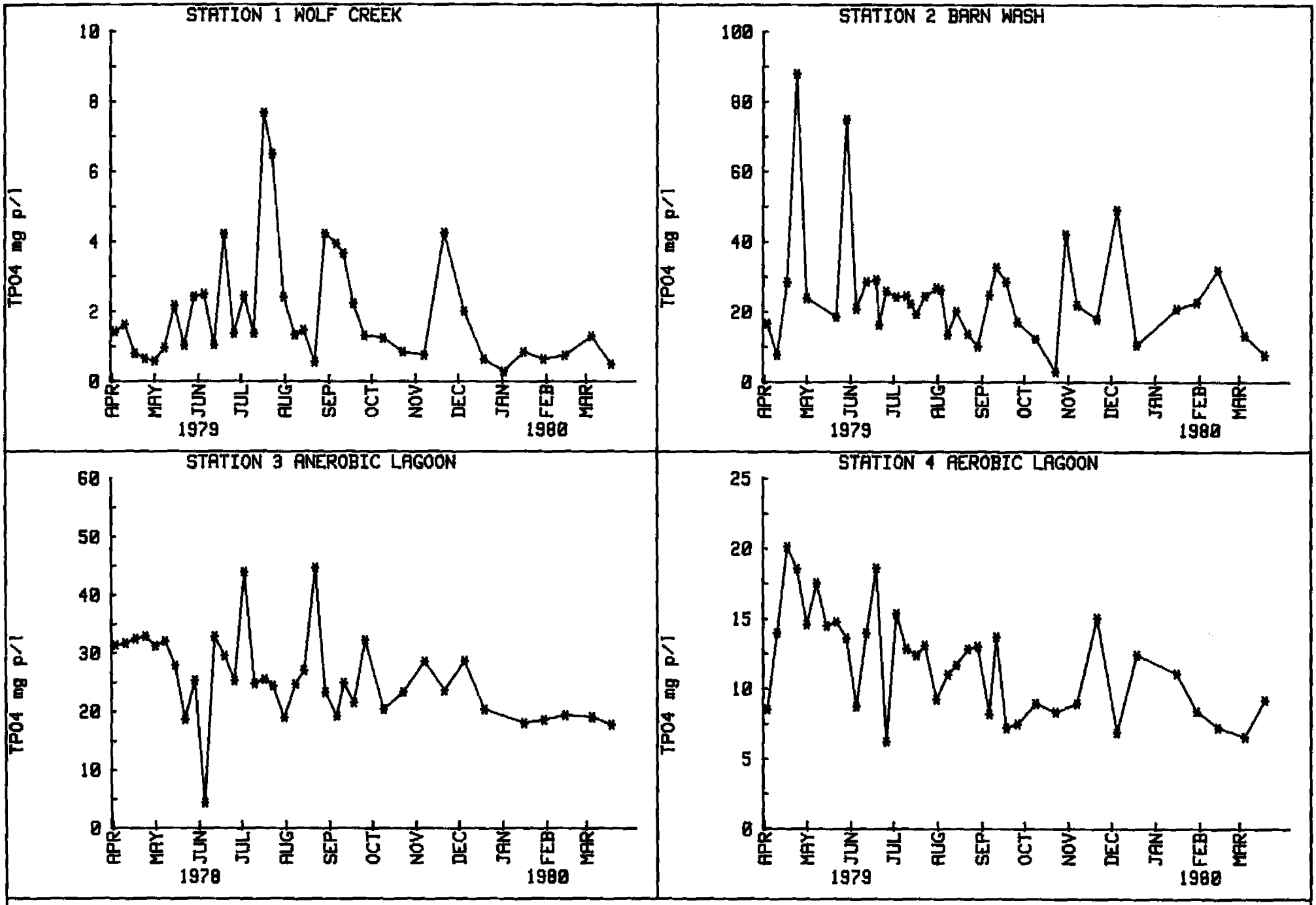
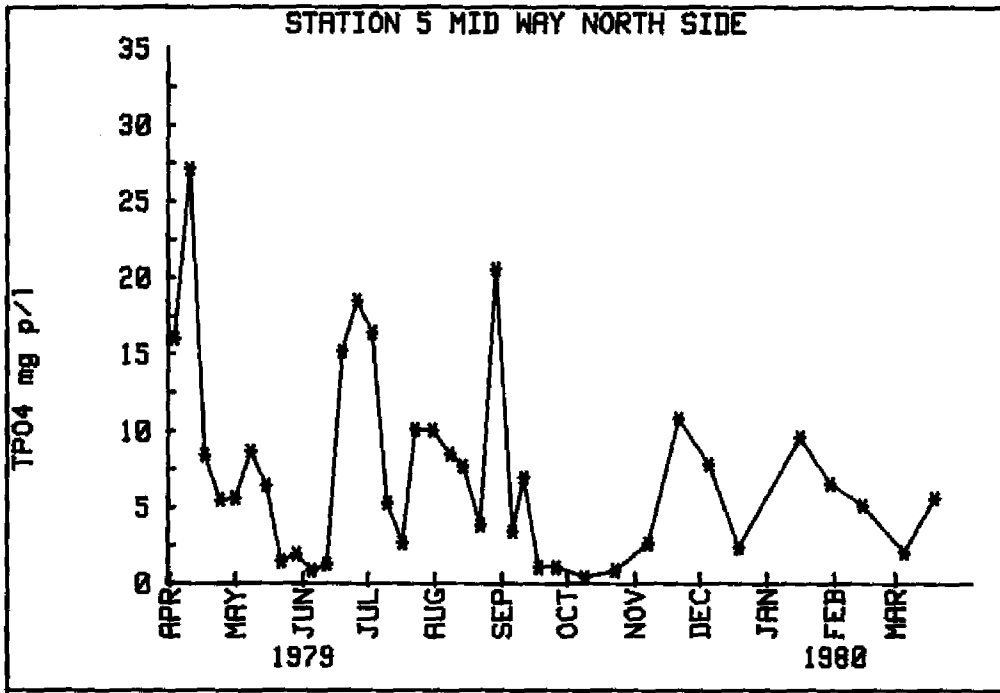


Figure III-56a TOTAL PHOSPHORUS FOR SEZ DAIRY



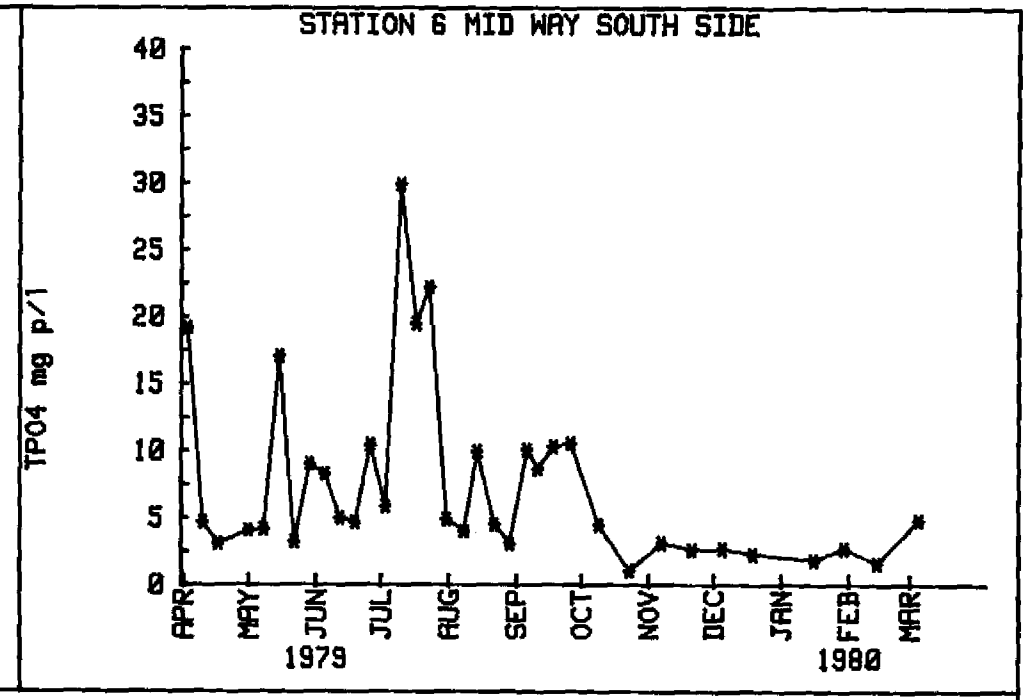


Figure III-56b TOTAL PHOSPHORUS FOR SEZ DAIRY

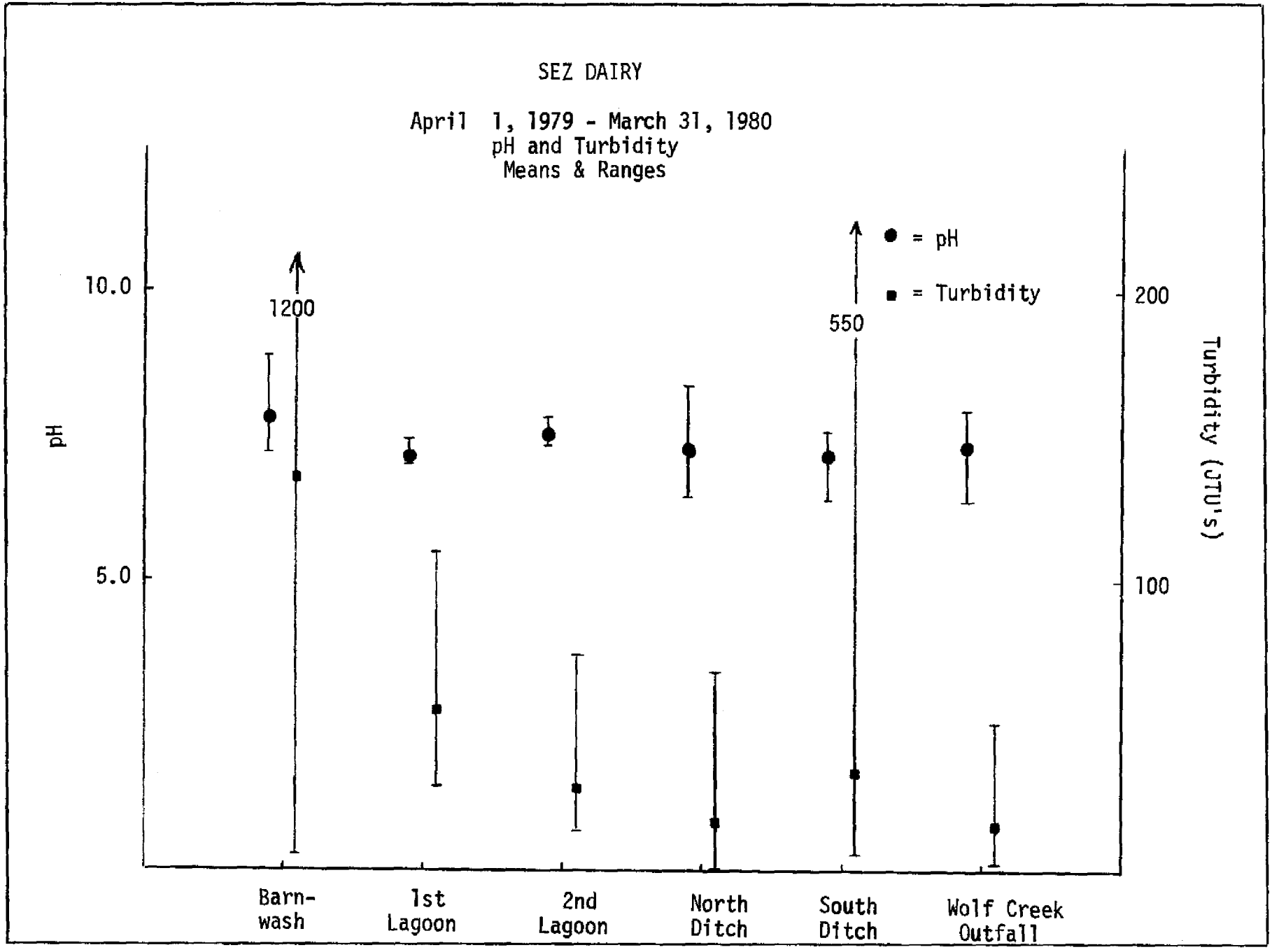


Figure III-57

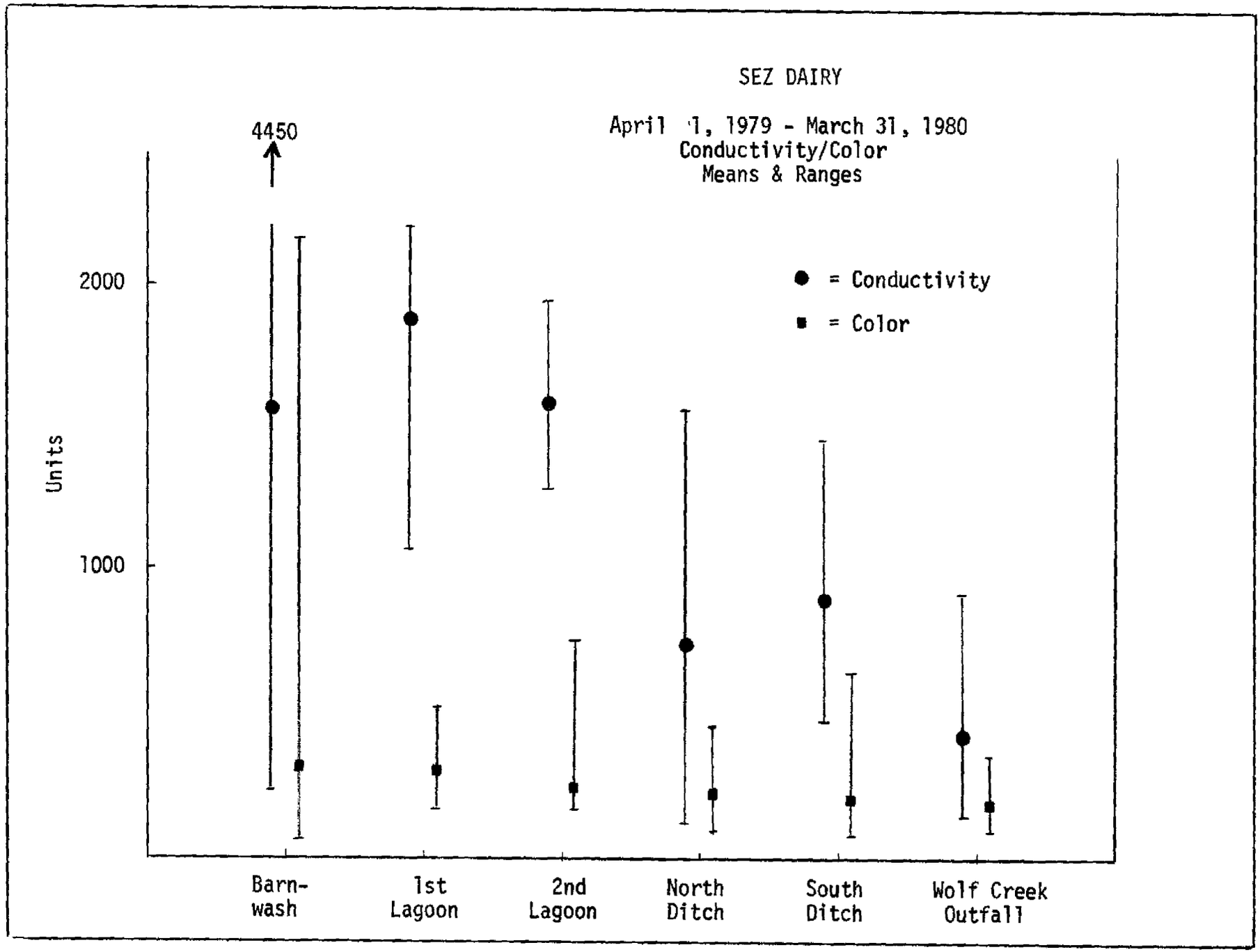


Figure III-58

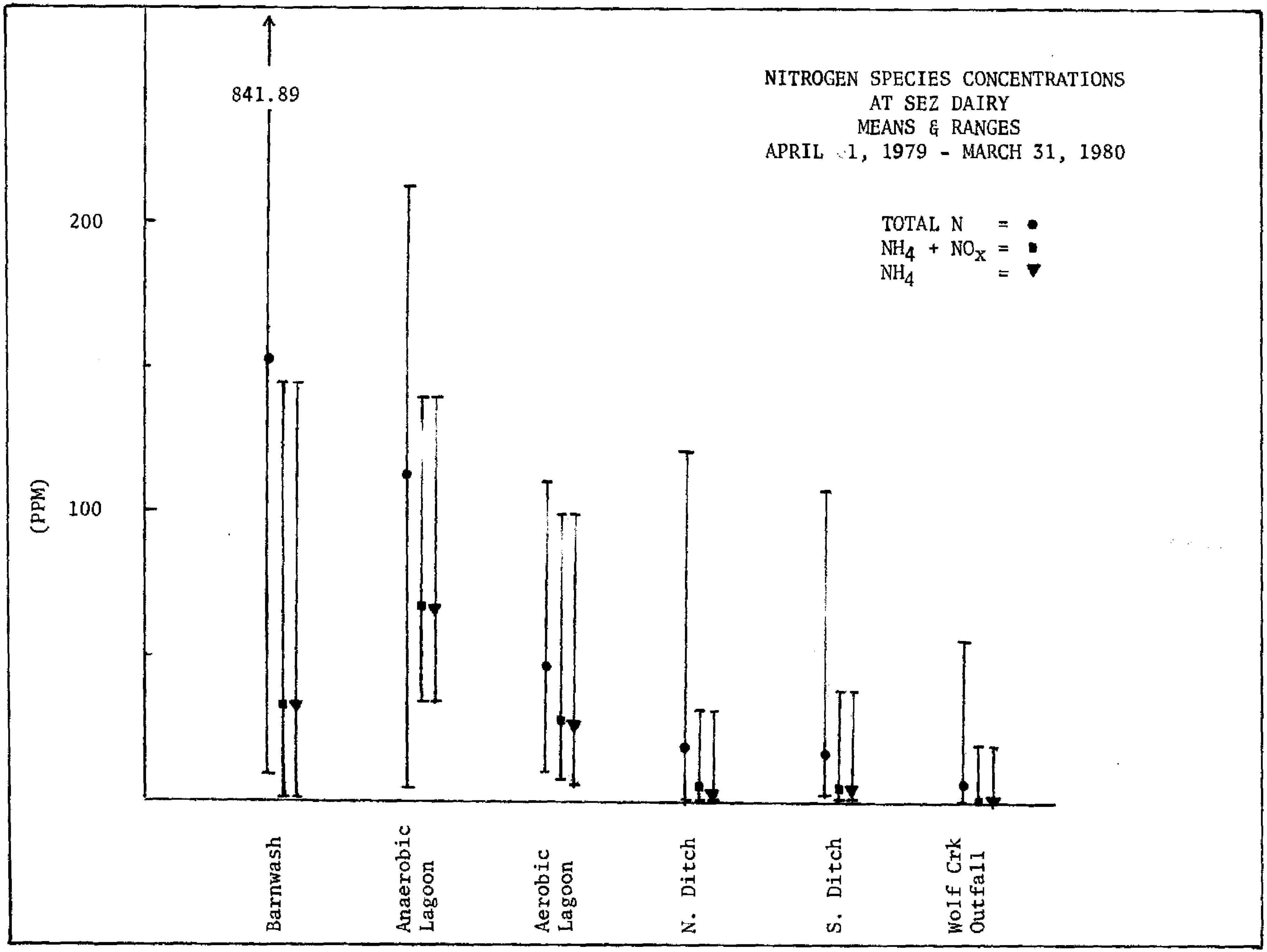
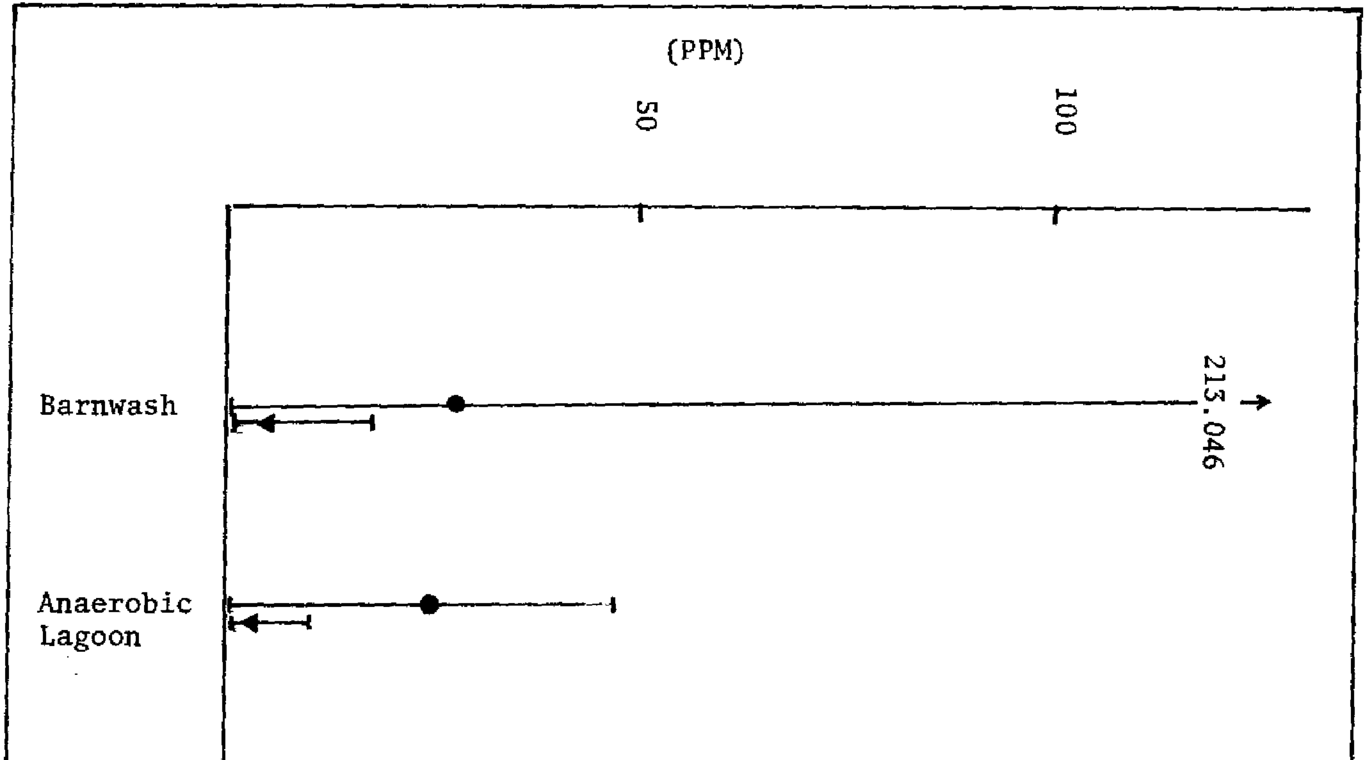


Figure III-59


(PPM)
50
100
213.046
Barnwash
Anaerobic
Lagoon

PHOSPHORUS SPECIES CONCENTRATIONS
AT SEZ DAIRY
MEANS & RANGES
APRIL 1, 1979 - MARCH 31, 1980

TOTAL P = ●
ORTHO P = ▼

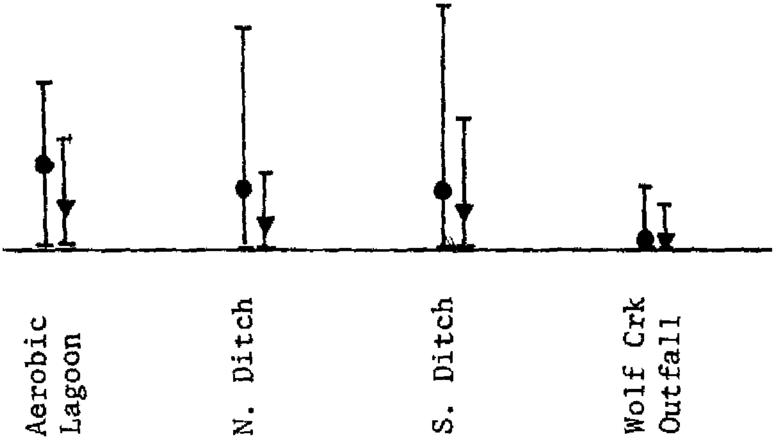


Figure III-60

Figure III-61

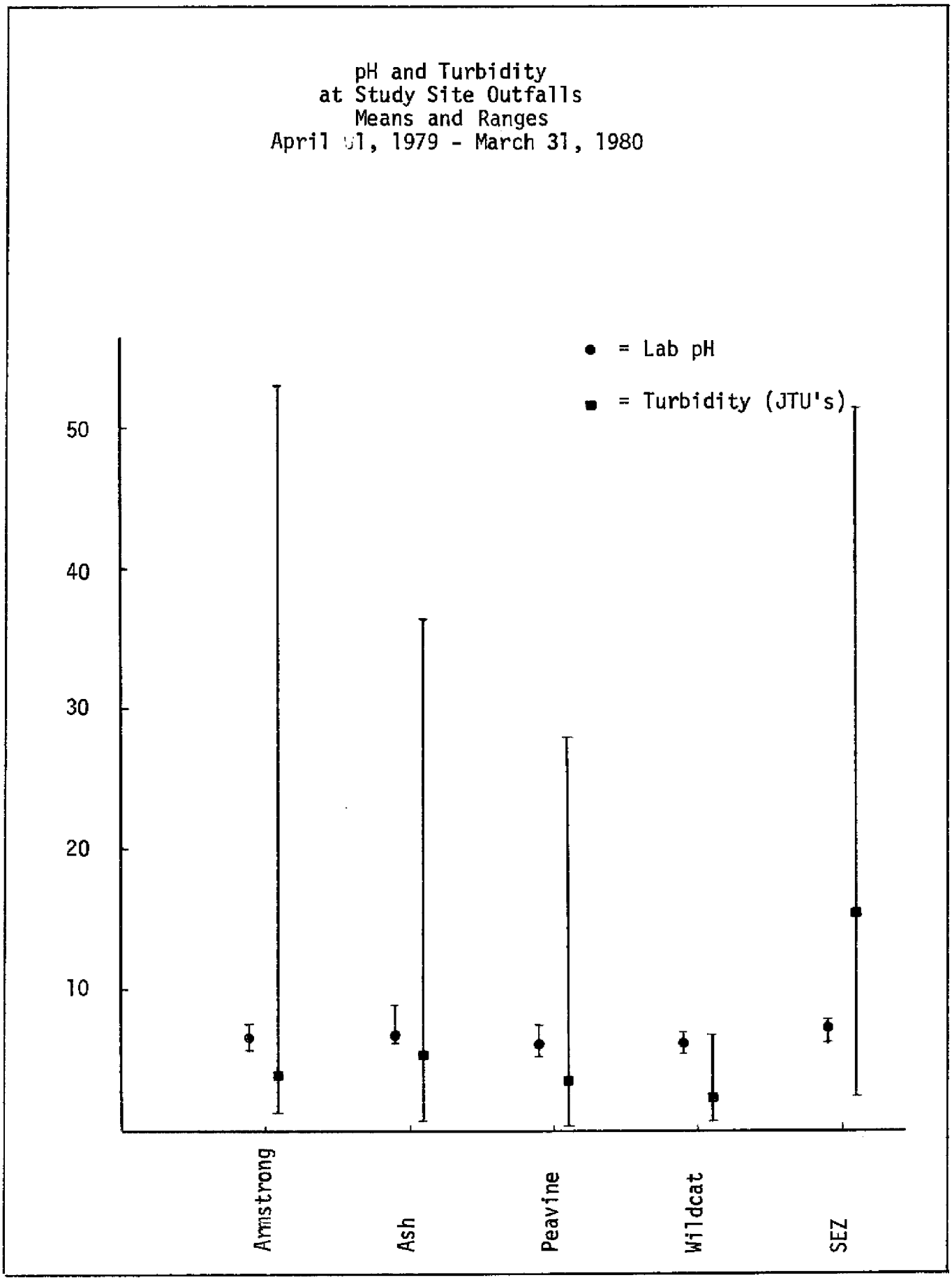


Figure III-62

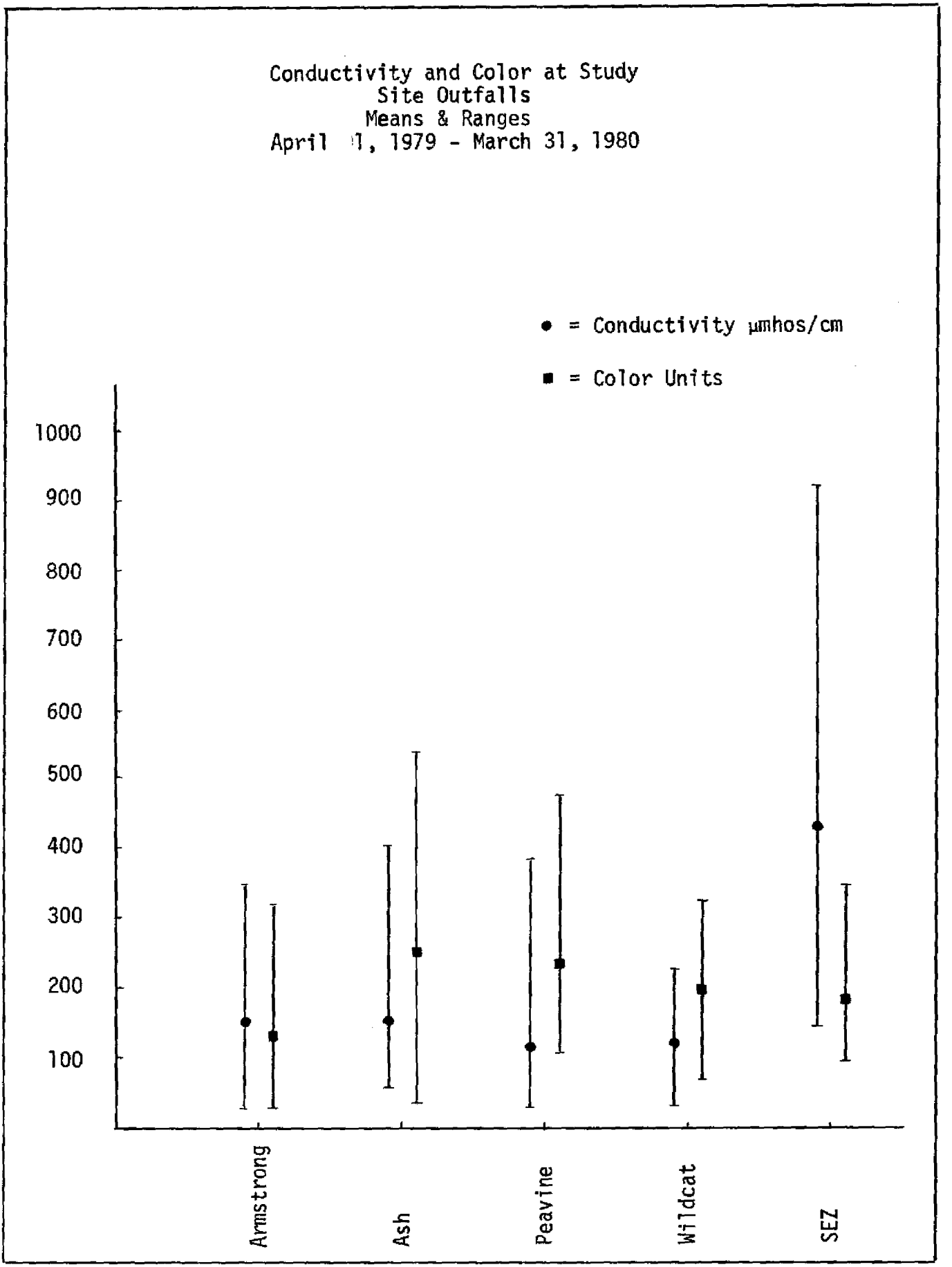
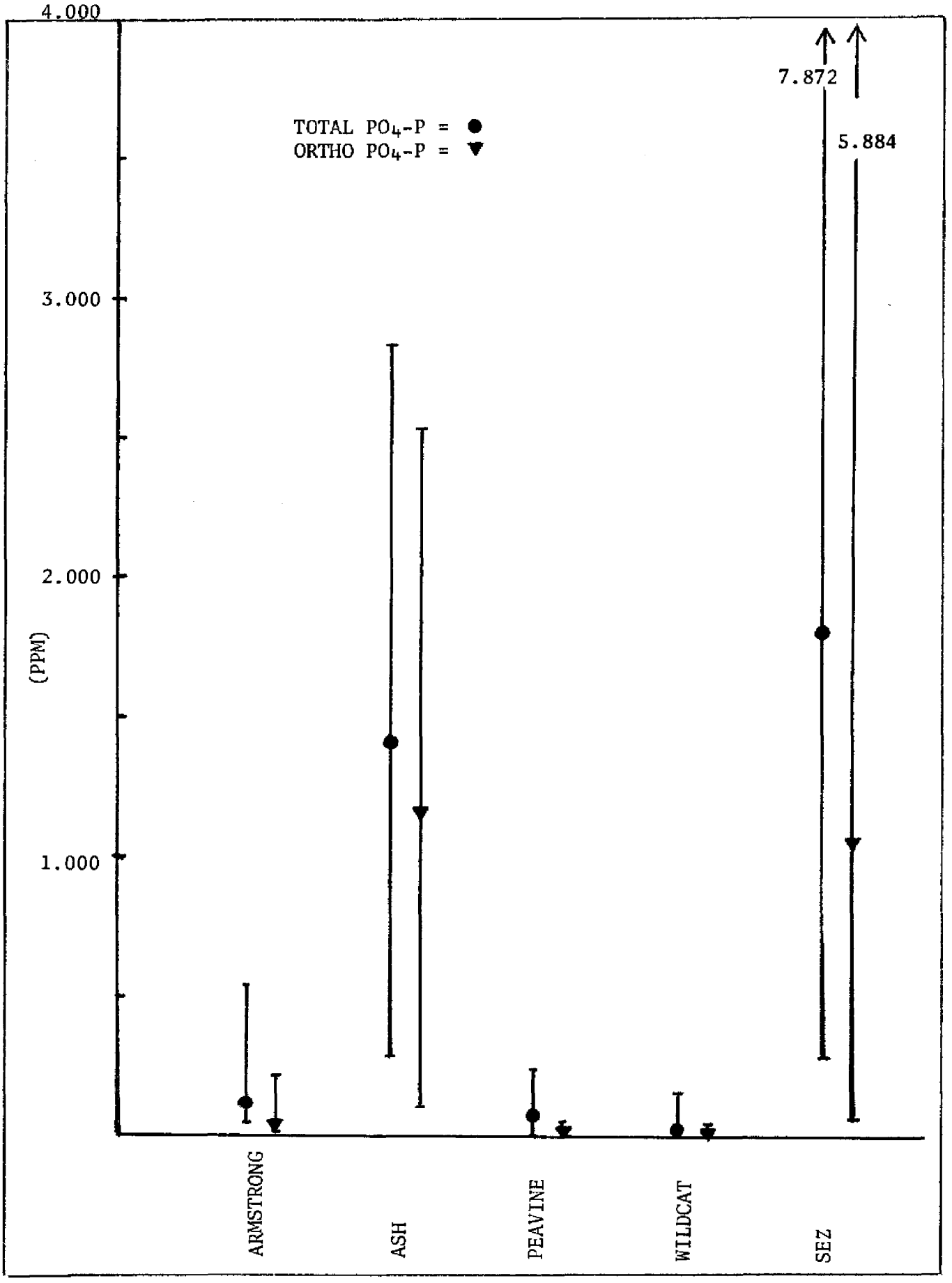


Figure III-63



PHOSPHORUS SPECIES CONCENTRATIONS AT STUDY SITE OUTFALLS
MEANS & RANGES APRIL 1, 1979 - MARCH 31, 1980

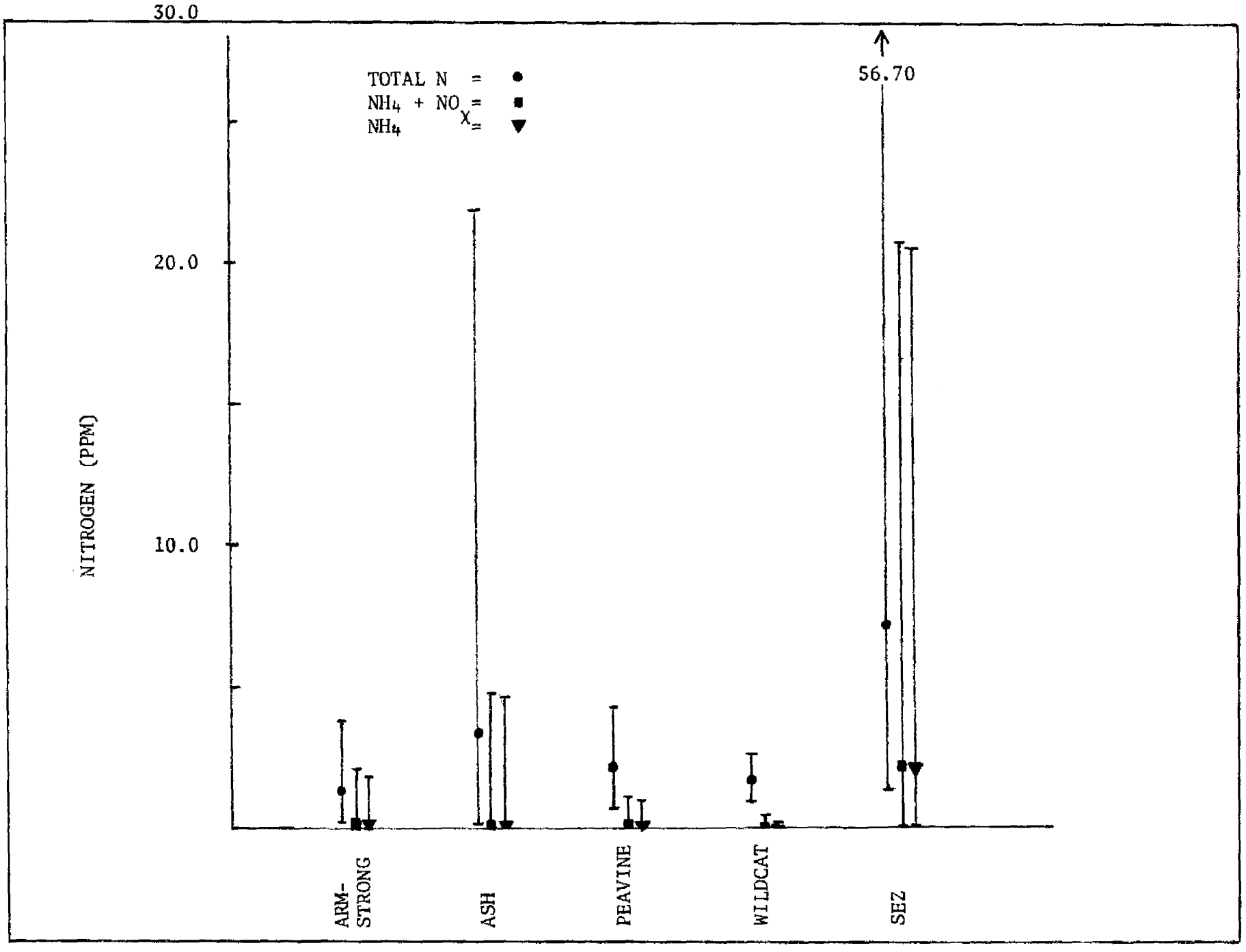


Figure III-64

NITROGEN SPECIES CONCENTRATIONS AT STUDY SITE OUTFALLS
MEANS & RANGES APRIL 1, 1979 - MARCH 31, 1980

ELEMENT V REPORTS

During the subject period July 1, 1979 through June 30, 1980, three formal, oral, project status reports were given and one formal project status report was written. The pertinent details of each are discussed in the following paragraphs.

November 1979 . . . Oral presentation to the Coordinating Council on the Restoration of the Kissimmee River Valley and Taylor Creek/Nubbin Slough Basin (KRVCC). This presentation, in Okeechobee, emphasized the data collection and quality control aspects of the SFWMD's role in the Upland Detention/Retention Demonstration Project. Examples of ranges and means of nitrogen and phosphorus concentrations measured at the project sites were graphically displayed and some comments were made regarding the apparent contribution of N and P from each of the sites.

April 1980 . . . Oral presentation to the KRVCC. This presentation, in Tallahassee, featured the formal presentation of the January 1980 semi-annual project progress report to Council. The discussion highlighted some of the data presented in the formal report and contained a description of the manner in which nutrient loadings were to be computed and used in comparing impact of various land use practices on water quality.

June 1980 . . . Oral presentation at the annual Upland Demonstration Project contractors meeting in Tallahassee, Florida. The SFWMD's activities for the previous year were summarized and participants were treated to a preliminary review of some of the water quality

data presented in this document.

January 1980 . . . A written semi-annual progress report was presented to Council (formal presentation, April 1980) in the form of a SFWMD technical memorandum. This document was produced to partially fulfill the SFWMD's contractual obligations to the KRVCC for formal updates and documentation of District activities as they relate to completion of the Upland Demonstration Project. The report covered the subject dates July 1, 1979 through December 31, 1979 and contained formal discussion of water quality data and preliminary findings. Information presented in that report has been updated and expanded upon to produce the text of this document.

July 1980 . . . An oral project status report was presented to Council at the July 1980 meeting in Okeechobee. Emphasis was placed on the District's completion of the construction activities, specifically (a) the installation of the earthen plug at Armstrong Slough, and (b) the repair and/or replacement of the damaged concrete flume structures.

REFERENCED LITERATURE

Goldstein, Alan L.; Thomas V. MacVicar, Ronald L. Mierau, Mary Lou Smith, and Robert J. Ulevich

"Upland Detention/Retention Demonstration Project Semi-Annual Report to the Coordinating Council on the Restoration of the Kissimmee River Valley and Taylor Creek/Nubbin Slough Basin."

South Florida Water Management District Technical Memorandum (January 1980)

Nordstedt, R. A.; L. B. Baldwin, and C. C. Hortenstine

"Multistage Lagoon Systems for Treatment of Dairy Farm Waste."

Proc. Int. Symp. on Livestock Wastes, ASAE Publication No. PROC-271: 77-80, ASAE, St. Joseph, Michigan 49085 (1971)

Nordstedt, R. A.; and L. B. Baldwin

"Sludge Accumulation and Stratification in Anaerobic Dairy Waste Lagoons."

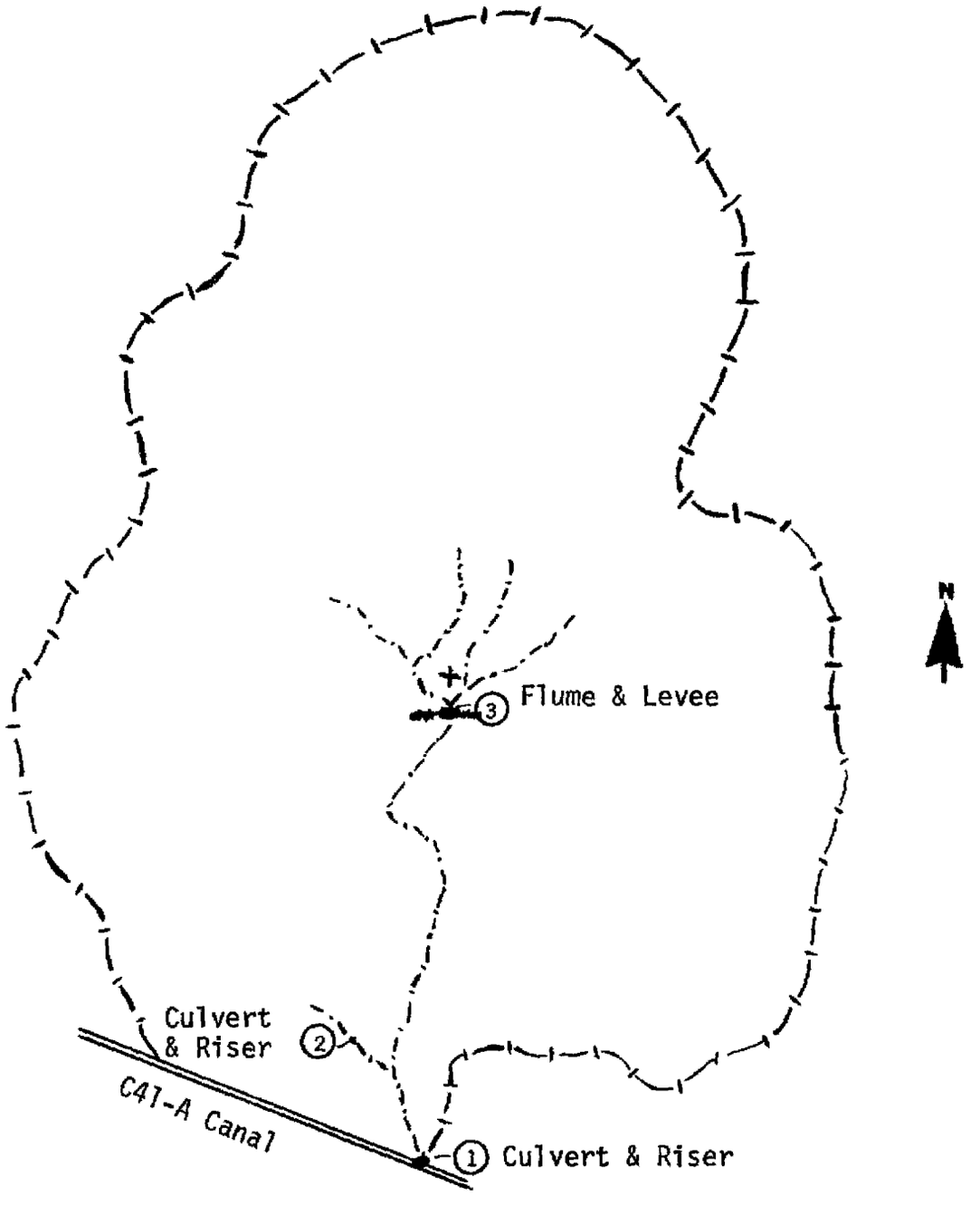
Transactions of the ASAE v. 18 (2): 312-315 (1975)

APPENDIX I

Project Site Description Maps

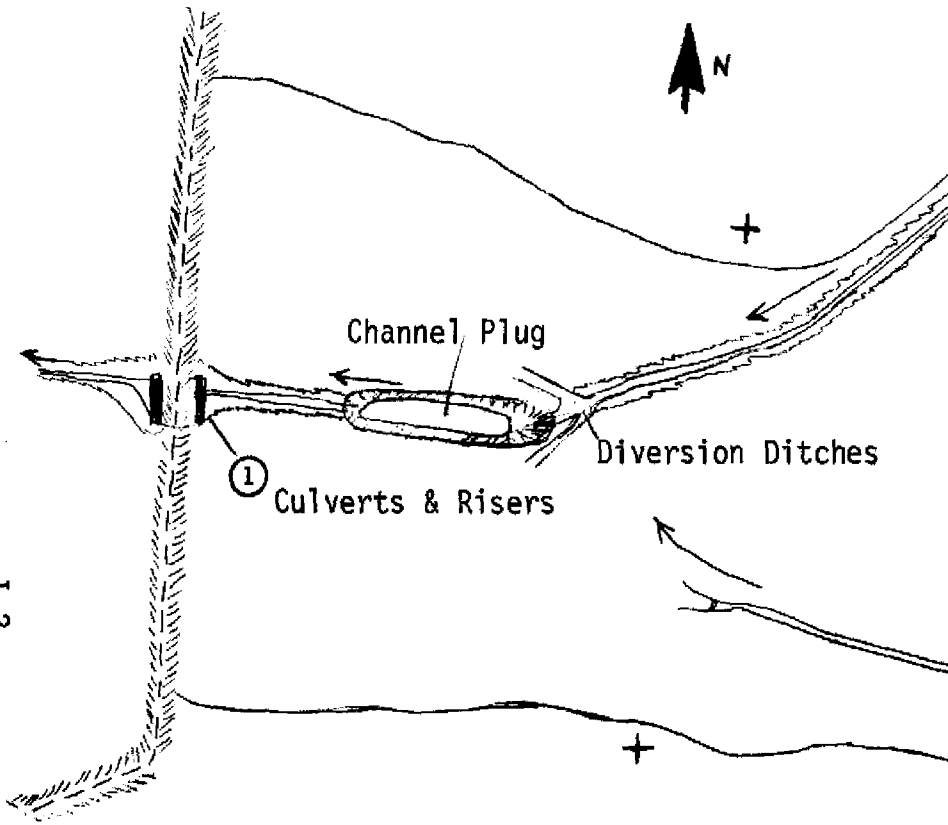
WILDCAT SLOUGH

Lykes Bros. Ranch



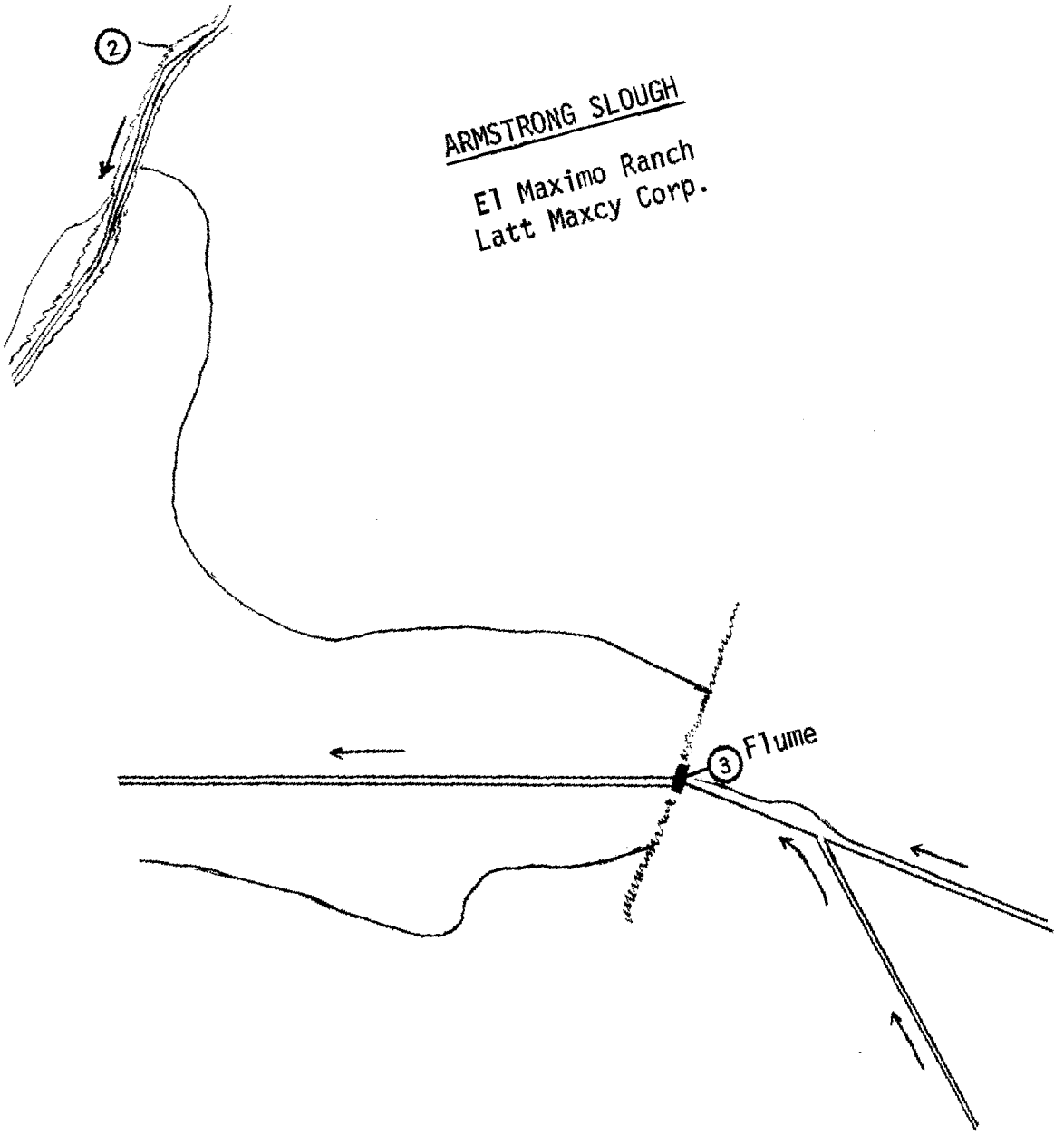
LEGEND

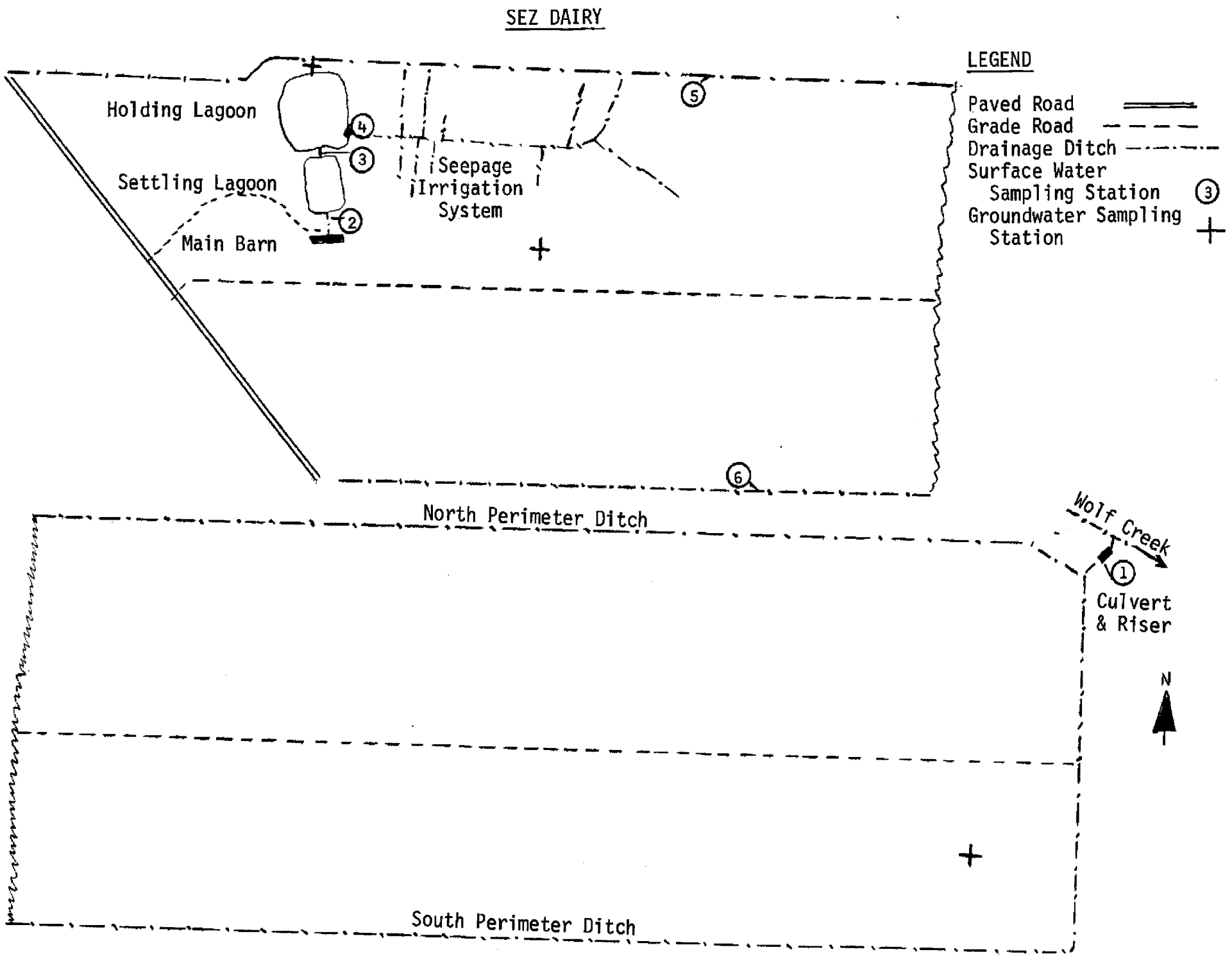
Watershed Boundary
Drainage Ditch
Surface Water Sampling Station (3)
Groundwater Sampling Station +

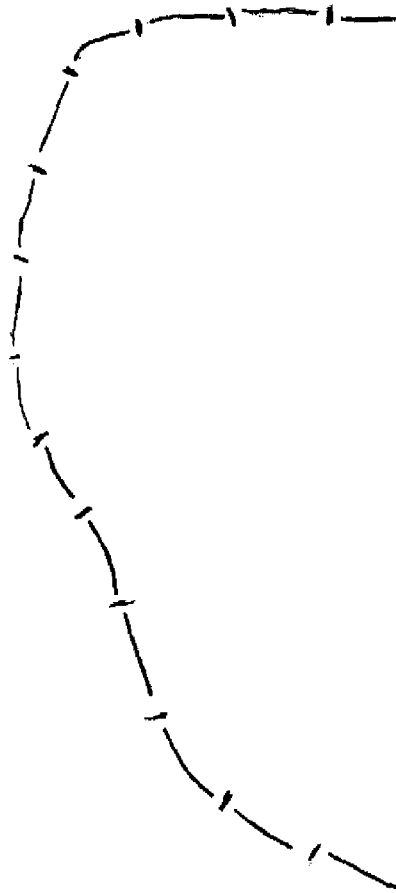


LEGEND

Grade Road
Marsh Boundary
Levee
Water Conveyance Channel
Surface Water Sampling Station ③
Groundwater Sampling Station +


2
ARMSTRONG SLOUGH
El Maximo Ranch
Latt Maxcy Corp.
3
Flume

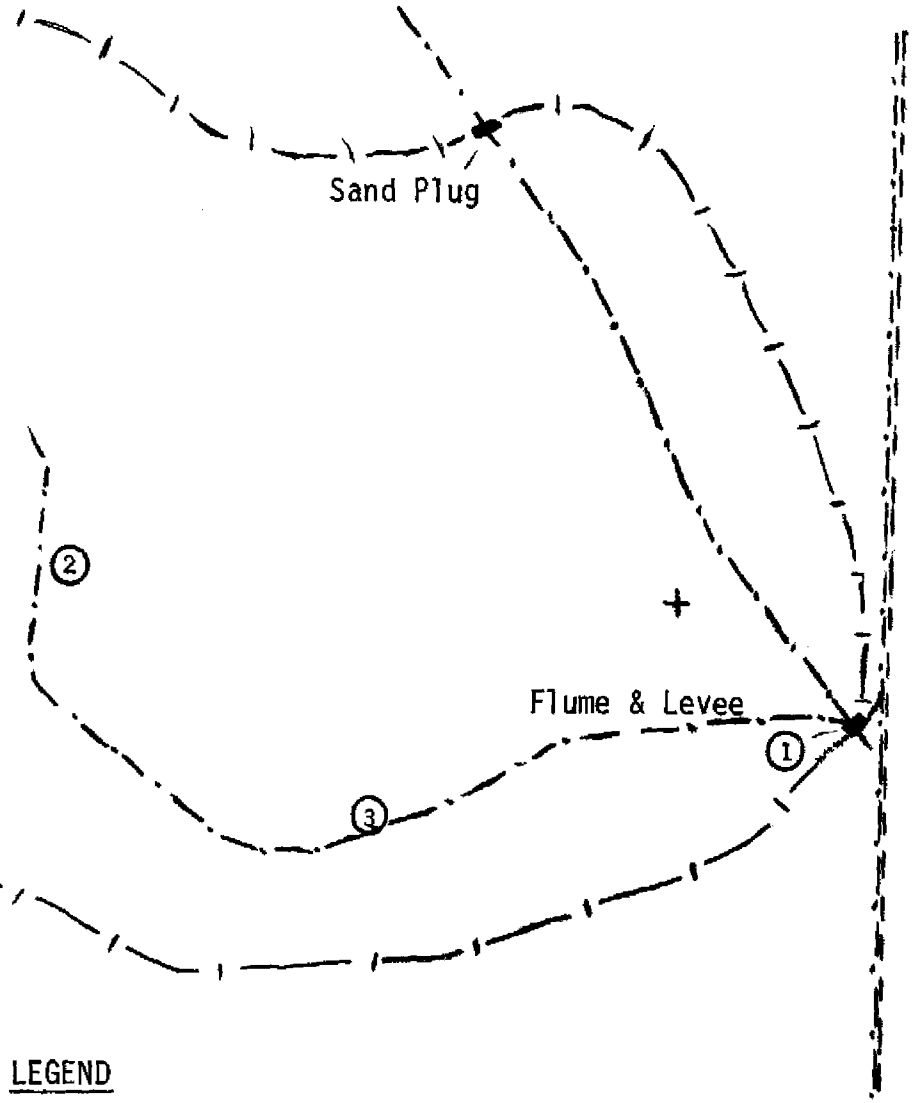

SEZ DAIRY
LEGEND
Paved Road
Grade Road
Drainage Ditch
Surface Water Sampling Station
Groundwater Sampling Station
Holding Lagoon
Settling Lagoon
Main Barn
Seepage Irrigation System
North Perimeter Ditch
South Perimeter Ditch
Wolf Creek
Culvert & Riser
N
1
2
3
4
5
6



N

PEAVINE PASTURE

El Maximo Ranch
Latt Maxcy Corp.

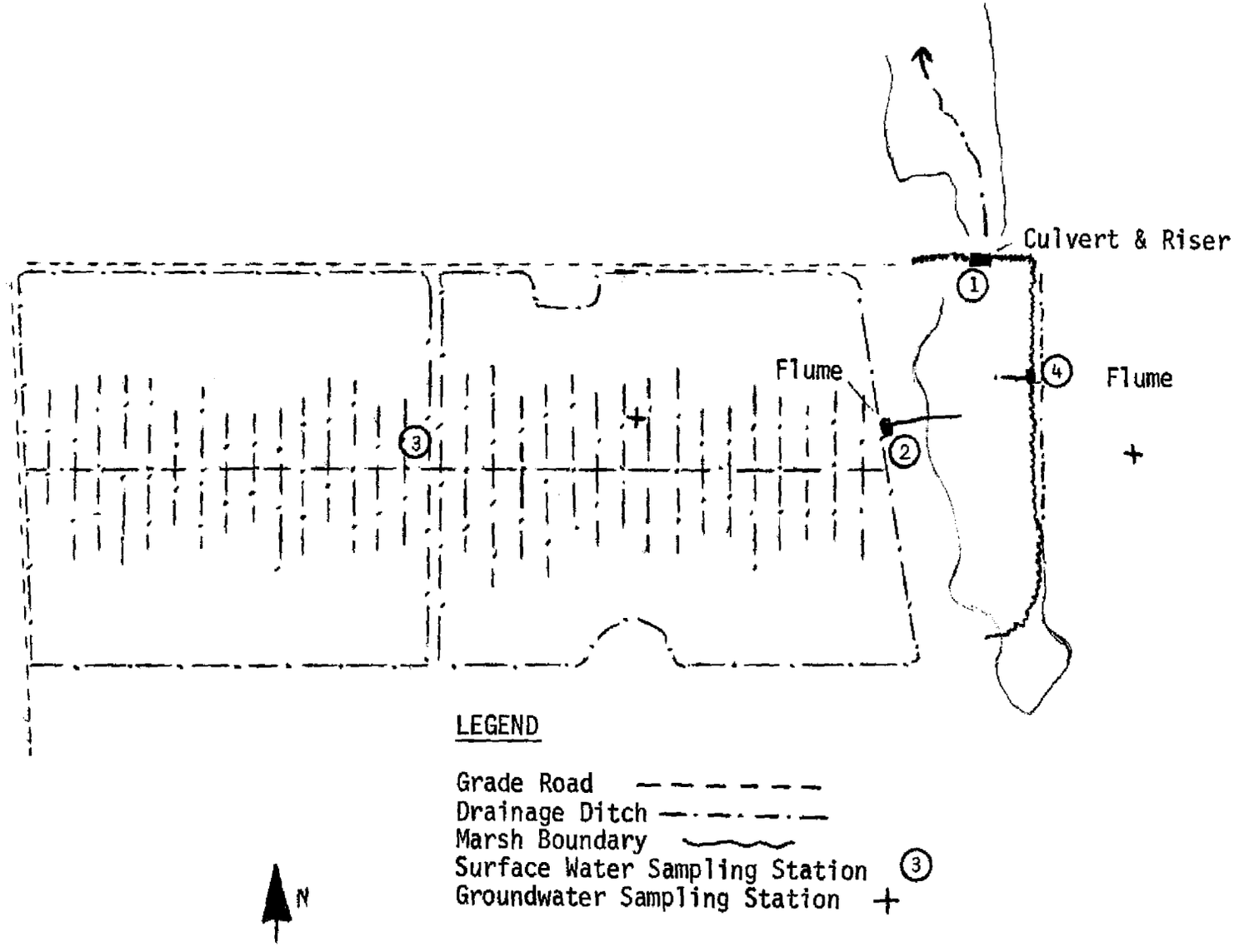


LEGEND

Watershed Boundary —|—|—|—|—
Grade Road — — — — —
Drainage Ditch —·—·—·—
Surface Water Sampling Station ③
Groundwater Sampling Station +

ASH SLOUGH

Bass Ranch



APPENDIX II

Upland Detention/Retention Demonstration Project Water Quality Data

April 1, 1979 - March 31, 1980

Project Code/Study Site Key:

OAMS = Armstrong Slough (Latt Maxcy)

OBAS = Ash Slough (J. C. Bass Ranch)

OLKS = Wildcat Slough (Lykes Bros. Ranch)

OPVN = Peavine Pasture (Latt Maxcy)

OSEZ = SEZ Dairy

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OAMS- 51	1	4/ 4/79	202.	6.85	1.7	71.
OAMS- 55	1	4/11/79	255.	7.27	1.5	49.
OAMS- 58	1	4/18/79	220.	7.23	1.9	29.
OAMS- 60	1	4/25/79	222.	7.15	6.0	74.
OAMS- 64	1	5/ 2/79	355.	6.96	2.9	102.
OAMS- 66	1	5/ 9/79	292.	7.43	2.5	46.
OAMS- 70	1	5/17/79	276.	7.40	20.0	138.
OAMS- 73	1	5/23/79	238.	7.00	2.1	67.
OAMS- 302	1	5/30/79	218.	7.17	1.8	58.
OAMS- 305	1	6/ 6/79	184.	7.11	4.3	48.
OAMS- 308	1	6/13/79	124.	6.92	3.2	40.
OAMS- 311	1	6/20/79	167.	7.66	53.0	134.
OAMS- 314	1	6/27/79	152.	6.67	2.2	110.
OAMS- 317	1	7/ 4/79	123.	6.70	1.5	159.
OAMS- 320	1	7/11/79	152.	6.81	1.5	169.
OAMS- 323	1	7/18/79	98.	6.30	1.3	305.
OAMS- 326	1	7/24/79	98.	6.40	1.2	235.
OAMS- 329	1	8/ 1/79	80.	6.16	1.9	178.
OAMS- 334	1	8/15/79	86.	6.16	2.0	316.
OAMS- 337	1	8/21/79	89.	6.24	1.4	246.
OAMS- 340	1	8/28/79	112.	6.63	2.0	211.
OAMS- 343	1	9/ 3/79	29.	5.61	2.3	210.
OAMS- 346	1	9/12/79	60.	5.93	2.2	322.
OAMS- 348	1	9/19/79	62.	6.13	2.5	281.
OAMS- 351	1	9/25/79	74.	6.02	1.5	249.
OAMS- 354	1	10/10/79	76.	6.15	2.7	198.
OAMS- 357	1	10/24/79	85.	6.29	3.0	152.
OAMS- 360	1	11/ 6/79	80.	6.54	2.6	122.
OAMS- 363	1	11/20/79	163.	6.78	1.7	68.
OAMS- 366	1	12/ 4/79	193.	6.83	2.0	61.
OAMS- 369	1	12/18/79	147.	6.86	2.5	80.
OAMS- 372	1	1/ 2/80	142.	6.81	2.2	53.
OAMS- 375	1	1/15/80	133.	6.63	2.4	56.
OAMS- 378	1	1/29/80	147.	6.83	1.9	97.
OAMS- 381	1	2/13/80	145.	6.98	1.8	56.
OAMS- 384	1	3/ 4/80	185.	6.56	1.3	145.
OAMS- 387	1	3/18/80	156.	6.79	2.3	88.
OAMS- 391	1	4/ 1/80	138.	6.83	2.9	64.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OAMS- 51	1	4/ 4/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 55	1	4/11/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 58	1	4/18/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 60	1	4/25/79	0.341	0.271	0.070	1.83	2.17
OAMS- 64	1	5/ 2/79	0.077	0.058	0.019	0.48	0.56
OAMS- 66	1	5/ 9/79	0.010	< 0.004	< 0.008	< 0.04	0.05
OAMS- 70	1	5/17/79	< 0.008	< 0.004	< 0.008	0.05	0.06
OAMS- 73	1	5/23/79	0.044	0.036	< 0.008	0.11	0.15
OAMS- 302	1	5/30/79	< 0.008	< 0.004	< 0.008	0.08	0.09
OAMS- 305	1	6/ 6/79	< 0.008	< 0.004	< 0.008	0.09	0.10
OAMS- 308	1	6/13/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OAMS- 311	1	6/20/79	0.134	0.116	0.018	0.34	0.47
OAMS- 314	1	6/27/79	0.035	0.027	< 0.008	0.04	0.08
OAMS- 317	1	7/ 4/79	< 0.008	< 0.004	< 0.008	0.04	0.05
OAMS- 320	1	7/11/79	0.008	< 0.004	0.005	0.02	0.03
OAMS- 323	1	7/18/79	0.014	0.010	< 0.004	0.05	0.06
OAMS- 326	1	7/24/79	0.018	0.010	0.008	0.02	0.04
OAMS- 329	1	8/ 1/79	0.010	< 0.004	0.007	0.02	0.03
OAMS- 334	1	8/15/79	0.011	< 0.004	0.010	0.03	0.04
OAMS- 337	1	8/21/79	0.025	0.017	0.008	0.06	0.09
OAMS- 340	1	8/28/79	0.023	0.015	0.008	0.04	0.06
OAMS- 343	1	9/ 3/79	< 0.004	< 0.004	0.006	0.01	0.01
OAMS- 346	1	9/12/79	0.008		0.012	0.02	0.03
OAMS- 348	1	9/19/79	< 0.004	< 0.004	0.010	< 0.01	< 0.01
OAMS- 351	1	9/25/79	0.004		0.010	0.02	0.02
OAMS- 354	1	10/10/79	0.022	0.016	0.006	0.09	0.11
OAMS- 357	1	10/24/79	0.046	0.037	0.009	0.13	0.18
OAMS- 360	1	11/ 6/79	0.040	0.035	0.005	0.04	0.08
OAMS- 363	1	11/20/79	0.023	0.014	0.009	0.02	0.04
OAMS- 366	1	12/ 4/79	0.014	0.010	< 0.004	0.02	0.03
OAMS- 369	1	12/18/79	0.022	0.018	< 0.004	0.02	0.04
OAMS- 372	1	1/ 2/80	0.006	< 0.004	< 0.004	0.02	0.03
OAMS- 375	1	1/15/80	0.007	< 0.004	< 0.004	0.01	0.02
OAMS- 378	1	1/29/80	0.006	< 0.004	< 0.004	< 0.01	0.02
OAMS- 381	1	2/13/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01
OAMS- 384	1	3/ 4/80	0.033	0.029	0.004	0.02	0.05
OAMS- 387	1	3/18/80	< 0.004	< 0.004	< 0.004	0.03	0.03
OAMS- 391	1	4/ 1/80	0.007	< 0.004	< 0.004	0.06	0.07

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO4 MG P/L
OAMS- 51	1	4/ 4/79	0.83	0.81	0.84		0.052	0.083
OAMS- 55	1	4/11/79	0.68	0.64	0.69		0.048	0.077
OAMS- 58	1	4/18/79	1.05	1.03	1.06		0.049	0.112
OAMS- 60	1	4/25/79	3.16	1.33	3.50	<	0.040	0.094
OAMS- 64	1	5/ 2/79	2.29	1.81	2.37		0.021	0.109
OAMS- 66	1	5/ 9/79	1.16	1.12	1.17	<	0.040	0.056
OAMS- 70	1	5/17/79	2.14	2.09	2.15		0.064	0.460
OAMS- 73	1	5/23/79	0.76	0.65	0.80		0.047	0.082
OAMS- 302	1	5/30/79	1.34	1.26	1.35		0.060	0.212
OAMS- 305	1	6/ 6/79	0.88	0.79	0.89		0.040	0.096
OAMS- 308	1	6/13/79	0.52	0.51	0.53		0.042	0.068
OAMS- 311	1	6/20/79	3.74	3.40	3.87		0.026	0.548
OAMS- 314	1	6/27/79	0.91	0.87	0.95		0.051	0.099
OAMS- 317	1	7/ 4/79	1.22	1.18	1.23		0.041	0.080
OAMS- 320	1	7/11/79	1.60	1.58	1.61		0.026	0.068
OAMS- 323	1	7/18/79	1.89	1.84	1.90		0.036	0.096
OAMS- 326	1	7/24/79	1.69	1.67	1.71		0.026	0.066
OAMS- 329	1	8/ 1/79	1.43	1.41	1.44		0.021	0.048
OAMS- 334	1	8/15/79	2.13	2.10	2.14		0.032	0.108
OAMS- 337	1	8/21/79	1.46	1.40	1.49		0.034	0.075
OAMS- 340	1	8/28/79	1.64	1.60	1.66		0.021	0.076
OAMS- 343	1	9/ 3/79	0.50	0.49	0.50		0.054	0.104
OAMS- 346	1	9/12/79	2.11	2.09	2.12		0.072	0.218
OAMS- 348	1	9/19/79	1.95	1.94	1.95		0.201	0.356
OAMS- 351	1	9/25/79	1.52	1.50	1.52		0.060	0.128
OAMS- 354	1	10/10/79	1.37	1.28	1.39		0.057	0.112
OAMS- 357	1	10/24/79	2.95	2.82	3.00		0.061	0.194
OAMS- 360	1	11/ 6/79	0.99	0.95	1.03		0.044	0.097
OAMS- 363	1	11/20/79	0.70	0.68	0.72		0.024	0.054
OAMS- 366	1	12/ 4/79	0.77	0.75	0.78		0.014	0.049
OAMS- 369	1	12/18/79	0.82	0.80	0.84		0.027	0.066
OAMS- 372	1	1/ 2/80	0.67	0.65	0.68		0.017	0.049
OAMS- 375	1	1/15/80	0.63	0.62	0.64		0.033	0.083
OAMS- 378	1	1/29/80	0.98	0.97	0.99		0.023	0.065
OAMS- 381	1	2/13/80	0.61	0.60	0.61		0.016	0.042
OAMS- 384	1	3/ 4/80	1.37	1.35	1.40		0.019	0.057
OAMS- 387	1	3/18/80	1.43	1.40	1.43		0.052	0.106
OAMS- 391	1	4/ 1/80	0.79	0.73	0.80		0.073	0.135

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT DAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			38	38	38	38
AVERAGE			152.	6.70	4.0	134.
ST. DEV.			72.	0.46	8.7	86.
MIN. VAL.			29.	5.61	1.2	29.
MAX. VAL.			355.	7.66	53.0	322.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			38	36	38	38	38
AVERAGE			0.028	0.022	0.009	0.10	0.13
ST. DEV.			0.058	0.048	0.011	0.30	0.36
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.341	0.271	0.070	1.83	2.17

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			38	38	38	38	38
AVERAGE			1.39	1.28	1.41	0.044	0.122
ST. DEV.			0.76	0.65	0.79	0.031	0.109
MIN. VAL.			0.50	0.49	0.50	0.014	0.042
MAX. VAL.			3.74	3.40	3.97	0.201	0.548

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OAMS- 52	2	4/ 4/79	226.	7.22	1.7	42.
OAMS- 53	2	4/11/79	250.	7.36	1.6	34.
OAMS- 56	2	4/18/79	183.	7.33	1.4	25.
OAMS- 61	2	4/25/79	373.	7.71	1.2	31.
OAMS- 62	2	5/ 2/79	477.	7.45	2.6	55.
OAMS- 65	2	5/ 9/79	321.	7.46	1.6	35.
OAMS- 68	2	5/17/79	277.	7.22	1.9	123.
OAMS- 71	2	5/23/79	192.	6.94	1.7	58.
OAMS- 300	2	5/30/79	178.	7.24	1.8	45.
OAMS- 303	2	6/ 6/79	137.	7.13	2.1	39.
OAMS- 306	2	6/13/79	113.	7.23	3.0	46.
OAMS- 309	2	6/20/79	105.	7.07	5.3	68.
OAMS- 312	2	6/27/79	189.	6.73	2.3	96.
OAMS- 315	2	7/ 4/79	145.	6.64	1.6	109.
OAMS- 318	2	7/11/79	152.	6.53	1.4	167.
OAMS- 321	2	7/18/79	150.	6.40	1.8	232.
OAMS- 324	2	7/24/79	128.	6.44	2.5	185.
OAMS- 327	2	8/ 1/79	84.	6.46	2.2	152.
OAMS- 330	2	8/ 7/79	136.	6.28	2.0	265.
OAMS- 332	2	8/15/79	84.	6.09	1.4	283.
OAMS- 335	2	8/21/79	110.	6.17	1.8	228.
OAMS- 338	2	8/28/79	131.	6.44	2.0	216.
OAMS- 341	2	9/ 3/79	39.	5.95	2.5	219.
OAMS- 344	2	9/12/79	80.	6.08	2.5	365.
OAMS- 347	2	9/19/79	72.	6.06	2.4	282.
OAMS- 350	2	9/25/79	92.	5.95	1.7	247.
OAMS- 352	2	10/10/79	86.	6.17	1.2	213.
OAMS- 355	2	10/24/79	79.	6.27	3.2	152.
OAMS- 358	2	11/ 6/79	76.	6.43	3.7	118.
OAMS- 361	2	11/20/79	156.	6.94	2.2	72.
OAMS- 364	2	12/ 4/79	175.	6.73	2.7	75.
OAMS- 367	2	12/18/79	156.	6.97	2.5	83.
OAMS- 370	2	1/ 2/80	128.	6.83	2.0	46.
OAMS- 373	2	1/15/80	119.	6.57	3.5	76.
OAMS- 376	2	1/29/80	160.	6.98	2.1	85.
OAMS- 380	2	2/13/80	205.	7.06	1.2	84.
OAMS- 382	2	3/ 4/80	225.	6.59	1.3	148.
OAMS- 385	2	3/18/80	153.	6.84	1.8	83.
OAMS- 389	2	4/ 1/80	126.	6.78	2.4	55.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OAMS- 52	2	4/ 4/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 53	2	4/11/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 56	2	4/18/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 61	2	4/25/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 62	2	5/ 2/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 65	2	5/ 9/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 68	2	5/17/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 71	2	5/23/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OAMS- 300	2	5/30/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 303	2	6/ 6/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 306	2	6/13/79	0.008	< 0.004	< 0.008	0.03	0.04
OAMS- 309	2	6/20/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 312	2	6/27/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OAMS- 315	2	7/ 4/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 318	2	7/11/79	0.008	< 0.004	0.006	0.03	0.04
OAMS- 321	2	7/18/79	0.016	0.009	0.007	0.06	0.08
OAMS- 324	2	7/24/79	0.019	0.012	0.007	0.07	0.09
OAMS- 327	2	8/ 1/79	0.007	< 0.004	0.006	0.02	0.03
OAMS- 330	2	8/ 7/79	0.016	0.008	0.008	0.04	0.06
OAMS- 332	2	8/15/79	0.014	< 0.004	0.011	0.04	0.05
OAMS- 335	2	8/21/79	0.034	0.027	0.007	0.07	0.10
OAMS- 338	2	8/28/79	0.017	0.010	0.007	0.04	0.06
OAMS- 341	2	9/ 3/79	0.006		0.007	0.01	0.02
OAMS- 344	2	9/12/79	0.010		0.014		
OAMS- 347	2	9/19/79	< 0.004	< 0.004	0.010	< 0.01	< 0.01
OAMS- 350	2	9/25/79	0.008		0.011	0.04	0.05
OAMS- 352	2	10/10/79	0.027	0.020	0.007	0.12	0.15
OAMS- 355	2	10/24/79	0.041	0.034	0.007	0.12	0.16
OAMS- 358	2	11/ 6/79	0.042	0.037	0.005	0.06	0.10
OAMS- 361	2	11/20/79	0.013	0.009	< 0.004	0.02	0.03
OAMS- 364	2	12/ 4/79	0.016	0.012	< 0.004	0.04	0.06
OAMS- 367	2	12/18/79	0.004	< 0.004	< 0.004	< 0.01	0.01
OAMS- 370	2	1/ 2/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01
OAMS- 373	2	1/15/80	0.007	< 0.004	< 0.004	0.02	0.03
OAMS- 376	2	1/29/80	0.008	< 0.004	0.004	0.02	0.03
OAMS- 380	2	2/13/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01
OAMS- 382	2	3/ 4/80	0.014	0.010	< 0.004	0.02	0.03
OAMS- 385	2	3/18/80	< 0.004	< 0.004	< 0.004	0.01	0.01
OAMS- 389	2	4/ 1/80	0.012	0.008	< 0.004	0.04	0.05

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L		TPO4 MG P/L
OAMS- 52	2	4/ 4/79	0.31	0.29	0.32		0.046		0.075
OAMS- 53	2	4/11/79	0.78	0.74	0.79	<	0.040		0.066
OAMS- 56	2	4/18/79	0.48	0.46	0.49		0.035		0.061
OAMS- 61	2	4/25/79	0.55	0.51	0.56	<	0.040	<	0.040
OAMS- 62	2	5/ 2/79	1.02	0.98	1.03		0.021		0.063
OAMS- 65	2	5/ 9/79	0.66	0.62	0.67	<	0.040		0.044
OAMS- 68	2	5/17/79	1.13	1.09	1.14	<	0.040		0.067
OAMS- 71	2	5/23/79	0.64	0.63	0.65		0.030		0.055
OAMS- 300	2	5/30/79	1.02	0.98	1.03		0.021		0.054
OAMS- 303	2	6/ 6/79	0.69	0.67	0.70		0.016		0.060
OAMS- 306	2	6/13/79	0.47	0.44	0.48		0.035		0.091
OAMS- 309	2	6/20/79	0.96	0.94	0.97		0.043		0.102
OAMS- 312	2	6/27/79	1.27	1.26	1.28		0.034		0.186
OAMS- 315	2	7/ 4/79	1.12	1.10	1.13		0.032		0.070
OAMS- 318	2	7/11/79	2.17	2.14	2.18		0.020		0.107
OAMS- 321	2	7/18/79	2.09	2.03	2.11		0.020		0.039
OAMS- 324	2	7/24/79	1.84	1.77	1.86		0.025		0.089
OAMS- 327	2	8/ 1/79	1.59	1.57	1.60		0.026		0.045
OAMS- 330	2	8/ 7/79	1.67	1.63	1.69		0.023		0.084
OAMS- 332	2	8/15/79	2.08	2.04	2.09		0.044		0.136
OAMS- 335	2	8/21/79	1.66	1.59	1.69		0.037		0.091
OAMS- 338	2	8/28/79	1.68	1.64	1.70		0.018		0.077
OAMS- 341	2	9/ 3/79	1.31	1.30	1.32		0.111		0.170
OAMS- 344	2	9/12/79	2.51		2.52		0.114		0.345
OAMS- 347	2	9/19/79	2.25	2.24	2.25		0.253		0.429
OAMS- 350	2	9/25/79	1.77	1.73	1.78		0.084		0.199
OAMS- 352	2	10/10/79	1.52	1.40	1.55		0.075		0.145
OAMS- 355	2	10/24/79	1.33	1.21	1.37		0.059		0.134
OAMS- 358	2	11/ 6/79	0.82	0.76	0.86		0.038		0.112
OAMS- 361	2	11/20/79	1.03	1.01	1.04		0.026		0.055
OAMS- 364	2	12/ 4/79	0.98	0.94	1.00		0.015		0.052
OAMS- 367	2	12/18/79	0.94	0.93	0.94		0.019		0.059
OAMS- 370	2	1/ 2/80	0.41	0.40	0.41		0.015		0.043
OAMS- 373	2	1/15/80	2.12	2.10	2.13		0.015		0.248
OAMS- 376	2	1/29/80	0.83	0.81	0.84		0.020		0.056
OAMS- 380	2	2/13/80	2.29	2.28	2.29	<	0.010		0.146
OAMS- 382	2	3/ 4/80	1.43	1.41	1.44		0.028		0.070
OAMS- 385	2	3/18/80	1.19	1.18	1.19		0.042		0.082
OAMS- 389	2	4/ 1/80	0.86	0.82	0.87	<	0.040		0.080

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS	
NUM. VALS.			39	39	39	39	
AVERAGE			161.	6.74	2.1	127.	
ST. DEV.			87.	0.47	0.8	88.	
MIN. VAL.			39.	5.95	1.2	25.	
MAX. VAL.			477.	7.71	5.3	365.	
	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			39	36	39	38	38
AVERAGE			0.012	0.008	0.007	0.03	0.04
ST. DEV.			0.009	0.008	0.002	0.03	0.04
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.042	0.037	0.014	0.12	0.16
	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			39	38	39	39	39
AVERAGE			1.27	1.20	1.28	0.042	0.106
ST. DEV.			0.60	0.56	0.60	0.042	0.082
MIN. VAL.			0.31	0.29	0.32	0.010	0.039
MAX. VAL.			2.51	2.28	2.52	0.253	0.429

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OAMS- 50	3	4/ 4/79	263.	8.18	3.7	284.
OAMS- 54	3	4/11/79	290.	8.78	1.8	80.
OAMS- 57	3	4/18/79	323.	9.17	1.8	63.
OAMS- 59	3	4/25/79	315.	7.05	3.6	76.
OAMS- 63	3	5/ 2/79	332.	8.11	2.1	56.
OAMS- 67	3	5/ 9/79	265.	7.11	13.0	150.
OAMS- 69	3	5/17/79	134.	6.67	1.8	231.
OAMS- 72	3	5/23/79	155.	6.78	3.3	244.
OAMS- 301	3	5/30/79	147.	7.01	3.5	224.
OAMS- 304	3	6/ 6/79	154.	6.81	4.0	190.
OAMS- 307	3	6/13/79	175.	7.50	3.5	168.
OAMS- 310	3	6/20/79	139.	6.70	4.8	54.
OAMS- 313	3	6/27/79	76.	6.67	8.7	66.
OAMS- 316	3	7/ 4/79	66.	6.03	1.4	250.
OAMS- 319	3	7/11/79	74.	6.17	1.1	192.
OAMS- 322	3	7/18/79	48.	5.72	0.6	399.
OAMS- 325	3	7/24/79	58.	5.67	1.0	320.
OAMS- 328	3	8/ 1/79	87.	6.03	2.1	342.
OAMS- 331	3	8/ 7/79	38.	5.63	0.7	298.
OAMS- 333	3	8/15/79	41.	5.34	0.6	276.
OAMS- 336	3	8/21/79	45.	5.36	0.8	290.
OAMS- 339	3	8/28/79	50.	5.37	1.0	252.
OAMS- 342	3	9/ 3/79	26.	5.10	1.8	188.
OAMS- 345	3	9/12/79	37.	5.34	0.7	242.
OAMS- 349	3	9/19/79	33.	5.42	0.5	252.
OAMS- 353	3	10/10/79	39.	5.29	4.8	218.
OAMS- 356	3	10/24/79	47.	5.53	0.8	207.
OAMS- 359	3	11/ 6/79	52.	6.13	1.0	182.
OAMS- 362	3	11/20/79	53.	6.44	0.9	180.
OAMS- 365	3	12/ 4/79	127.	7.01	0.9	165.
OAMS- 368	3	12/18/79	119.	6.82	1.5	181.
OAMS- 371	3	1/ 2/80	108.	6.56	1.3	173.
OAMS- 374	3	1/15/80	206.	6.93	1.1	154.
OAMS- 377	3	1/29/80	113.	6.57	1.1	165.
OAMS- 379	3	2/13/80	150.	7.05	3.8	53.
OAMS- 383	3	3/ 4/80	91.	6.23	0.9	158.
OAMS- 386	3	3/18/80	107.	6.51	2.6	193.
OAMS- 390	3	4/ 1/80	124.	6.62	43.0	187.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OAMS- 50	3	4/ 4/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OAMS- 54	3	4/11/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 57	3	4/18/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OAMS- 59	3	4/25/79	0.077	0.067	0.010	0.21	0.29
OAMS- 63	3	5/ 2/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 67	3	5/ 9/79	0.023	0.015	< 0.008	< 0.04	0.06
OAMS- 69	3	5/17/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 72	3	5/23/79	< 0.008	< 0.004	< 0.008	0.02	0.03
OAMS- 301	3	5/30/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OAMS- 304	3	6/ 6/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OAMS- 307	3	6/13/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OAMS- 310	3	6/20/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OAMS- 313	3	6/27/79	0.034	0.026	< 0.008	< 0.01	0.04
OAMS- 316	3	7/ 4/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OAMS- 319	3	7/11/79	0.005		0.007	0.01	0.02
OAMS- 322	3	7/18/79	0.011		0.012	0.02	0.03
OAMS- 325	3	7/24/79	0.011		0.013	< 0.01	0.02
OAMS- 328	3	8/ 1/79	0.012		0.014	0.05	0.06
OAMS- 331	3	8/ 7/79	0.009		0.010	0.02	0.03
OAMS- 333	3	8/15/79	0.004		0.008	0.02	0.02
OAMS- 336	3	8/21/79	0.008		0.009	0.02	0.03
OAMS- 339	3	8/28/79	0.006		0.008	0.01	0.02
OAMS- 342	3	9/ 3/79	< 0.004	< 0.004	0.005	< 0.04	< 0.01
OAMS- 345	3	9/12/79	0.005		0.008	0.02	0.03
OAMS- 349	3	9/19/79	< 0.004	< 0.004	0.008	< 0.01	< 0.01
OAMS- 353	3	10/10/79	0.006		0.007	0.02	0.03
OAMS- 356	3	10/24/79	0.005		0.008	0.04	0.05
OAMS- 359	3	11/ 6/79	< 0.004	< 0.004	0.006	0.02	0.02
OAMS- 362	3	11/20/79	0.005	< 0.004	0.005	0.02	0.03
OAMS- 365	3	12/ 4/79	0.005	< 0.004	0.005	0.02	0.03
OAMS- 368	3	12/18/79	0.006	< 0.004	0.005	0.02	0.03
OAMS- 371	3	1/ 2/80	0.006		0.007	0.01	0.02
OAMS- 374	3	1/15/80	0.008	< 0.004	0.006	0.02	0.03
OAMS- 377	3	1/29/80	0.006		0.007	0.01	0.02
OAMS- 379	3	2/13/80	0.005	< 0.004	< 0.004	< 0.01	0.02
OAMS- 383	3	3/ 4/80	0.171	0.167	0.004	0.02	0.19
OAMS- 386	3	3/18/80	< 0.004	< 0.004	0.005	0.14	0.14
OAMS- 390	3	4/ 1/80	0.024	0.018	0.006	0.38	0.40

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO4 MG P/L
OAMS- 50	3	4/ 4/79	1.98	1.97	1.99	<	0.010	0.090
OAMS- 54	3	4/11/79	1.34	1.30	1.35	<	0.040	0.065
OAMS- 57	3	4/18/79	1.60	1.59	1.61		0.010	0.080
OAMS- 59	3	4/25/79	1.77	1.56	1.85	<	0.040	0.110
OAMS- 63	3	5/ 2/79	1.48	1.44	1.49	<	0.010	0.077
OAMS- 67	3	5/ 9/79	3.95	3.91	3.97	<	0.040	0.227
OAMS- 69	3	5/17/79	2.02	1.98	2.03	<	0.040	0.136
OAMS- 72	3	5/23/79	2.20	2.18	2.21		0.017	0.108
OAMS- 301	3	5/30/79	2.13	2.09	2.14	<	0.010	0.117
OAMS- 304	3	6/ 6/79	2.32	2.31	2.33	<	0.010	0.082
OAMS- 307	3	6/13/79	2.34	2.33	2.35	<	0.010	0.154
OAMS- 310	3	6/20/79	1.64	1.63	1.65	<	0.010	0.103
OAMS- 313	3	6/27/79	1.13	1.12	1.16		0.027	0.177
OAMS- 316	3	7/ 4/79	1.99	1.98	2.00		0.047	0.130
OAMS- 319	3	7/11/79	1.87	1.86	1.88		0.023	0.093
OAMS- 322	3	7/18/79	2.20	2.18	2.21		0.058	0.126
OAMS- 325	3	7/24/79	2.91	2.90	2.92		0.027	0.137
OAMS- 328	3	8/ 1/79	2.97	2.92	2.98		0.025	0.122
OAMS- 331	3	8/ 7/79	1.51	1.49	1.52		0.019	0.069
OAMS- 333	3	8/15/79	1.43	1.41	1.43		0.020	0.062
OAMS- 336	3	8/21/79	1.49	1.47	1.50		0.018	0.072
OAMS- 339	3	8/28/79	2.34	2.33	2.35		0.015	0.112
OAMS- 342	3	9/ 3/79	1.04	1.00	1.04		0.050	0.086
OAMS- 345	3	9/12/79	1.46	1.44	1.47		0.025	0.060
OAMS- 349	3	9/19/79	1.47	1.46	1.47		0.014	0.043
OAMS- 353	3	10/10/79	1.42	1.40	1.43		0.011	0.037
OAMS- 356	3	10/24/79	1.38	1.34	1.39		0.016	0.056
OAMS- 359	3	11/ 6/79	0.98	0.96	0.98	<	0.010	0.045
OAMS- 362	3	11/20/79	1.63	1.61	1.64	<	0.010	0.038
OAMS- 365	3	12/ 4/79	1.33	1.31	1.34	<	0.010	0.048
OAMS- 368	3	12/18/79	1.30	1.28	1.31		0.036	0.088
OAMS- 371	3	1/ 2/80	1.39	1.38	1.40	<	0.010	0.062
OAMS- 374	3	1/15/80	1.20	1.18	1.21	<	0.010	0.065
OAMS- 377	3	1/29/80	1.20	1.19	1.21		0.012	0.075
OAMS- 379	3	2/13/80	1.17	1.16	1.18		0.021	0.162
OAMS- 383	3	3/ 4/80	1.20	1.18	1.37	<	0.010	0.025
OAMS- 386	3	3/18/80	2.20	2.06	2.20	<	0.010	0.069
OAMS- 390	3	4/ 1/80	3.28	2.90	3.30		0.012	0.283

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OAMS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			38	38	38	38
AVERAGE			124.	6.51	3.5	195.
ST. DEV.			89.	0.96	7.0	84.
MIN. VAL.			26.	5.10	0.5	53.
MAX. VAL.			332.	9.17	43.0	399.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			38	25	38	38	38
AVERAGE			0.015	0.015	0.008	0.04	0.05
ST. DEV.			0.029	0.034	0.002	0.07	0.08
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.171	0.167	0.014	0.38	0.40

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			38	38	38	38	38
AVERAGE			1.80	1.76	1.81	0.021	0.097
ST. DEV.			0.66	0.64	0.66	0.014	0.053
MIN. VAL.			0.98	0.96	0.98	0.010	0.025
MAX. VAL.			3.95	3.91	3.97	0.058	0.283

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP, DOWN STREAM	DISCHARGE	WEATHER	SAMP TYP
OAMS- 51	4/ 4/79	1046.	1			2=SLIGHT OVERCAST	
OAMS- 55	4/11/79	1241.	1			2=SLIGHT OVERCAST	
OAMS- 58	4/18/79	1153.	1			1=CLEAR	
OAMS- 60	4/25/79	1132.	1			4=VERY OVERCAST	
OAMS- 64	5/ 2/79	1306.	1			3=MEDIUM OVERCAST	
OAMS- 66	5/ 9/79	1305.	1			6=RAIN	
OAMS- 70	5/17/79	1523.	1			4=VERY OVERCAST	
OAMS- 73	5/23/79	1137.	1			4=VERY OVERCAST	
OAMS- 302	5/30/79	1244.	1			3=MEDIUM OVERCAST	
OAMS- 305	6/ 6/79	1240.	1			2=SLIGHT OVERCAST	
OAMS- 308	6/13/79	1135.	1			4=VERY OVERCAST	
OAMS- 311	6/20/79	1237.	1			1=CLEAR	
OAMS- 314	6/27/79	1231.	1			3=MEDIUM OVERCAST	
OAMS- 317	7/ 4/79	1314.	1			1=CLEAR	
OAMS- 320	7/11/79	1400.	1			2=SLIGHT OVERCAST	
OAMS- 323	7/18/79	1401.	1			2=SLIGHT OVERCAST	
OAMS- 326	7/24/79	1328.	1			4=VERY OVERCAST	
OAMS- 329	8/ 1/79	1220.	1			2=SLIGHT OVERCAST	
OAMS- 334	8/15/79	1404.	1			3=MEDIUM OVERCAST	
OAMS- 337	8/21/79	1320.	1			3=MEDIUM OVERCAST	
OAMS- 340	8/28/79	1355.	1			3=MEDIUM OVERCAST	
OAMS- 343	9/ 3/79	1420.	1			3=MEDIUM OVERCAST	
OAMS- 346	9/12/79	1245.	1			4=VERY OVERCAST	
OAMS- 348	9/19/79	1237.	1			3=MEDIUM OVERCAST	
OAMS- 351	9/25/79	1325.	1			3=MEDIUM OVERCAST	
OAMS- 354	10/10/79	1300.	1			2=SLIGHT OVERCAST	
OAMS- 357	10/24/79	1304.	1			3=MEDIUM OVERCAST	
OAMS- 360	11/ 6/79	1300.	1			3=MEDIUM OVERCAST	
OAMS- 363	11/20/79	1301.	1			2=SLIGHT OVERCAST	
OAMS- 366	12/ 4/79	1315.	1			3=MEDIUM OVERCAST	
OAMS- 369	12/18/79	1232.	1			1=CLEAR	
OAMS- 372	1/ 2/80	1245.	1			1=CLEAR	
OAMS- 375	1/15/80	1320.	1			2=SLIGHT OVERCAST	
OAMS- 378	1/29/80	1420.	1			1=CLEAR	
OAMS- 381	2/13/80	1305.	1			3=MEDIUM OVERCAST	
OAMS- 384	3/ 4/80	1450.	1			3=MEDIUM OVERCAST	
OAMS- 387	3/18/80	1330.	1			3=MEDIUM OVERCAST	
OAMS- 391	4/ 1/80	1330.	1			6=RAIN	
OAMS- 52	4/ 4/79	1113.	2			2=SLIGHT OVERCAST	
OAMS- 53	4/11/79	1123.	2			2=SLIGHT OVERCAST	

COMMENTS FOR SELECTED SAMPLES OF PROJECT OAMS DATE OF PRINT

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OAMS- 56	4/18/79	1057.	2			1=CLEAR	
OAMS- 61	4/25/79	1151.	2			4=VERY OVERCAST	
OAMS- 62	5/ 2/79	1100.	2			3=MEDIUM OVERCAST	
OAMS- 65	5/ 9/79	1100.	2			4=VERY OVERCAST	
OAMS- 68	5/17/79	1320.	2			3=MEDIUM OVERCAST	
OAMS- 71	5/23/79	944.	2			3=MEDIUM OVERCAST	
OAMS- 300	5/30/79	1118.	2			3=MEDIUM OVERCAST	
OAMS- 303	6/ 6/79	1109.	2			1=CLEAR	
OAMS- 306	6/13/79	1044.	2			4=VERY OVERCAST	
OAMS- 309	6/20/79	1116.	2			1=CLEAR	
OAMS- 312	6/27/79	1104.	2			3=MEDIUM OVERCAST	
OAMS- 315	7/ 4/79	1149.	2			1=CLEAR	
OAMS- 318	7/11/79	1129.	2			2=SLIGHT OVERCAST	
OAMS- 321	7/18/79	1239.	2			2=SLIGHT OVERCAST	
OAMS- 324	7/24/79	1149.	2			4=VERY OVERCAST	
OAMS- 327	8/ 1/79	1105.	2			1=CLEAR	
OAMS- 330	8/ 7/79	1121.	2			4=VERY OVERCAST	
OAMS- 332	8/15/79	1213.	2			3=MEDIUM OVERCAST	
OAMS- 335	8/21/79	1144.	2			3=MEDIUM OVERCAST	
OAMS- 338	8/28/79	1215.	2			3=MEDIUM OVERCAST	
OAMS- 341	9/ 3/79	1213.	2			3=MEDIUM OVERCAST	
OAMS- 344	9/12/79	1105.	2			4=VERY OVERCAST	
OAMS- 347	9/19/79	1115.	2			3=MEDIUM OVERCAST	
OAMS- 350	9/25/79	1226.	2			3=MEDIUM OVERCAST	
OAMS- 352	10/10/79	1110.	2			2=SLIGHT OVERCAST	
OAMS- 355	10/24/79	1115.	2			2=SLIGHT OVERCAST	
OAMS- 358	11/ 6/79	1140.	2			2=SLIGHT OVERCAST	
OAMS- 361	11/20/79	1127.	2			1=CLEAR	
OAMS- 364	12/ 4/79	1130.	2			3=MEDIUM OVERCAST	
OAMS- 367	12/18/79	1038.	2			1=CLEAR	
OAMS- 370	1/ 2/80	1110.	2			1=CLEAR	
OAMS- 373	1/15/80	1122.	2			4=VERY OVERCAST	
OAMS- 376	1/29/80	1230.	2			1=CLEAR	
OAMS- 380	2/13/80	1245.	2			3=MEDIUM OVERCAST	
OAMS- 382	3/ 4/80	1325.	2			2=SLIGHT OVERCAST	
OAMS- 385	3/18/80	1110.	2			3=MEDIUM OVERCAST	
OAMS- 389	4/ 1/80	1214.	2			6=RAIN	
OAMS- 50	4/ 4/79	1025.	3			2=SLIGHT OVERCAST	
OAMS- 54	4/11/79	1156.	3			3=MEDIUM OVERCAST	
OAMS- 57	4/18/79	1131.	3			1=CLEAR	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OAMS- 59	4/25/79	1112.	3			4=VERY OVERCAST	
OAMS- 63	5/ 2/79	1249.	3			3=MEDIUM OVERCAST	
OAMS- 67	5/ 9/79	1335.	3			6=RAIN	
OAMS- 69	5/17/79	1438.	3			3=MEDIUM OVERCAST	
OAMS- 72	5/23/79	1110.	3			4=VERY OVERCAST	
OAMS- 301	5/30/79	1159.	3			3=MEDIUM OVERCAST	
OAMS- 304	6/ 6/79	1156.	3			2=SLIGHT OVERCAST	
OAMS- 307	6/13/79	1117.	3			4=VERY OVERCAST	
OAMS- 310	6/20/79	1150.	3			1=CLEAR	
OAMS- 313	6/27/79	1146.	3			3=MEDIUM OVERCAST	
OAMS- 316	7/ 4/79	1248.	3			1=CLEAR	
OAMS- 319	7/11/79	1338.	3			2=SLIGHT OVERCAST	
OAMS- 322	7/18/79	1341.	3			2=SLIGHT OVERCAST	
OAMS- 325	7/24/79	1256.	3			4=VERY OVERCAST	
OAMS- 328	8/ 1/79	1200.	3			1=CLEAR	
OAMS- 331	8/ 7/79	1307.	3			4=VERY OVERCAST	
OAMS- 333	8/15/79	1342.	3			3=MEDIUM OVERCAST	
OAMS- 336	8/21/79	1300.	3			3=MEDIUM OVERCAST	
OAMS- 339	8/28/79	1333.	3			3=MEDIUM OVERCAST	
OAMS- 342	9/ 3/79	1331.	3			3=MEDIUM OVERCAST	
OAMS- 345	9/12/79	1200.	3			4=VERY OVERCAST	
OAMS- 349	9/19/79	1255.	3			3=MEDIUM OVERCAST	
OAMS- 353	10/10/79	1245.	3			2=SLIGHT OVERCAST	
OAMS- 356	10/24/79	1245.	3			2=SLIGHT OVERCAST	
OAMS- 359	11/ 6/79	1245.	3			3=MEDIUM OVERCAST	
OAMS- 362	11/20/79	1245.	3			2=SLIGHT OVERCAST	
OAMS- 365	12/ 4/79	1300.	3			3=MEDIUM OVERCAST	
OAMS- 368	12/18/79	1207.	3			1=CLEAR	
OAMS- 371	1/ 2/80	1214.	3			1=CLEAR	
OAMS- 374	1/15/80	1248.	3			2=SLIGHT OVERCAST	
OAMS- 377	1/29/80	1332.	3			1=CLEAR	
OAMS- 379	2/13/80	1131.	3			3=MEDIUM OVERCAST	
OAMS- 383	3/ 4/80	1430.	3			2=SLIGHT OVERCAST	
OAMS- 386	3/18/80	1245.	3			3=MEDIUM OVERCAST	
OAMS- 390	4/ 1/80	1312.	3			6=RAIN	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OBAS- 38	1	4/ 2/79	321.	7.28	17.0	37.
OBAS- 39	1	4/ 9/79	405.	7.48	36.5	393.
OBAS- 41	1	5/ 1/79	236.	8.59	14.5	201.
OBAS- 44	1	5/14/79	80.	6.59	6.0	206.
OBAS- 48	1	5/21/79	150.	6.56	5.0	284.
OBAS- 51	1	5/27/79	82.	6.19	1.2	173.
OBAS- 300	1	5/30/79	89.	6.62	1.8	228.
OBAS- 302	1	5/31/79	112.	6.38	1.3	235.
OBAS- 306	1	6/ 4/79	122.	6.43	3.5	237.
OBAS- 310	1	6/11/79	136.	6.85	15.0	305.
OBAS- 311	1	6/25/79	213.	8.96	20.0	253.
OBAS- 312	1	7/16/79	98.	6.48	17.0	106.
OBAS- 316	1	7/27/79	197.	7.68	4.0	233.
OBAS- 320	1	8/ 6/79	158.	6.52	4.4	186.
OBAS- 324	1	8/13/79	122.	6.22	1.3	383.
OBAS- 328	1	8/20/79	127.	6.34	3.5	322.
OBAS- 331	1	8/27/79	126.	6.67	3.6	224.
OBAS- 335	1	9/ 5/79	59.	6.37	1.0	283.
OBAS- 339	1	9/10/79	85.	6.20	0.6	243.
OBAS- 343	1	9/24/79	93.	6.18	0.9	322.
OBAS- 347	1	10/ 8/79	109.	6.40	1.8	251.
OBAS- 351	1	10/22/79	145.	6.86	3.0	270.
OBAS- 352	1	11/ 5/79	173.	7.14	6.8	378.
OBAS- 353	1	11/19/79	347.	6.83	18.5	535.
OBAS- 354	1	12/17/79	266.	7.11	3.2	359.
OBAS- 356	1	12/31/79	361.	7.41	18.0	541.
OBAS- 357	1	1/14/80	213.	7.52	8.0	194.
OBAS- 358	1	1/28/80	167.	6.86	1.8	158.
OBAS- 362	1	2/12/80	294.	6.74	4.3	262.
OBAS- 366	1	2/19/80	79.	6.38	4.1	122.
OBAS- 367	1	2/19/80	88.	6.45	2.4	140.
OBAS- 368	1	2/19/80	116.	6.47	3.5	175.
OBAS- 369	1	2/20/80	102.	6.42	1.9	171.
OBAS- 370	1	2/20/80	110.	6.39	3.0	202.
OBAS- 371	1	2/20/80	120.	6.48	2.5	201.
OBAS- 372	1	2/20/80	124.	6.43	2.2	229.
OBAS- 379	1	2/20/80	120.	6.51	2.8	254.
OBAS- 380	1	2/20/80	114.	6.48	2.2	261.
OBAS- 381	1	2/21/80	140.	6.49	2.3	259.
OBAS- 382	1	2/21/80	126.	6.48	2.2	263.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OBAS- 38	1	4/ 2/79	0.017	< 0.004	0.014	0.35	0.37
OBAS- 39	1	4/ 9/79	0.036	0.005	0.031		
OBAS- 41	1	5/ 1/79	< 0.008	< 0.004	0.009	< 0.04	< 0.01
OBAS- 44	1	5/14/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OBAS- 48	1	5/21/79	< 0.008	< 0.004	0.010	0.06	0.07
OBAS- 51	1	5/27/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OBAS- 300	1	5/30/79	< 0.008	< 0.004	0.008	< 0.04	< 0.01
OBAS- 302	1	5/31/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OBAS- 306	1	6/ 4/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OBAS- 310	1	6/11/79	< 0.008	< 0.004	0.010	0.02	0.03
OBAS- 311	1	6/25/79	< 0.008	< 0.004	< 0.008	0.01	0.02
OBAS- 312	1	7/16/79	0.273	0.262	0.011	0.07	0.34
OBAS- 316	1	7/27/79	0.008	< 0.004	0.008	< 0.01	0.02
OBAS- 320	1	8/ 6/79	0.007	< 0.004	0.007	0.02	0.03
OBAS- 324	1	8/13/79	0.011		0.014	0.02	0.03
OBAS- 328	1	8/20/79	0.010		0.012	0.04	0.05
OBAS- 331	1	8/27/79	0.016	0.007	0.009	0.01	0.03
OBAS- 335	1	9/ 5/79	0.005		0.010	0.03	0.04
OBAS- 339	1	9/10/79	0.005		0.009	< 0.04	0.05
OBAS- 343	1	9/24/79	0.004		0.013	< 0.01	0.01
OBAS- 347	1	10/ 8/79	0.006		0.008	0.02	0.03
OBAS- 351	1	10/22/79	0.010		0.011	0.09	0.10
OBAS- 352	1	11/ 5/79	0.015		0.016	0.30	0.31
OBAS- 353	1	11/19/79	0.046	0.018	0.028	4.56	4.61
OBAS- 354	1	12/17/79	0.016	< 0.004	0.015	0.11	0.13
OBAS- 356	1	12/31/79	0.018		0.019	0.04	0.06
OBAS- 357	1	1/14/80	0.011	< 0.004	0.007	0.02	0.03
OBAS- 358	1	1/28/80	0.005		0.006	0.01	0.02
OBAS- 362	1	2/12/80	0.009		0.010	< 0.01	0.02
OBAS- 366	1	2/19/80	0.012	0.008	< 0.004	0.03	0.04
OBAS- 367	1	2/19/80	0.009	0.005	0.004	0.02	0.03
OBAS- 368	1	2/19/80	0.008	< 0.004	0.006	0.01	0.02
OBAS- 369	1	2/20/80	0.008	< 0.004	0.006	< 0.01	0.02
OBAS- 370	1	2/20/80	0.008	< 0.004	0.007	< 0.01	0.02
OBAS- 371	1	2/20/80	0.008	< 0.004	0.007	< 0.01	0.02
OBAS- 372	1	2/20/80	0.008	< 0.004	0.008	0.01	0.02
OBAS- 379	1	2/20/80	0.005		0.009	0.02	0.03
OBAS- 380	1	2/20/80	0.007		0.010	0.01	0.02
OBAS- 381	1	2/21/80	0.026	0.015	0.011	0.02	0.05
OBAS- 382	1	2/21/80	0.009		0.011	0.02	0.03

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OBAS- 38	1	4/ 2/79	4.05	3.70	4.07	0.113	0.296
OBAS- 39	1	4/ 9/79	16.04		16.08		0.804
OBAS- 41	1	5/ 1/79	2.90	2.86	2.91	0.235	0.465
OBAS- 44	1	5/14/79	2.53	2.49	2.54	0.585	0.806
OBAS- 48	1	5/21/79	2.80	2.74	2.81	0.868	0.978
OBAS- 51	1	5/27/79	1.51	1.47	1.52	2.078	2.236
OBAS- 300	1	5/30/79	1.71	1.67	1.72	1.381	1.346
OBAS- 302	1	5/31/79	1.59	1.58	1.60	1.338	1.341
OBAS- 306	1	6/ 4/79	2.82	2.81	2.83	0.956	1.047
OBAS- 310	1	6/11/79	4.25	4.23	4.26	0.480	1.076
OBAS- 311	1	6/25/79	6.37	6.36	6.38	0.397	1.032
OBAS- 312	1	7/16/79	9.15	9.08	9.42	0.463	0.971
OBAS- 316	1	7/27/79	3.42	3.41	3.43	1.120	1.383
OBAS- 320	1	8/ 6/79	2.76	2.74	2.77	0.988	1.218
OBAS- 324	1	8/13/79	2.73	2.71	2.74	0.705	0.857
OBAS- 328	1	8/20/79	2.57	2.53	2.58	0.464	0.630
OBAS- 331	1	8/27/79	2.37	2.36	2.39	0.266	0.428
OBAS- 335	1	9/ 5/79	1.71	1.68	1.72	0.905	0.973
OBAS- 339	1	9/10/79	1.64	1.60	1.65	0.700	0.802
OBAS- 343	1	9/24/79	1.92	1.91	1.92	0.526	0.618
OBAS- 347	1	10/ 8/79	1.29	1.27	1.30	0.193	0.284
OBAS- 351	1	10/22/79	2.82	2.73	2.83	0.247	0.418
OBAS- 352	1	11/ 5/79	5.88	5.58	5.90	0.435	0.907
OBAS- 353	1	11/19/79	21.76	17.20	21.81	0.242	1.566
OBAS- 354	1	12/17/79	5.00	4.89	5.02	1.482	1.853
OBAS- 356	1	12/31/79	12.67	12.63	12.69	1.100	2.409
OBAS- 357	1	1/14/80	4.09	4.07	4.10	0.553	0.938
OBAS- 358	1	1/28/80	2.24	2.23	2.25	0.695	0.709
OBAS- 362	1	2/12/80	3.11	3.10	3.12	0.922	1.154
OBAS- 366	1	2/19/80	1.36	1.33	1.37	0.314	0.434
OBAS- 367	1	2/19/80	1.52	1.50	1.53	0.429	0.534
OBAS- 368	1	2/19/80	1.55	1.54	1.56	0.738	0.893
OBAS- 369	1	2/20/80	1.45	1.44	1.46	0.718	0.850
OBAS- 370	1	2/20/80	1.63	1.62	1.64	1.366	1.487
OBAS- 371	1	2/20/80	1.80	1.79	1.81	1.291	1.357
OBAS- 372	1	2/20/80	1.88	1.87	1.89	2.029	2.268
OBAS- 379	1	2/20/80	< 0.20	< 0.10	0.21	2.272	2.649
OBAS- 380	1	2/20/80	< 0.20	< 0.10	0.21	2.471	2.784
OBAS- 381	1	2/21/80	< 0.20	< 0.10	0.23	2.460	2.739
OBAS- 382	1	2/21/80	2.48	2.46	2.49	2.404	2.638

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OBAS- 383	1	2/21/80	126.	6.50	2.0	262.
OBAS- 384	1	2/21/80	136.	6.37	1.9	258.
OBAS- 396	1	2/21/80	147.	6.56	2.0	269.
OBAS- 397	1	2/21/80	147.	6.52	1.4	272.
OBAS- 398	1	2/22/80	150.	6.44	1.8	270.
OBAS- 399	1	2/22/80	148.	6.41	1.8	275.
OBAS- 400	1	2/22/80	146.	6.35	1.7	280.
OBAS- 401	1	2/22/80	148.	6.42	1.6	276.
OBAS- 409	1	3/ 3/80	151.	6.52	1.0	257.
OBAS- 411	1	3/17/80	207.	6.83	4.0	332.
OBAS- 413	1	3/31/80	151.	6.73	4.8	191.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OBAS- 383	1	2/21/80	0.009		0.010	0.01	0.02
OBAS- 384	1	2/21/80	0.008		0.011	0.01	0.02
OBAS- 396	1	2/21/80	0.008		0.010	0.03	0.04
OBAS- 397	1	2/21/80	0.008		0.010	0.03	0.04
OBAS- 398	1	2/22/80	0.007		0.010	0.03	0.04
OBAS- 399	1	2/22/80	0.008		0.011	0.03	0.04
OBAS- 400	1	2/22/80	0.008		0.011	0.02	0.03
OBAS- 401	1	2/22/80	0.007		0.011	0.01	0.02
OBAS- 409	1	3/ 3/80	0.005		0.006	0.01	0.02
OBAS- 411	1	3/17/80	0.012	< 0.004	0.011	0.06	0.07
OBAS- 413	1	3/31/80	0.018	0.010	0.008	0.15	0.17

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OBAS- 383	1	2/21/80	2.36	2.35	2.37	2.471	2.728
OBAS- 384	1	2/21/80	2.03	2.02	2.04	2.217	2.448
OBAS- 396	1	2/21/80	2.37	2.34	2.38	2.480	2.743
OBAS- 397	1	2/21/80	2.14	2.11	2.15	2.542	2.840
OBAS- 398	1	2/22/80	2.17	2.14	2.18	2.262	2.539
OBAS- 399	1	2/22/80	1.93	1.90	1.94	2.480	2.786
OBAS- 400	1	2/22/80	1.87	1.85	1.88	2.438	2.679
OBAS- 401	1	2/22/80	1.93	1.92	1.94	2.428	2.625
OBAS- 409	1	3/ 3/80	2.04	2.03	2.05	0.984	1.062
OBAS- 411	1	3/17/80	3.64	3.58	3.65	1.287	1.594
OBAS- 413	1	3/31/80	2.40	2.25	2.42	0.687	0.889

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			51	51	51	51
AVERAGE			157.	6.71	5.4	255.
ST. DEV.			76.	0.55	6.9	90.
MIN. VAL.			59.	6.18	0.6	37.
MAX. VAL.			405.	8.96	36.5	541.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			51	28	51	50	50
AVERAGE			0.016	0.015	0.010	0.13	0.15
ST. DEV.			0.037	0.049	0.005	0.64	0.65
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.273	0.262	0.031	4.56	4.61

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			51	50	51	50	51
AVERAGE			3.39	3.00	3.41	1.184	1.434
ST. DEV.			3.83	2.93	3.85	0.815	0.836
MIN. VAL.			0.20	0.10	0.21	0.113	0.284
MAX. VAL.			21.76	17.20	21.81	2.542	2.840

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTIN(

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OBAS- 46	2	5/14/79	180.	7.01	12.0	256.
OBAS- 50	2	5/27/79	104.	6.41	1.2	188.
OBAS- 304	2	5/31/79	146.	6.73	1.5	236.
OBAS- 308	2	6/ 4/79	150.	7.10	2.7	224.
OBAS- 314	2	7/16/79	52.	6.96	4.5	31.
OBAS- 318	2	7/27/79	146.	9.08	1.4	100.
OBAS- 322	2	8/ 6/79	90.	6.56	1.2	130.
OBAS- 327	2	8/13/79	204.	6.32	1.5	206.
OBAS- 329	2	8/20/79	127.	6.64	1.0	265.
OBAS- 333	2	8/27/79	113.	7.36	3.3	121.
OBAS- 337	2	9/ 5/79	68.	6.28	0.7	254.
OBAS- 341	2	9/10/79	104.	6.18	1.1	268.
OBAS- 345	2	9/24/79	116.	6.31	0.6	256.
OBAS- 349	2	10/ 8/79	131.	6.67	1.4	265.
OBAS- 360	2	1/28/80	123.	6.44	2.0	176.
OBAS- 364	2	2/12/80	266.	6.97	2.8	181.
OBAS- 373	2	2/19/80	114.	6.46	2.5	261.
OBAS- 374	2	2/19/80	120.	6.47	2.5	271.
OBAS- 375	2	2/20/80	118.	6.38	2.3	268.
OBAS- 376	2	2/20/80	114.	6.38	2.5	240.
OBAS- 377	2	2/20/80	142.	6.42	2.2	262.
OBAS- 378	2	2/20/80	114.	6.42	2.4	269.
OBAS- 385	2	2/20/80	126.	6.53	2.3	277.
OBAS- 386	2	2/20/80	146.	6.48	3.0	290.
OBAS- 402	2	2/21/80	155.	6.63	2.0	296.
OBAS- 403	2	2/21/80	155.	6.87	1.8	308.
OBAS- 387	2	2/22/80	140.	6.48	1.8	295.
OBAS- 388	2	2/22/80	140.	6.46	1.8	295.
OBAS- 389	2	2/22/80	144.	6.46	2.6	297.
OBAS- 390	2	2/22/80	152.	6.47	3.2	296.
OBAS- 404	2	2/22/80	155.	6.72	1.8	290.
OBAS- 405	2	2/22/80	158.	6.59	1.3	299.
OBAS- 406	2	2/22/80	160.	6.65	1.7	306.
OBAS- 407	2	2/22/80	160.	6.56	1.9	298.
OBAS- 410	2	3/ 3/80	178.	6.54	1.5	243.
OBAS- 412	2	3/17/80	281.	7.87	7.3	180.
OBAS- 415	2	3/31/80	141.	6.32	3.7	182.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OBAS- 46	2	5/14/79	< 0.008	< 0.004	< 0.008	0.06	0.07
OBAS- 50	2	5/27/79	< 0.008	< 0.004	< 0.008	0.04	0.05
OBAS- 304	2	5/31/79	< 0.008	< 0.004	0.008	0.03	0.04
OBAS- 308	2	6/ 4/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OBAS- 314	2	7/16/79	0.268	0.260	0.008	0.05	0.32
OBAS- 318	2	7/27/79	0.006	< 0.004	< 0.004	< 0.01	0.02
OBAS- 322	2	8/ 6/79	0.004		0.005	0.02	0.02
OBAS- 327	2	8/13/79	0.006		0.007	0.01	0.02
OBAS- 329	2	8/20/79	0.008		0.009	0.01	0.02
OBAS- 333	2	8/27/79	0.019	0.014	0.005	< 0.01	0.03
OBAS- 337	2	9/ 5/79	< 0.004	< 0.004	0.008	0.02	0.02
OBAS- 341	2	9/10/79	0.006		0.009	0.02	0.03
OBAS- 345	2	9/24/79	< 0.004	< 0.004	0.011	< 0.01	< 0.01
OBAS- 349	2	10/ 8/79	0.007		0.008	0.04	0.05
OBAS- 360	2	1/28/80	0.004		0.006	< 0.01	0.01
OBAS- 364	2	2/12/80	0.008	< 0.004	0.007	0.02	0.03
OBAS- 373	2	2/19/80	0.018	0.008	0.010	0.02	0.04
OBAS- 374	2	2/19/80	0.017	0.005	0.012	0.02	0.04
OBAS- 375	2	2/20/80	0.014	< 0.004	0.011	0.02	0.03
OBAS- 376	2	2/20/80	0.013	< 0.004	0.011	0.02	0.03
OBAS- 377	2	2/20/80	0.023	0.012	0.011	0.02	0.04
OBAS- 378	2	2/20/80	0.011	< 0.004	0.011	0.02	0.03
OBAS- 385	2	2/20/80	0.009		0.011	0.03	0.04
OBAS- 386	2	2/20/80	0.013	< 0.004	0.013	0.05	0.06
OBAS- 402	2	2/21/80	0.008		0.011	0.03	0.04
OBAS- 403	2	2/21/80	0.009		0.010	0.03	0.04
OBAS- 387	2	2/22/80	0.009	< 0.004	0.009	0.03	0.04
OBAS- 388	2	2/22/80	0.009		0.010	0.03	0.04
OBAS- 389	2	2/22/80	0.009		0.010	0.04	0.05
OBAS- 390	2	2/22/80	0.008		0.010	0.01	0.02
OBAS- 404	2	2/22/80	0.009		0.010	0.04	0.05
OBAS- 405	2	2/22/80	0.011	< 0.004	0.010	0.07	0.08
OBAS- 406	2	2/22/80	0.011	< 0.004	0.010	0.05	0.06
OBAS- 407	2	2/22/80	0.010	< 0.004	0.010	0.04	0.05
OBAS- 410	2	3/ 3/80	0.007		0.008	< 0.01	0.02
OBAS- 412	2	3/17/80	0.007	< 0.004	0.007	0.02	0.03
OBAS- 415	2	3/31/80	0.025	0.017	0.008	0.14	0.17

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OBAS- 46	2	5/14/79	3.71	3.65	3.72	0.309	0.664
OBAS- 50	2	5/27/79	1.85	1.81	1.86	3.135	2.995
OBAS- 304	2	5/31/79	1.70	1.67	1.71	1.005	1.056
OBAS- 308	2	6/ 4/79	2.51	2.50	2.52	0.910	1.084
OBAS- 314	2	7/16/79	0.98	0.93	1.25	0.138	0.205
OBAS- 318	2	7/27/79	1.26	1.25	1.27	0.017	0.069
OBAS- 322	2	8/ 6/79	1.33	1.31	1.33	0.507	0.592
OBAS- 327	2	8/13/79	2.01	2.00	2.02	0.617	0.742
OBAS- 329	2	8/20/79	2.07	2.06	2.08	0.288	0.439
OBAS- 333	2	8/27/79	1.87	1.86	1.89	0.085	0.273
OBAS- 337	2	9/ 5/79	1.26	1.24	1.26	0.772	0.835
OBAS- 341	2	9/10/79	1.81	1.79	1.82	0.500	0.625
OBAS- 345	2	9/24/79	1.49	1.48	1.49	0.467	0.523
OBAS- 349	2	10/ 8/79	1.60	1.56	1.61	0.353	0.462
OBAS- 360	2	1/28/80	1.46	1.45	1.46	0.671	0.691
OBAS- 364	2	2/12/80	1.97	1.95	1.98	0.251	0.356
OBAS- 373	2	2/19/80	2.36	2.34	2.38	2.979	3.154
OBAS- 374	2	2/19/80	< 0.20	< 0.10	0.22	2.990	3.232
OBAS- 375	2	2/20/80	< 0.20	< 0.10	0.21	2.835	3.064
OBAS- 376	2	2/20/80	< 0.20	< 0.10	0.21	2.714	2.952
OBAS- 377	2	2/20/80	< 0.20	< 0.10	0.22	2.658	2.896
OBAS- 378	2	2/20/80	< 0.20	< 0.10	0.21	2.703	2.974
OBAS- 385	2	2/20/80	2.13	2.10	2.14	2.758	2.896
OBAS- 386	2	2/20/80	2.13	2.08	2.14	2.703	2.896
OBAS- 402	2	2/21/80	1.86	1.83	1.87	2.096	2.378
OBAS- 403	2	2/21/80	2.06	2.03	2.07	2.003	2.292
OBAS- 387	2	2/22/80	2.04	2.01	2.05	2.603	2.829
OBAS- 388	2	2/22/80	2.17	2.14	2.18	2.548	2.694
OBAS- 389	2	2/22/80	2.01	1.97	2.02	2.426	2.605
OBAS- 390	2	2/22/80	2.48	2.47	2.49	2.217	2.403
OBAS- 404	2	2/22/80	2.51	2.47	2.52	1.961	2.292
OBAS- 405	2	2/22/80	2.12	2.05	2.13	1.961	2.173
OBAS- 406	2	2/22/80	2.01	1.96	2.02	1.961	2.216
OBAS- 407	2	2/22/80	2.47	2.43	2.48	1.847	2.141
OBAS- 410	2	3/ 3/80	2.17	2.16	2.18	1.768	1.882
OBAS- 412	2	3/17/80	3.95	3.93	3.96	0.210	0.654
OBAS- 415	2	3/31/80	2.22	2.08	2.25	1.199	1.363

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
IUM. VALS.			37	37	37	37
VERAGE			141.	6.68	2.5	240.
T. DEV.			43.	0.52	2.0	65.
IN. VAL.			52.	6.18	0.6	31.
AX. VAL.			281.	9.08	12.0	308.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
JUM. VALS.			37	23	37	37	37
VERAGE			0.017	0.017	0.009	0.03	0.05
T. DEV.			0.043	0.053	0.002	0.02	0.05
IN. VAL.			0.004	0.004	0.004	0.01	0.01
AX. VAL.			0.268	0.260	0.013	0.14	0.32

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			37	37	37	37	37
AVERAGE			1.80	1.76	1.82	1.545	1.719
ST. DEV.			0.85	0.87	0.85	1.060	1.084
MIN. VAL.			0.20	0.10	0.21	0.017	0.069
MAX. VAL.			3.95	3.93	3.96	3.135	3.232

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OBAS- 40	3	4/23/79	935.	7.97	0.6	13.
OBAS- 42	3	5/ 1/79	820.	7.18	9.0	88.
OBAS- 43	3	5/ 7/79	325.	7.60	6.4	59.
OBAS- 47	3	5/14/79	320.	6.74	3.2	192.
OBAS- 49	3	5/21/79	313.	7.05	1.8	211.
OBAS- 53	3	5/27/79	130.	6.44	1.8	194.
OBAS- 305	3	5/31/79	181.	7.06	1.7	238.
OBAS- 309	3	6/ 4/79	185.	7.20	1.7	227.
OBAS- 315	3	7/16/79	59.	6.35	6.2	83.
OBAS- 319	3	7/27/79	247.	7.55	3.4	189.
OBAS- 323	3	8/ 6/79	238.	7.03	2.3	305.
OBAS- 326	3	8/13/79	105.	6.13	0.9	306.
OBAS- 330	3	8/20/79	226.	7.45	1.1	203.
OBAS- 334	3	8/27/79	215.	6.95	1.0	169.
OBAS- 338	3	9/ 5/79	80.	6.15	1.5	231.
OBAS- 342	3	9/10/79	160.	6.32	1.8	243.
OBAS- 346	3	9/24/79	113.	6.30	0.9	353.
OBAS- 350	3	10/ 8/79	154.	6.91	5.4	306.
OBAS- 355	3	12/17/79	249.	7.42	0.7	186.
OBAS- 361	3	1/28/80	226.	6.47	1.8	167.
OBAS- 365	3	2/12/80	344.	7.18	2.3	138.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OBAS- 40	3	4/23/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
OBAS- 42	3	5/ 1/79	< 0.008	< 0.004	< 0.008	4.55	4.56
OBAS- 43	3	5/ 7/79	0.010	< 0.004	< 0.008	0.04	0.05
OBAS- 47	3	5/14/79	0.079	0.069	0.010	0.39	0.47
OBAS- 49	3	5/21/79	0.008	< 0.004	< 0.008	0.05	0.06
OBAS- 53	3	5/27/79	< 0.008	< 0.004	< 0.008	0.09	0.10
OBAS- 305	3	5/31/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OBAS- 309	3	6/ 4/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.01
OBAS- 315	3	7/16/79	0.314	0.305	0.009	0.03	0.34
OBAS- 319	3	7/27/79	0.008	< 0.004	0.006	< 0.01	0.02
OBAS- 323	3	8/ 6/79	0.010		0.011	0.04	0.05
OBAS- 326	3	8/13/79	0.010		0.011	0.02	0.03
OBAS- 330	3	8/20/79	0.005		0.007	0.03	0.04
OBAS- 334	3	8/27/79	0.007	< 0.004	0.006	0.01	0.02
OBAS- 338	3	9/ 5/79	< 0.004	< 0.004	0.008	0.03	0.03
OBAS- 342	3	9/10/79	0.005		0.008	0.03	0.04
OBAS- 346	3	9/24/79	< 0.004	< 0.004	0.010	< 0.01	< 0.01
OBAS- 350	3	10/ 8/79	0.008		0.010	< 0.01	0.02
OBAS- 355	3	12/17/79	0.005	< 0.004	0.005	0.01	0.02
OBAS- 361	3	1/28/80	0.464	0.445	0.019	0.17	0.63
OBAS- 365	3	2/12/80	0.004	< 0.004	0.004	< 0.01	0.01

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION * 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L		TPO4 MG P/L
OBAS- 40	3	4/23/79	0.21	0.17	0.22	<	0.040	<	0.040
OBAS- 42	3	5/ 1/79	15.11	10.56	15.12	<	0.010		0.264
OBAS- 43	3	5/ 7/79	4.19	4.15	4.20	<	0.040		0.382
OBAS- 47	3	5/14/79	3.29	2.90	3.37		2.688		2.889
OBAS- 49	3	5/21/79	0.62	0.57	0.63		1.201		1.281
OBAS- 53	3	5/27/79	2.17	2.08	2.18		4.677		4.556
OBAS- 305	3	5/31/79	2.13	2.12	2.14		1.528		1.671
OBAS- 309	3	6/ 4/79	2.78	2.77	2.79		1.415		1.462
OBAS- 315	3	7/16/79	2.66	2.63	2.97		0.647		0.919
OBAS- 319	3	7/27/79	3.70	3.69	3.71		0.580		0.828
OBAS- 323	3	8/ 6/79	3.53	3.49	3.54		2.189		2.544
OBAS- 326	3	8/13/79	2.29	2.27	2.30		0.593		0.711
OBAS- 330	3	8/20/79	1.68	1.65	1.69		0.363		0.493
OBAS- 334	3	8/27/79	2.12	2.11	2.13		0.300		0.395
OBAS- 338	3	9/ 5/79	1.71	1.68	1.71		1.342		1.420
OBAS- 342	3	9/10/79	1.75	1.72	1.76		1.289		1.442
OBAS- 346	3	9/24/79	1.55	1.54	1.55		1.158		1.908
OBAS- 350	3	10/ 8/79	2.62	2.61	2.63		0.817		1.091
OBAS- 355	3	12/17/79	1.97	1.96	1.98		0.551		0.749
OBAS- 361	3	1/28/80	1.85	1.68	2.31		1.508		1.611
OBAS- 365	3	2/12/80	2.00	1.99	2.00		0.271		0.419

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			21	21	21	21
AVERAGE			268.	6.93	2.6	195.
ST. DEV.			219.	0.52	2.2	86.
MIN. VAL.			59.	6.13	0.6	13.
MAX. VAL.			935.	7.97	9.0	353.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			21	16	21	21	21
AVERAGE			0.047	0.054	0.009	0.27	0.31
ST. DEV.			0.117	0.129	0.003	0.99	0.99
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.464	0.445	0.019	4.55	4.56

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			21	21	21	21	21
AVERAGE			2.85	2.59	2.90	1.105	1.289
ST. DEV.			2.96	2.05	2.96	1.083	1.053
MIN. VAL.			0.21	0.17	0.22	0.010	0.040
MAX. VAL.			15.11	10.56	15.12	4.677	4.558

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DAT

PROJECT OBAS DATE OF PRI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OBAS- 45	4	5/14/79	41.	6.20	5.7	185.
OBAS- 52	4	5/27/79	76.	6.14	1.7	316.
OBAS- 301	4	5/30/79	79.	5.84	1.7	372.
OBAS- 303	4	5/31/79	88.	5.81	1.4	383.
OBAS- 307	4	6/ 4/79	88.	6.12	2.5	448.
OBAS- 313	4	7/16/79	31.	5.58	5.4	62.
OBAS- 317	4	7/27/79	64.	6.81	6.0	330.
OBAS- 321	4	8/ 6/79	92.	6.79	1.5	262.
OBAS- 325	4	8/13/79	86.	5.59	1.5	360.
OBAS- 332	4	8/27/79	80.	5.90	21.5	282.
OBAS- 336	4	9/ 5/79	57.	6.08	1.1	268.
OBAS- 340	4	9/10/79	50.	6.09	1.2	279.
OBAS- 344	4	9/24/79	50.	5.95	0.8	324.
OBAS- 348	4	10/ 8/79	57.	6.49	4.4	418.
OBAS- 359	4	1/28/80	60.	6.43	1.9	155.
OBAS- 363	4	2/12/80	136.	6.81	40.0	541.
OBAS- 391	4	2/20/80	80.	6.26	3.7	231.
OBAS- 392	4	2/20/80	90.	6.22	2.5	215.
OBAS- 393	4	2/20/80	88.	6.22	2.3	236.
OBAS- 394	4	2/20/80	90.	6.22	2.2	242.
OBAS- 395	4	2/20/80	88.	6.20	3.4	241.
OBAS- 408	4	3/ 3/80	99.	5.16	1.6	249.
OBAS- 414	4	3/31/80	42.	6.12	5.0	113.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
AS- 45	4	5/14/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.01
AS- 52	4	5/27/79	< 0.008	< 0.004	0.011	< 0.01	< 0.01
AS- 301	4	5/30/79	0.011		0.015	0.05	0.06
AS- 303	4	5/31/79	0.009		0.015	0.03	0.04
AS- 307	4	6/ 4/79	0.009		0.015	0.03	0.04
AS- 313	4	7/16/79	0.153	0.148	0.005	0.02	0.17
AS- 317	4	7/27/79	0.011		0.012	0.06	0.07
AS- 321	4	8/ 6/79	0.008		0.010	0.04	0.05
AS- 325	4	8/13/79	0.014	< 0.004	0.013	0.03	0.04
AS- 332	4	8/27/79	0.042	0.028	0.014	0.08	0.12
AS- 336	4	9/ 5/79	< 0.004	< 0.004	0.009	0.03	0.03
AS- 340	4	9/10/79	0.009		0.011	0.03	0.04
AS- 344	4	9/24/79	< 0.004	< 0.004	0.015	< 0.01	< 0.01
AS- 348	4	10/ 8/79	0.012		0.015	0.04	0.05
AS- 359	4	1/28/80	0.005		0.006	0.02	0.03
AS- 363	4	2/12/80	0.069	0.041	0.028	0.05	0.12
AS- 391	4	2/20/80	0.010	< 0.004	0.008	0.05	0.06
AS- 392	4	2/20/80	0.007		0.008	0.04	0.05
AS- 393	4	2/20/80	0.008	< 0.004	0.008	0.04	0.05
AS- 394	4	2/20/80	0.006		0.008	0.05	0.06
AS- 395	4	2/20/80	0.007		0.008	0.04	0.05
AS- 408	4	3/ 3/80	0.008	< 0.004	0.008	0.03	0.04
AS- 414	4	3/31/80	0.013	0.009	0.004	0.04	0.05

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OBAS- 45	4	5/14/79	1.93	1.89	1.94	0.296	0.426
OBAS- 52	4	5/27/79	2.26	2.25	2.27	0.515	0.577
OBAS- 301	4	5/30/79	2.59	2.54	2.60	0.519	0.608
OBAS- 303	4	5/31/79	2.26	2.23	2.27	0.460	0.563
OBAS- 307	4	6/ 4/79	3.07	3.04	3.08	0.357	0.526
OBAS- 313	4	7/16/79	1.36	1.34	1.51	0.393	0.482
OBAS- 317	4	7/27/79	3.55	3.49	3.56	0.414	0.853
OBAS- 321	4	8/ 6/79	2.17	2.13	2.18	0.590	0.766
OBAS- 325	4	8/13/79	2.40	2.37	2.41	0.545	0.645
OBAS- 332	4	8/27/79	6.38	6.30	6.42	0.295	0.825
OBAS- 336	4	9/ 5/79	1.52	1.49	1.52	0.412	0.473
OBAS- 340	4	9/10/79	1.88	1.85	1.89	0.791	0.898
OBAS- 344	4	9/24/79	1.94	1.93	1.94	0.393	0.501
OBAS- 348	4	10/ 8/79	3.09	3.05	3.10	0.097	0.317
OBAS- 359	4	1/28/80	1.70	1.68	1.71	0.362	0.467
OBAS- 363	4	2/12/80	3.53	3.48	3.60	0.051	0.408
OBAS- 391	4	2/20/80	1.63	1.58	1.64	0.432	0.541
OBAS- 392	4	2/20/80	1.63	1.59	1.64	0.390	0.499
OBAS- 393	4	2/20/80	1.75	1.71	1.76	0.399	0.519
OBAS- 394	4	2/20/80	1.58	1.53	1.59	0.397	0.499
OBAS- 395	4	2/20/80	1.58	1.54	1.59	0.408	0.507
OBAS- 408	4	3/ 3/80	1.66	1.63	1.67	0.324	0.398
OBAS- 414	4	3/31/80	1.43	1.39	1.44	0.338	0.453

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OBAS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			23	23	23	23
AVERAGE			74.	6.14	5.2	283.
ST. DEV.			24.	0.39	8.7	109.
MIN. VAL.			31.	5.16	0.8	62.
MAX. VAL.			136.	6.81	40.0	541.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			23	12	23	23	23
AVERAGE			0.019	0.022	0.011	0.04	0.05
ST. DEV.			0.033	0.042	0.005	0.02	0.04
MIN. VAL.			0.004	0.004	0.004	0.01	0.01
MAX. VAL.			0.153	0.148	0.028	0.08	0.17

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			23	23	23	23	23
AVERAGE			2.30	2.26	2.32	0.399	0.554
ST. DEV.			1.10	1.09	1.11	0.149	0.151
MIN. VAL.			1.36	1.34	1.44	0.051	0.317
MAX. VAL.			6.38	6.30	6.42	0.791	0.898

SAMPLE	DATE MO/DA/YR	TIME	STATION	UR,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE	CO
OBAS- 38	4/ 2/79	952.	1			1=CLEAR		
OBAS- 39	4/ 9/79	1025.	1			3=MEDIUM OVERCAST		
OBAS- 41	5/ 1/79	1334.	1			4=VERY OVERCAST		
OBAS- 44	5/14/79	1404.	1			4=VERY OVERCAST		
OBAS- 48	5/21/79	1252.	1			1=CLEAR		
OBAS- 51	5/27/79	855.	1			2=SLIGHT OVERCAST		
OBAS- 300	5/30/79	1424.	1			4=VERY OVERCAST		
OBAS- 302	5/31/79	1233.	1			2=SLIGHT OVERCAST		
OBAS- 306	6/ 4/79	1258.	1			1=CLEAR		
OBAS- 310	6/11/79	1223.	1			2=SLIGHT OVERCAST		
OBAS- 311	6/25/79	1309.	1			2=SLIGHT OVERCAST		
OBAS- 312	7/16/79	1312.	1			4=VERY OVERCAST		
OBAS- 316	7/27/79	1429.	1			5=DRIZZLE		
OBAS- 320	8/ 6/79	1334.	1			2=SLIGHT OVERCAST		
OBAS- 324	8/13/79	1251.	1			3=MEDIUM OVERCAST		
OBAS- 328	8/20/79	1330.	1			3=MEDIUM OVERCAST		
OBAS- 331	8/27/79	1343.	1			4=VERY OVERCAST		
OBAS- 335	9/ 5/79	1444.	1			2=SLIGHT OVERCAST		
OBAS- 339	9/10/79	946.	1			4=VERY OVERCAST		
OBAS- 343	9/24/79	1404.	1			4=VERY OVERCAST		
OBAS- 347	10/ 8/79	1310.	1			1=CLEAR		
OBAS- 351	10/22/79	1300.	1			3=MEDIUM OVERCAST		
OBAS- 352	11/ 5/79	1325.	1			3=MEDIUM OVERCAST		
OBAS- 353	11/19/79	1329.	1			3=MEDIUM OVERCAST		L
OBAS- 354	12/17/79	1335.	1			3=MEDIUM OVERCAST		
OBAS- 356	12/31/79	1329.	1			3=MEDIUM OVERCAST		
OBAS- 357	1/14/80	1243.	1			3=MEDIUM OVERCAST		
OBAS- 358	1/28/80	1331.	1			4=VERY OVERCAST		
OBAS- 362	2/12/80	1222.	1			3=MEDIUM OVERCAST		
OBAS- 366	2/19/80	1600.	1				20=AUTO	
OBAS- 367	2/19/80	1600.	1				20=AUTO	
OBAS- 368	2/19/80	2005.	1				20=AUTO	
OBAS- 369	2/20/80	5.	1				20=AUTO	
OBAS- 370	2/20/80	405.	1				20=AUTO	
OBAS- 371	2/20/80	805.	1				20=AUTO	
OBAS- 372	2/20/80	1205.	1				20=AUTO	
OBAS- 379	2/20/80	1605.	1				20=AUTO	
OBAS- 380	2/20/80	2005.	1				20=AUTO	
OBAS- 381	2/21/80	5.	1				20=AUTO	
OBAS- 382	2/21/80	405.	1				20=AUTO	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OBAS- 383	2/21/80	805.	1				20=AU
OBAS- 384	2/21/80	1205.	1				20=AU
OBAS- 396	2/21/80	1605.	1				20=AU
OBAS- 397	2/21/80	2005.	1				20=AU
OBAS- 398	2/22/80	5.	1				20=AU
OBAS- 399	2/22/80	405.	1				20=AU
OBAS- 400	2/22/80	805.	1				20=AU
OBAS- 401	2/22/80	1205.	1				20=AU
OBAS- 409	3/ 3/80	1359.	1			1=CLEAR	
OBAS- 411	3/17/80	1321.	1			2=SLIGHT OVERCAST	
OBAS- 413	3/31/80	1401.	1			6=RAIN	
OBAS- 46	5/14/79	1425.	2			4=VERY OVERCAST	
OBAS- 50	5/27/79	835.	2			2=SLIGHT OVERCAST	
OBAS- 304	5/31/79	1309.	2			2=SLIGHT OVERCAST	
OBAS- 308	6/ 4/79	1319.	2			1=CLEAR	
OBAS- 314	7/16/79	1332.	2			4=VERY OVERCAST	
OBAS- 318	7/27/79	1442.	2			5=DRIZZLE	
OBAS- 322	8/ 6/79	1418.	2			3=MEDIUM OVERCAST	
OBAS- 327	8/13/79	1331.	2			3=MEDIUM OVERCAST	
OBAS- 329	8/20/79	1345.	2			3=MEDIUM OVERCAST	
OBAS- 333	8/27/79	1400.	2			4=VERY OVERCAST	
OBAS- 337	9/ 5/79	1521.	2			2=SLIGHT OVERCAST	
OBAS- 341	9/10/79	1000.	2			4=VERY OVERCAST	
OBAS- 345	9/24/79	1416.	2			4=VERY OVERCAST	
OBAS- 349	10/ 8/79	1330.	2			1=CLEAR	
OBAS- 360	1/28/80	1413.	2			3=MEDIUM OVERCAST	
OBAS- 364	2/12/80	1253.	2			3=MEDIUM OVERCAST	
OBAS- 373	2/19/80	1621.	2				20=AU
OBAS- 374	2/19/80	2022.	2				20=AU
OBAS- 375	2/20/80	22.	2				20=AU
OBAS- 376	2/20/80	422.	2				20=AU
OBAS- 377	2/20/80	822.	2				20=AU
OBAS- 378	2/20/80	1222.	2				20=AU
OBAS- 385	2/20/80	1622.	2				20=AU
OBAS- 386	2/20/80	2022.	2				20=AU
OBAS- 402	2/21/80	1622.	2				20=AU
OBAS- 403	2/21/80	2022.	2				20=AU
OBAS- 387	2/22/80	22.	2				20=AU
OBAS- 388	2/22/80	422.	2				20=AU
OBAS- 389	2/22/80	822.	2				20=AU

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPL TYP
OBAS- 390	2/22/80	1222.	2				20=AL
OBAS- 404	2/22/80	22.	2				20=AL
OBAS- 405	2/22/80	422.	2				20=AL
OBAS- 406	2/22/80	822.	2				20=AL
OBAS- 407	2/22/80	1222.	2				20=AL
OBAS- 410	3/ 3/80	1500.	2			1=CLEAR	
OBAS- 412	3/17/80	1430.	2			3=MEDIUM OVERCAST	
OBAS- 415	3/31/80	1503.	2			4=VERY OVERCAST	
OBAS- 40	4/23/79	945.	3			4=VERY OVERCAST	
OBAS- 42	5/ 1/79	1357.	3			4=VERY OVERCAST	
OBAS- 43	5/ 7/79	1014.	3			6=RAIN	
OBAS- 47	5/14/79	1442.	3			4=VERY OVERCAST	
OBAS- 49	5/21/79	1323.	3			1=CLEAR	
OBAS- 53	5/27/79	330.	3			1=CLEAR	
OBAS- 305	5/31/79	1337.	3			2=SLIGHT OVERCAST	
OBAS- 309	6/ 4/79	1332.	3			1=CLEAR	
OBAS- 315	7/16/79	1349.	3			4=VERY OVERCAST	
OBAS- 319	7/27/79	1457.	3			5=DRIZZLE	
OBAS- 323	8/ 6/79	1432.	3			3=MEDIUM OVERCAST	
OBAS- 326	8/13/79	1315.	3			3=MEDIUM OVERCAST	
OBAS- 330	8/20/79	1406.	3			3=MEDIUM OVERCAST	
OBAS- 334	8/27/79	1419.	3			4=VERY OVERCAST	
OBAS- 338	9/ 5/79	1545.	3			2=SLIGHT OVERCAST	
OBAS- 342	9/10/79	1014.	3			5=DRIZZLE	
OBAS- 346	9/24/79	1442.	3			4=VERY OVERCAST	
OBAS- 350	10/ 8/79	1315.	3			1=CLEAR	
OBAS- 355	12/17/79	1413.	3			2=SLIGHT OVERCAST	
OBAS- 361	1/28/80	1439.	3			3=MEDIUM OVERCAST	
OBAS- 365	2/12/80	1313.	3			3=MEDIUM OVERCAST	
OBAS- 45	5/14/79	1413.	4			4=VERY OVERCAST	
OBAS- 52	5/27/79	908.	4			1=CLEAR	
OBAS- 301	5/30/79	1432.	4			4=VERY OVERCAST	
OBAS- 303	5/31/79	1252.	4			2=SLIGHT OVERCAST	
OBAS- 307	6/ 4/79	1309.	4			1=CLEAR	
OBAS- 313	7/16/79	1322.	4			4=VERY OVERCAST	
OBAS- 317	7/27/79	1434.	4			5=DRIZZLE	
OBAS- 321	8/ 6/79	1345.	4			3=MEDIUM OVERCAST	
OBAS- 325	8/13/79	1259.	4			3=MEDIUM OVERCAST	
OBAS- 332	8/27/79	1349.	4			4=VERY OVERCAST	
OBAS- 336	9/ 5/79	1505.	4			2=SLIGHT OVERCAST	

COMMENTS FOR SELECTED SAMPLES OF PROJECT DBAS DATE OF PRINTI

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
DBAS- 340	9/10/79	948.	4			4=VERY OVERCAST	
DBAS- 344	9/24/79	1406.	4			4=VERY OVERCAST	
DBAS- 348	10/ 8/79	1317.	4			1=CLEAR	
DBAS- 359	1/28/80	1345.	4			4=VERY OVERCAST	
DBAS- 363	2/12/80	1243.	4			3=MEDIUM OVERCAST	
DBAS- 391	2/20/80	1330.	4				20=AUTO
DBAS- 392	2/20/80	1732.	4				20=AUTO
DBAS- 393	2/20/80	1732.	4				20=AUTO
DBAS- 394	2/20/80	1732.	4				20=AUTO
DBAS- 395	2/20/80	1732.	4				20=AUTO
DBAS- 408	3/ 3/80	1336.	4			1=CLEAR	
DBAS- 414	3/31/80	1415.	4			5=DRIZZLE	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OLKS- 227	1	4/ 2/79	81.	5.77	3.4	254.
OLKS- 236	1	4/ 9/79	110.	6.21	3.4	217.
OLKS- 239	1	4/16/79	115.	6.01	4.6	214.
OLKS- 242	1	4/23/79	150.	6.38	4.0	181.
OLKS- 245	1	4/30/79	168.	6.47	4.0	129.
OLKS- 248	1	5/ 7/79	123.	6.74	3.0	68.
OLKS- 254	1	5/21/79	61.	5.58	1.0	247.
OLKS- 302	1	5/29/79	71.	5.61	1.3	244.
OLKS- 251	1	5/41/79	92.	5.55	1.8	302.
OLKS- 305	1	6/ 4/79	61.	5.73	0.9	224.
OLKS- 308	1	6/11/79	60.	5.72	0.9	239.
OLKS- 311	1	6/18/79	64.	5.62	1.2	329.
OLKS- 314	1	6/25/79	112.	6.10	1.4	278.
OLKS- 317	1	7/ 2/79	172.	6.55	1.4	157.
OLKS- 319	1	7/ 9/79	164.	6.25	1.2	180.
OLKS- 322	1	7/16/79	195.	6.52	1.0	115.
OLKS- 325	1	7/23/79	207.	6.77	4.9	122.
OLKS- 328	1	7/30/79	217.	6.78	1.1	102.
OLKS- 329	1	8/ 6/79	212.	6.66	1.0	81.
OLKS- 332	1	8/13/79	228.	6.92	1.4	86.
OLKS- 335	1	8/20/79	86.	5.92	1.4	228.
OLKS- 338	1	8/27/79	104.	5.70	1.0	214.
OLKS- 341	1	9/ 5/79	40.	5.55	1.9	173.
OLKS- 343	1	9/10/79	38.	5.76	1.0	200.
OLKS- 345	1	9/24/79	38.	5.60	0.8	210.
OLKS- 347	1	10/ 8/79	36.	5.70	1.2	182.
OLKS- 349	1	10/22/79	49.	5.73	1.0	230.
OLKS- 351	1	11/ 5/79	57.	5.76	1.8	253.
OLKS- 355	1	11/19/79	76.	5.87	1.8	249.
OLKS- 358	1	12/ 3/79	101.	6.13	4.0	221.
OLKS- 362	1	12/17/79	103.	5.93	2.5	230.
OLKS- 365	1	12/31/79	120.	6.01	4.5	192.
OLKS- 368	1	1/14/80	160.	6.08	6.0	177.
OLKS- 371	1	1/28/80	217.	6.44	2.4	188.
OLKS- 374	1	2/12/80	155.	6.09	2.3	200.
OLKS- 377	1	3/ 3/80	176.	5.89	1.3	162.
OLKS- 380	1	3/17/80	131.	6.18	3.4	209.
OLKS- 383	1	3/31/80	212.	6.76	6.8	237.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OLKS- 227	1	4/ 2/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 236	1	4/ 9/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 239	1	4/16/79	< 0.008	< 0.004	0.008	0.01	0
OLKS- 242	1	4/23/79	0.034	0.026	< 0.008	0.07	0
OLKS- 245	1	4/30/79	0.046	0.038	< 0.008	0.05	0
OLKS- 248	1	5/ 7/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 254	1	5/21/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 302	1	5/29/79	< 0.008	< 0.004	0.010	< 0.04	< 0
OLKS- 251	1	5/41/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 305	1	6/ 4/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 308	1	6/11/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 311	1	6/18/79	< 0.008	< 0.004	0.010	0.02	0
OLKS- 314	1	6/25/79	< 0.008	< 0.004	0.009	< 0.04	< 0
OLKS- 317	1	7/ 2/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 319	1	7/ 9/79	0.005		0.006	< 0.04	0
OLKS- 322	1	7/16/79	0.008	< 0.004	0.004	< 0.01	0
OLKS- 325	1	7/23/79	0.013	0.009	< 0.004	< 0.01	0
OLKS- 328	1	7/30/79	0.013	0.007	0.006	< 0.01	0
OLKS- 329	1	8/ 6/79	0.012	0.007	0.005	0.01	0
OLKS- 332	1	8/13/79	0.030	0.026	< 0.004	0.02	0
OLKS- 335	1	8/20/79	0.008	< 0.004	0.008	0.02	0
OLKS- 338	1	8/27/79	0.049	0.042	0.007	0.02	0
OLKS- 341	1	9/ 5/79	< 0.004	< 0.004	0.006	0.02	0
OLKS- 343	1	9/10/79	< 0.004	< 0.004	0.007	0.03	0
OLKS- 345	1	9/24/79	< 0.004	< 0.004	0.008	< 0.01	< 0
OLKS- 347	1	10/ 8/79	< 0.004	< 0.004	0.005	< 0.01	< 0
OLKS- 349	1	10/22/79	< 0.004	< 0.004	0.007	0.03	0
OLKS- 351	1	11/ 5/79	< 0.004	< 0.004	0.008	0.05	0
OLKS- 355	1	11/19/79	0.013	0.005	0.008	0.08	0
OLKS- 358	1	12/ 3/79	0.017	0.009	0.008	0.08	0
OLKS- 362	1	12/17/79	0.022	0.015	0.007	0.08	0
OLKS- 365	1	12/31/79	0.013	0.006	0.007	0.03	0
OLKS- 368	1	1/14/80	0.022	0.016	0.006	0.04	0
OLKS- 371	1	1/28/80	0.372	0.364	0.008	0.08	0
OLKS- 374	1	2/12/80	0.009	< 0.004	0.006	0.05	0
OLKS- 377	1	3/ 3/80	0.010	0.006	< 0.004	0.04	0
OLKS- 380	1	3/17/80	0.009	< 0.004	0.006	0.03	0
OLKS- 383	1	3/31/80	0.029	0.022	0.007	0.14	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L		TPO4 MG P
OLKS- 227	1	4/ 2/79	2.13	2.11	2.14	<	0.010		0.0
OLKS- 236	1	4/ 9/79	2.04	2.00	2.05	<	0.040		0.0
OLKS- 239	1	4/16/79	2.51	2.50	2.52	<	0.008		0.1
OLKS- 242	1	4/23/79	1.82	1.75	1.85	<	0.040		0.0
OLKS- 245	1	4/30/79	1.57	1.52	1.62		0.025		0.1
OLKS- 248	1	5/ 7/79	2.22	2.18	2.23	<	0.040		0.0
OLKS- 254	1	5/21/79	1.59	1.57	1.60	<	0.010		0.0
OLKS- 302	1	5/29/79	1.78	1.74	1.79	<	0.010	<	0.0
OLKS- 251	1	5/41/79	2.38	2.34	2.39	<	0.040		0.0
OLKS- 305	1	6/ 4/79	1.29	1.25	1.30	<	0.040		0.0
OLKS- 308	1	6/11/79	1.40	1.38	1.41	<	0.010	<	0.0
OLKS- 311	1	6/18/79	1.39	1.37	1.40	<	0.010		0.0
OLKS- 314	1	6/25/79	1.76	1.72	1.77	<	0.010		0.0
OLKS- 317	1	7/ 2/79	1.22	1.21	1.23	<	0.010		0.0
OLKS- 319	1	7/ 9/79	1.38	1.34	1.39	<	0.040		0.0
OLKS- 322	1	7/16/79	1.34	1.33	1.35	<	0.010		0.0
OLKS- 325	1	7/23/79	1.07	1.06	1.08	<	0.010		0.0
OLKS- 328	1	7/30/79	1.32	1.31	1.33	<	0.010		0.0
OLKS- 329	1	8/ 6/79	1.13	1.12	1.14	<	0.010		0.0
OLKS- 332	1	8/13/79	1.21	1.19	1.24	<	0.010		0.0
OLKS- 335	1	8/20/79	1.55	1.53	1.56	<	0.010		0.0
OLKS- 338	1	8/27/79	1.68	1.66	1.73	<	0.010		0.0
OLKS- 341	1	9/ 5/79	1.32	1.30	1.32	<	0.010	<	0.0
OLKS- 343	1	9/10/79	1.46	1.43	1.46	<	0.010		0.0
OLKS- 345	1	9/24/79	1.38	1.37	1.38	<	0.010		0.0
OLKS- 347	1	10/ 8/79	0.94	0.93	0.94	<	0.010		0.0
OLKS- 349	1	10/22/79	1.23	1.20	1.23	<	0.010		0.0
OLKS- 351	1	11/ 5/79	2.03	1.98	2.03	<	0.010	<	0.0
OLKS- 355	1	11/19/79	1.56	1.48	1.57	<	0.010		0.0
OLKS- 358	1	12/ 3/79	2.00	1.92	2.02	<	0.010		0.0
OLKS- 362	1	12/17/79	1.34	1.26	1.36	<	0.010		0.0
OLKS- 365	1	12/31/79	1.43	1.40	1.44	<	0.010		0.0
OLKS- 368	1	1/14/80	1.88	1.84	1.90	<	0.010		0.0
OLKS- 371	1	1/28/80	1.57	1.49	1.94	<	0.010		0.0
OLKS- 374	1	2/12/80	1.39	1.34	1.40	<	0.010		0.0
OLKS- 377	1	3/ 3/80	1.41	1.37	1.42	<	0.010		0.0
OLKS- 380	1	3/17/80	1.84	1.81	1.85	<	0.010		0.0
OLKS- 383	1	3/31/80	1.80	1.66	1.83	<	0.010		0.0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			38	38	38	38
AVERAGE			120.	6.08	2.3	198.
ST. DEV.			60.	0.41	1.6	59.
MIN. VAL.			36.	5.55	0.8	68.
MAX. VAL.			228.	6.92	6.8	329.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX- MG N
NUM. VALS.			38	37	38	38	1
AVERAGE			0.022	0.019	0.007	0.04	0
ST. DEV.			0.059	0.059	0.002	0.03	0
MIN. VAL.			0.004	0.004	0.004	0.01	0
MAX. VAL.			0.372	0.364	0.010	0.14	0

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
NUM. VALS.			38	38	38	38	3
AVERAGE			1.59	1.55	1.61	0.015	0.
ST. DEV.			0.37	0.36	0.37	0.011	0.
MIN. VAL.			0.94	0.93	0.94	0.008	0.
MAX. VAL.			2.51	2.50	2.52	0.040	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINTI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
LKS- 226	2	4/ 2/79	113.	5.60	5.4	486.
LKS- 235	2	4/ 9/79	144.	5.90	7.1	535.
LKS- 238	2	4/16/79	168.	6.17	7.4	679.
LKS- 241	2	4/23/79	281.	7.05	6.9	995.
LKS- 244	2	4/30/79	218.	6.87	8.0	748.
LKS- 247	2	5/ 7/79	173.	6.75	6.6	567.
LKS- 250	2	5/14/79	60.	5.56	1.0	301.
LKS- 253	2	5/21/79	74.	5.62	0.9	357.
LKS- 301	2	5/29/79	60.	5.68	3.2	351.
LKS- 304	2	6/ 4/79	64.	5.53	0.9	407.
LKS- 307	2	6/11/79	66.	5.44	0.8	464.
LKS- 310	2	6/18/79	75.	5.22	0.8	513.
LKS- 313	2	6/25/79	85.	5.39	0.7	611.
LKS- 316	2	7/ 2/79	87.	5.54	2.5	646.
LKS- 318	2	7/ 9/79	94.	6.04	2.3	594.
LKS- 321	2	7/16/79	92.	5.87	2.5	509.
LKS- 324	2	7/23/79	104.	5.97	5.8	545.
LKS- 327	2	7/30/79	146.	6.08	6.7	677.
LKS- 331	2	8/13/79	83.	5.54	3.0	133.
LKS- 334	2	8/20/79	88.	5.42	1.3	276.
LKS- 337	2	8/27/79	68.	5.38	0.6	311.
LKS- 340	2	9/ 5/79	43.	5.82	0.6	196.
LKS- 352	2	11/ 7/79	62.	5.37	0.7	327.
LKS- 354	2	11/19/79	75.	5.25	0.6	391.
LKS- 357	2	12/ 3/79	90.	5.41	1.1	481.
LKS- 361	2	12/17/79	86.	5.18	0.8	421.
LKS- 364	2	12/31/79	101.	5.24	2.2	411.
LKS- 367	2	1/14/80	102.	5.47	2.1	355.
LKS- 370	2	1/28/80	111.	5.14	1.1	287.
LKS- 373	2	2/12/80	146.	4.92	2.3	281.
LKS- 376	2	3/ 3/80	136.	4.94	2.5	222.
LKS- 379	2	3/17/80	159.	4.87	3.8	369.
LKS- 382	2	3/31/80	165.	5.36	1.0	362.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OLKS- 226	2	4/ 2/79	0.015		0.018	1.25	1
OLKS- 235	2	4/ 9/79	0.010		0.022	4.29	4
OLKS- 238	2	4/16/79	0.023		0.033	6.61	6
OLKS- 241	2	4/23/79	< 0.008	< 0.004	< 0.008	17.99	18
OLKS- 244	2	4/30/79	0.019	0.011	< 0.008	13.60	13
OLKS- 247	2	5/ 7/79	0.029	< 0.004	0.026	11.68	11
OLKS- 250	2	5/14/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 253	2	5/21/79	< 0.008	< 0.004	0.011	0.03	0
OLKS- 301	2	5/29/79	0.009		0.017	< 0.04	0
OLKS- 304	2	6/ 4/79	0.008		0.014	0.04	0
OLKS- 307	2	6/11/79	0.012		0.017	0.06	0
OLKS- 310	2	6/18/79	< 0.008	< 0.004	0.018	0.09	0
OLKS- 313	2	6/25/79	0.016		0.020	0.11	0
OLKS- 316	2	7/ 2/79	0.015		0.022	0.50	0
OLKS- 318	2	7/ 9/79	0.023		0.024	1.01	1
OLKS- 321	2	7/16/79	0.018		0.021	1.24	1
OLKS- 324	2	7/23/79	0.021		0.022	1.52	1
OLKS- 327	2	7/30/79	0.018		0.029	5.18	5
OLKS- 331	2	8/13/79	0.455	0.442	0.013	0.30	0
OLKS- 334	2	8/20/79	0.008		0.010	0.02	0
OLKS- 337	2	8/27/79	0.049	0.042	0.007	0.05	0
OLKS- 340	2	9/ 5/79	< 0.004	< 0.004	0.007	0.02	0
OLKS- 352	2	11/ 7/79	0.006		0.010	0.05	0
OLKS- 354	2	11/19/79	0.016	< 0.004	0.014	0.14	0
OLKS- 357	2	12/ 3/79	0.015		0.017	0.56	0
OLKS- 361	2	12/17/79	0.014	< 0.004	0.014	0.24	0
OLKS- 364	2	12/31/79	0.014		0.015	0.22	0
OLKS- 367	2	1/14/80	0.037	0.024	0.013	0.38	0
OLKS- 370	2	1/28/80	0.009		0.011	0.06	0
OLKS- 373	2	2/12/80	0.008		0.010	0.03	0
OLKS- 376	2	3/ 3/80	< 0.004	< 0.004	0.006	0.01	0
OLKS- 379	2	3/17/80	0.007		0.010	0.06	0
OLKS- 382	2	3/31/80	0.008		0.011	0.14	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
LKS- 226	2	4/ 2/79	6.23	4.98	6.25	0.052	0.214
LKS- 235	2	4/ 9/79	10.05	5.76	10.06	0.294	0.510
LKS- 238	2	4/16/79	22.51	15.90	22.53	0.694	1.522
LKS- 241	2	4/23/79	40.95	22.96	40.96	5.041	6.316
LKS- 244	2	4/30/79	25.41	11.81	25.43	10.040	5.511
LKS- 247	2	5/ 7/79	28.77	17.09	28.80	4.272	4.774
LKS- 250	2	5/14/79	2.19	2.15	2.20	< 0.040	0.062
LKS- 253	2	5/21/79	1.97	1.94	1.98	< 0.010	0.023
LKS- 301	2	5/29/79	2.57	2.53	2.58	< 0.010	0.057
LKS- 304	2	6/ 4/79	2.21	2.17	2.22	< 0.010	0.027
LKS- 307	2	6/11/79	2.51	2.45	2.52	< 0.010	0.040
LKS- 310	2	6/18/79	10.43	10.34	10.44	< 0.010	0.045
LKS- 313	2	6/25/79	3.40	3.29	3.42	0.011	0.094
LKS- 316	2	7/ 2/79	6.01	5.51	6.03	0.019	0.283
LKS- 318	2	7/ 9/79	5.59	4.58	5.61	0.017	0.204
LKS- 321	2	7/16/79	5.24	4.00	5.26	0.042	0.194
LKS- 324	2	7/23/79	7.86	6.34	7.88	0.027	0.383
LKS- 327	2	7/30/79	19.02	13.84	19.04	0.124	0.774
LKS- 331	2	8/13/79	0.32 <	0.10	0.78	0.078	0.172
LKS- 334	2	8/20/79	2.36	2.34	2.37	0.011	0.110
LKS- 337	2	8/27/79	2.27	2.22	2.32	< 0.010	0.048
LKS- 340	2	9/ 5/79	1.49	1.47	1.49	< 0.010	< 0.010
LKS- 352	2	11/ 7/79	2.27	2.22	2.28		0.032
LKS- 354	2	11/19/79	2.85	2.71	2.87	< 0.010	0.038
LKS- 357	2	12/ 3/79	4.28	3.72	4.30	0.020	0.109
LKS- 361	2	12/17/79	2.74	2.50	2.75	0.030	0.074
LKS- 364	2	12/31/79	3.89	3.67	3.90	< 0.040	0.229
LKS- 367	2	1/14/80	4.36	3.98	4.40	0.049	0.224
LKS- 370	2	1/28/80	2.45	2.39	2.46	0.014	0.054
LKS- 373	2	2/12/80	2.51	2.48	2.52	< 0.010	0.047
LKS- 376	2	3/ 3/80	7.47	7.46	7.47	< 0.010	0.612
LKS- 379	2	3/17/80	7.75	7.69	7.76	< 0.010	0.474
LKS- 382	2	3/31/80	4.28	4.14	4.29	< 0.040	0.188

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			33	33	33	33
AVERAGE			110.	5.62	2.8	449.
ST. DEV.			51.	0.52	2.4	179.
MIN. VAL.			43.	4.87	0.6	133.
MAX. VAL.			281.	7.05	8.0	995.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
NUM. VALS.			33	13	33	33	3
AVERAGE			0.028	0.043	0.015	2.05	2
ST. DEV.			0.077	0.121	0.007	4.34	4
MIN. VAL.			0.004	0.004	0.006	0.01	0
MAX. VAL.			0.455	0.442	0.033	17.99	18

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
NUM. VALS.			33	33	33	32	3
AVERAGE			7.70	5.66	7.73	0.658	0.
ST. DEV.			9.25	5.22	9.24	2.057	1.
MIN. VAL.			0.32	0.10	0.78	0.010	0.
MAX. VAL.			40.95	22.96	40.96	10.040	6.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
.KS- 225	3	4/ 2/79	70.	4.83	2.7	218.
.KS- 228	3	4/ 2/79	70.	4.81	2.1	208.
.KS- 229	3	4/ 2/79	69.	4.79	1.9	206.
.KS- 230	3	4/ 2/79	70.	4.77	2.2	209.
.KS- 231	3	4/ 3/79	70.	4.77	1.8	209.
.KS- 232	3	4/ 3/79	70.	4.78	1.8	214.
.KS- 233	3	4/ 3/79	71.	4.69	2.2	217.
.KS- 234	3	4/ 9/79	79.	5.41	1.5	244.
.KS- 237	3	4/16/79	91.	6.02	4.6	279.
.KS- 240	3	4/23/79	102.	6.15	4.8	199.
.KS- 243	3	4/30/79	98.	5.86	3.1	174.
.KS- 246	3	5/ 7/79	88.	6.30	4.7	173.
.KS- 249	3	5/14/79	56.	5.09	1.9	177.
.KS- 252	3	5/21/79	53.	5.01	0.9	154.
.KS- 300	3	5/29/79	49.	5.20	0.9	149.
.KS- 303	3	6/ 4/79	50.	4.93	1.0	162.
.KS- 306	3	6/11/79	53.	4.98	1.2	185.
.KS- 309	3	6/18/79	55.	4.98	1.2	186.
.KS- 312	3	6/25/79	52.	6.02	2.0	168.
.KS- 315	3	7/ 2/79	88.	6.70	2.2	238.
.KS- 320	3	7/16/79	52.	5.25	1.7	125.
.KS- 323	3	7/23/79	49.	5.36	1.2	155.
.KS- 326	3	7/30/79	61.	6.53	1.6	158.
.KS- 330	3	8/13/79	46.	4.95	1.1	106.
.KS- 333	3	8/20/79	46.	4.98	0.7	134.
.KS- 336	3	8/27/79	44.	5.05	0.8	125.
.KS- 339	3	9/ 5/79	31.	5.12	0.8	200.
.KS- 342	3	9/10/79	32.	5.46	0.7	136.
.KS- 344	3	9/24/79	30.	5.45	0.5	143.
.KS- 346	3	10/ 8/79	32.	5.19	1.2	140.
.KS- 348	3	10/22/79	35.	5.11	0.6	170.
.KS- 350	3	11/ 5/79	39.	5.11	0.7	200.
.KS- 353	3	11/19/79	47.	5.32	0.7	205.
.KS- 356	3	12/ 3/79	50.	5.23	1.0	238.
.KS- 360	3	12/17/79	55.	5.34	0.8	244.
.KS- 363	3	12/31/79	61.	5.10	0.9	217.
.KS- 366	3	1/14/80	78.	5.30	1.2	166.
.KS- 369	3	1/28/80	60.	5.50	1.5	138.
.KS- 372	3	2/12/80	70.	5.14	1.0	151.
.KS- 375	3	3/ 3/80	63.	4.97	1.0	139.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OLKS- 225	3	4/ 2/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 228	3	4/ 2/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 229	3	4/ 2/79	< 0.008	< 0.004	< 0.008	0.01	0
OLKS- 230	3	4/ 2/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 231	3	4/ 3/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 232	3	4/ 3/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 233	3	4/ 3/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 234	3	4/ 9/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 237	3	4/16/79	< 0.008	< 0.004	0.008	0.02	0
OLKS- 240	3	4/23/79	0.031	0.023	< 0.008	0.05	0
OLKS- 243	3	4/30/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 246	3	5/ 7/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 249	3	5/14/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 252	3	5/21/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 300	3	5/29/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OLKS- 303	3	6/ 4/79	< 0.008	< 0.004	< 0.008	0.02	0
OLKS- 306	3	6/11/79	< 0.008	< 0.004	< 0.008	0.03	0
OLKS- 309	3	6/18/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OLKS- 312	3	6/25/79	< 0.008	< 0.004	< 0.008	0.03	0
OLKS- 315	3	7/ 2/79	< 0.008	< 0.004	< 0.008	0.01	0
OLKS- 320	3	7/16/79	< 0.004	< 0.004	0.004	0.02	0
OLKS- 323	3	7/23/79	0.005	< 0.004	0.005	< 0.04	0
OLKS- 326	3	7/30/79	< 0.004	< 0.004	0.007	0.01	0
OLKS- 330	3	8/13/79	< 0.004	< 0.004	< 0.004	0.01	0
OLKS- 333	3	8/20/79	0.004		0.005	0.01	0
OLKS- 336	3	8/27/79	0.009		0.012	< 0.01	0
OLKS- 339	3	9/ 5/79	< 0.004	< 0.004	0.005	0.02	0
OLKS- 342	3	9/10/79	< 0.004	< 0.004	0.005	0.03	0
OLKS- 344	3	9/24/79	< 0.004	< 0.004	0.006	< 0.01	< 0
OLKS- 346	3	10/ 8/79	< 0.004	< 0.004	0.004	0.01	0
OLKS- 348	3	10/22/79	< 0.004	< 0.004	0.005	< 0.01	< 0
OLKS- 350	3	11/ 5/79	< 0.004	< 0.004	0.006	0.02	0
OLKS- 353	3	11/19/79	0.005		0.006	0.01	0
OLKS- 356	3	12/ 3/79	0.004		0.007	0.04	0
OLKS- 360	3	12/17/79	0.008	< 0.004	0.008	0.03	0
OLKS- 363	3	12/31/79	0.005		0.007	0.01	0
OLKS- 366	3	1/14/80	0.005		0.006	0.02	0
OLKS- 369	3	1/28/80	0.007	< 0.004	0.005	0.02	0
OLKS- 372	3	2/12/80	0.005	< 0.004	0.005	0.01	0
OLKS- 375	3	3/ 3/80	< 0.004	< 0.004	< 0.004	0.01	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L		TPO4 MG P/L
OLKS- 225	3	4/ 2/79	2.00	1.99	2.01	<	0.010	<	0.040
OLKS- 228	3	4/ 2/79	1.62	1.60	1.63	<	0.010	<	0.040
OLKS- 229	3	4/ 2/79	1.81	1.80	1.82	<	0.010	<	0.040
OLKS- 230	3	4/ 2/79	1.71	1.70	1.72	<	0.010	<	0.040
OLKS- 231	3	4/ 3/79	1.81	1.80	1.82	<	0.010	<	0.040
OLKS- 232	3	4/ 3/79	1.79	1.78	1.80	<	0.010	<	0.040
OLKS- 233	3	4/ 3/79	1.87	1.85	1.88	<	0.010	<	0.040
OLKS- 234	3	4/ 9/79	2.44	2.40	2.45	<	0.040	<	0.040
OLKS- 237	3	4/16/79	3.02	3.00	3.03	<	0.010		0.082
OLKS- 240	3	4/23/79	2.69	2.64	2.72	<	0.040		0.100
OLKS- 243	3	4/30/79	2.11	2.07	2.12	<	0.010		0.071
OLKS- 246	3	5/ 7/79	2.61	2.57	2.62	<	0.040		0.082
OLKS- 249	3	5/14/79	1.73	1.69	1.74	<	0.040	<	0.040
OLKS- 252	3	5/21/79	1.15	1.13	1.16	<	0.010		0.015
OLKS- 300	3	5/29/79	1.21	1.17	1.22		0.013		0.047
OLKS- 303	3	6/ 4/79	1.14	1.12	1.15	<	0.010		0.015
OLKS- 306	3	6/11/79	1.36	1.33	1.37		0.016		0.020
OLKS- 309	3	6/18/79	1.61	1.60	1.62		0.013		0.052
OLKS- 312	3	6/25/79	1.40	1.37	1.41	<	0.010	<	0.040
OLKS- 315	3	7/ 2/79	2.59	2.58	2.60	<	0.010		0.075
OLKS- 320	3	7/16/79	1.37	1.35	1.37		0.023		0.090
OLKS- 323	3	7/23/79	1.27	1.23	1.28		0.010		0.050
OLKS- 326	3	7/30/79	1.91	1.90	1.91	<	0.010		0.048
OLKS- 330	3	8/13/79	0.94	0.93	0.94		0.018		0.036
OLKS- 333	3	8/20/79	0.99	0.98	0.99	<	0.010		0.020
OLKS- 336	3	8/27/79	1.07	1.06	1.08	<	0.010		0.032
OLKS- 339	3	9/ 5/79	0.96	0.94	0.96	<	0.010	<	0.010
OLKS- 342	3	9/10/79	1.18	1.15	1.18	<	0.010		0.014
OLKS- 344	3	9/24/79	1.27	1.26	1.27	<	0.010		0.029
OLKS- 346	3	10/ 8/79	0.68	0.67	0.68	<	0.010		0.016
OLKS- 348	3	10/22/79	1.09	1.08	1.09	<	0.040		0.013
OLKS- 350	3	11/ 5/79	1.62	1.60	1.62	<	0.010		0.019
OLKS- 353	3	11/19/79	1.44	1.43	1.45		0.012		0.042
OLKS- 356	3	12/ 3/79	1.84	1.80	1.84	<	0.010		0.037
OLKS- 360	3	12/17/79	1.43	1.40	1.44		0.039		0.096
OLKS- 363	3	12/31/79	1.46	1.45	1.47		0.013		0.042
OLKS- 366	3	1/14/80	1.47	1.45	1.48	<	0.010		0.049
OLKS- 369	3	1/28/80	1.03	1.01	1.04	<	0.010		0.037
OLKS- 372	3	2/12/80	1.26	1.25	1.27	<	0.010		0.026
OLKS- 375	3	3/ 3/80	1.93	1.92	1.93	<	0.010		0.014

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OLKS- 378	3	3/17/80	70.	5.03	1.0	219.
OLKS- 381	3	3/31/80	91.	6.83	1.5	229.

PROJECT OLKS DATE OF PRI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX MG
OLKS- 378	3	3/17/80	< 0.004	< 0.004	0.005	0.02	
OLKS- 381	3	3/31/80	0.005	< 0.004	0.006	0.04	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OLKS DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO MG
OLKS- 378	3	3/17/80	1.63	1.81	1.83		0.010	0.
OLKS- 381	3	3/31/80	2.05	2.01	2.06	<	0.010	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OLKS DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			42	42	42	42
AVERAGE			61.	5.32	1.6	184.
ST. DEV.			19.	0.54	1.1	40.
MIN. VAL.			30.	4.69	0.5	106.
MAX. VAL.			102.	6.83	4.8	279.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
NUM. VALS.			42	36	42	42	42
AVERAGE			0.007	0.005	0.007	0.02	0.
ST. DEV.			0.004	0.003	0.002	0.01	0.
MIN. VAL.			0.004	0.004	0.004	0.01	0.
MAX. VAL.			0.031	0.023	0.012	0.05	0.

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P
NUM. VALS.			42	42	42	42	42
AVERAGE			1.61	1.59	1.62	0.015	0.0
ST. DEV.			0.53	0.52	0.53	0.010	0.0
MIN. VAL.			0.68	0.67	0.68	0.010	0.0
MAX. VAL.			3.02	3.00	3.03	0.040	0.1

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPL TYPI
OLKS- 227	4/ 2/79	1308.	1			2=SLIGHT OVERCAST	
OLKS- 236	4/ 9/79	1340.	1			1=CLEAR	
OLKS- 239	4/16/79	1401.	1			1=CLEAR	
OLKS- 242	4/23/79	1244.	1			4=VERY OVERCAST	
OLKS- 245	4/30/79	1306.	1			4=VERY OVERCAST	
OLKS- 248	5/ 7/79	1338.	1			4=VERY OVERCAST	
OLKS- 254	5/21/79	1126.	1			1=CLEAR	
OLKS- 302	5/29/79	1422.	1			2=SLIGHT OVERCAST	
OLKS- 251	5/41/79	1302.	1			2=SLIGHT OVERCAST	
OLKS- 305	6/ 4/79	1127.	1			2=SLIGHT OVERCAST	
OLKS- 308	6/11/79	1059.	1			3=MEDIUM OVERCAST	
OLKS- 311	6/18/79	1101.	1			1=CLEAR	
OLKS- 314	6/25/79	1141.	1			1=CLEAR	
OLKS- 317	7/ 2/79	1106.	1			3=MEDIUM OVERCAST	
OLKS- 319	7/ 9/79	1114.	1			1=CLEAR	
OLKS- 322	7/16/79	1136.	1			3=MEDIUM OVERCAST	
OLKS- 325	7/23/79	1330.	1			4=VERY OVERCAST	
OLKS- 328	7/30/79	1156.	1				
OLKS- 329	8/ 6/79	1225.	1			2=SLIGHT OVERCAST	
OLKS- 332	8/13/79	1116.	1			1=CLEAR	
OLKS- 335	8/20/79	1152.	1			3=MEDIUM OVERCAST	
OLKS- 338	8/27/79	1157.	1			5=DRIZZLE	
OLKS- 341	9/ 5/79	1153.	1			2=SLIGHT OVERCAST	
OLKS- 343	9/10/79	1410.	1			3=MEDIUM OVERCAST	
OLKS- 345	9/24/79	1221.	1			3=MEDIUM OVERCAST	
OLKS- 347	10/ 8/79	1100.	1			1=CLEAR	
OLKS- 349	10/22/79	1117.	1			3=MEDIUM OVERCAST	
OLKS- 351	11/ 5/79	1130.	1			2=SLIGHT OVERCAST	
OLKS- 355	11/19/79	1154.	1			2=SLIGHT OVERCAST	
OLKS- 358	12/ 3/79	1230.	1			3=MEDIUM OVERCAST	
OLKS- 362	12/17/79	1208.	1			4=VERY OVERCAST	
OLKS- 365	12/31/79	1156.	1			2=SLIGHT OVERCAST	
OLKS- 368	1/14/80	1104.	1			4=VERY OVERCAST	
OLKS- 371	1/28/80	1135.	1			4=VERY OVERCAST	
OLKS- 374	2/12/80	1042.	1			3=MEDIUM OVERCAST	
OLKS- 377	3/ 3/80	1129.	1			1=CLEAR	
OLKS- 380	3/17/80	1140.	1			3=MEDIUM OVERCAST	
OLKS- 383	3/31/80	1230.	1			6=RAIN	
OLKS- 226	4/ 2/79	1206.	2			1=CLEAR	
OLKS- 235	4/ 9/79	1234.	2			2=SLIGHT OVERCAST	

COMMENTS FOR SELECTED SAMPLES OF PROJECT OLKS DATE OF PRI

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMP TYP
OLKS- 238	4/16/79	1246.	2			1=CLEAR	
OLKS- 241	4/23/79	1140.	2			4=VERY OVERCAST	
OLKS- 244	4/30/79	1151.	2			4=VERY OVERCAST	
OLKS- 247	5/ 7/79	1214.	2			4=VERY OVERCAST	
OLKS- 250	5/14/79	1158.	2			2=SLIGHT OVERCAST	
OLKS- 253	5/21/79	1039.	2			1=CLEAR	
OLKS- 301	5/29/79	1333.	2			2=SLIGHT OVERCAST	
OLKS- 304	6/ 4/79	1046.	2			2=SLIGHT OVERCAST	
OLKS- 307	6/11/79	1019.	2			2=SLIGHT OVERCAST	
OLKS- 310	6/18/79	1021.	2			1=CLEAR	
OLKS- 313	6/25/79	1051.	2			1=CLEAR	
OLKS- 316	7/ 2/79	1024.	2			3=MEDIUM OVERCAST	
OLKS- 318	7/ 9/79	1035.	2			1=CLEAR	
OLKS- 321	7/16/79	1045.	2			3=MEDIUM OVERCAST	
OLKS- 324	7/23/79	1244.	2			3=MEDIUM OVERCAST	
OLKS- 327	7/30/79	1052.	2			1=CLEAR	
OLKS- 331	8/13/79	1025.	2			1=CLEAR	
OLKS- 334	8/20/79	1057.	2			2=SLIGHT OVERCAST	
OLKS- 337	8/27/79	1102.	2			3=MEDIUM OVERCAST	
OLKS- 340	9/ 5/79	1040.	2			2=SLIGHT OVERCAST	
OLKS- 352	11/ 7/79	1430.	2			2=SLIGHT OVERCAST	
OLKS- 354	11/19/79	1052.	2			1=CLEAR	
OLKS- 357	12/ 3/79	1120.	2			3=MEDIUM OVERCAST	
OLKS- 361	12/17/79	1111.	2			4=VERY OVERCAST	
OLKS- 364	12/31/79	1057.	2			2=SLIGHT OVERCAST	
OLKS- 367	1/14/80	1020.	2			4=VERY OVERCAST	
OLKS- 370	1/28/80	1030.	2			4=VERY OVERCAST	
OLKS- 373	2/12/80	1004.	2			3=MEDIUM OVERCAST	
OLKS- 376	3/ 3/80	1045.	2			1=CLEAR	
OLKS- 379	3/17/80	1100.	2			3=MEDIUM OVERCAST	
OLKS- 382	3/31/80	1142.	2			6=RAIN	
OLKS- 225	4/ 2/79	1125.	3			1=CLEAR	
OLKS- 228	4/ 2/79	1320.	3			1=CLEAR	20=A
OLKS- 229	4/ 2/79	1520.	3			1=CLEAR	20=A
OLKS- 230	4/ 2/79	1920.	3			1=CLEAR	20=A
OLKS- 231	4/ 3/79	120.	3			1=CLEAR	20=A
OLKS- 232	4/ 3/79	720.	3			1=CLEAR	20=A
OLKS- 233	4/ 3/79	1120.	3			1=CLEAR	20=A
OLKS- 234	4/ 9/79	1155.	3			3=MEDIUM OVERCAST	
OLKS- 237	4/16/79	1133.	3			1=CLEAR	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
LKS- 240	4/23/79	1100.	3			4=VERY OVERCAST	
LKS- 243	4/30/79	1108.	3			5=DRIZZLE	
LKS- 246	5/ 7/79	1134.	3			5=DRIZZLE	
LKS- 249	5/14/79	956.	3			2=SLIGHT OVERCAST	
LKS- 252	5/21/79	950.	3			1=CLEAR	
LKS- 300	5/29/79	1211.	3			3=MEDIUM OVERCAST	
LKS- 303	6/ 4/79	1009.	3			2=SLIGHT OVERCAST	
LKS- 306	6/11/79	944.	3			2=SLIGHT OVERCAST	
LKS- 309	6/18/79	947.	3			1=CLEAR	
LKS- 312	6/25/79	1007.	3			1=CLEAR	
LKS- 315	7/ 2/79	947.	3			2=SLIGHT OVERCAST	
LKS- 320	7/16/79	958.	3			2=SLIGHT OVERCAST	
LKS- 323	7/23/79	1129.	3			3=MEDIUM OVERCAST	
LKS- 326	7/30/79	1013.	3			1=CLEAR	
LKS- 330	8/13/79	954.	3			1=CLEAR	
LKS- 333	8/20/79	1008.	3			2=SLIGHT OVERCAST	
LKS- 336	8/27/79	1004.	3			3=MEDIUM OVERCAST	
LKS- 339	9/ 5/79	956.	3			2=SLIGHT OVERCAST	
LKS- 342	9/10/79	1215.	3			3=MEDIUM OVERCAST	
LKS- 344	9/24/79	1017.	3			3=MEDIUM OVERCAST	
LKS- 346	10/ 8/79	935.	3			1=CLEAR	
LKS- 348	10/22/79	1000.	3			1=CLEAR	
LKS- 350	11/ 5/79	1000.	3			1=CLEAR	
LKS- 353	11/19/79	1000.	3			1=CLEAR	
LKS- 356	12/ 3/79	1030.	3			2=SLIGHT OVERCAST	
LKS- 360	12/17/79	1029.	3			4=VERY OVERCAST	
LKS- 363	12/31/79	1000.	3			2=SLIGHT OVERCAST	
LKS- 366	1/14/80	937.	3			4=VERY OVERCAST	
LKS- 369	1/28/80	925.	3			4=VERY OVERCAST	
LKS- 372	2/12/80	923.	3			3=MEDIUM OVERCAST	
LKS- 375	3/ 3/80	950.	3			1=CLEAR	
LKS- 378	3/17/80	1025.	3			3=MEDIUM OVERCAST	
LKS- 381	3/31/80	1030.	3			4=VERY OVERCAST	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OPVN- 39	1	4/ 4/79	272.	7.52	21.0	125.
OPVN- 40	1	4/11/79	303.	7.38	9.8	136.
OPVN- 41	1	4/25/79	389.	7.30	28.0	118.
OPVN- 42	1	5/ 2/79	362.	7.38	6.0	146.
OPVN- 43	1	5/ 9/79	354.	7.40	6.5	124.
OPVN- 44	1	5/17/79	68.	5.87	1.0	307.
OPVN- 46	1	5/23/79	77.	6.16	1.1	308.
OPVN- 300	1	5/30/79	96.	6.46	1.5	346.
OPVN- 301	1	6/ 6/79	107.	6.45	4.1	321.
OPVN- 302	1	6/13/79	102.	6.38	17.0	235.
OPVN- 303	1	6/20/79	128.	6.44	9.7	181.
OPVN- 304	1	6/27/79	114.	6.43	2.9	108.
OPVN- 307	1	7/ 4/79	69.	5.45	0.8	236.
OPVN- 309	1	7/11/79	84.	5.67	0.7	478.
OPVN- 312	1	7/18/79	67.	5.64	1.1	458.
OPVN- 315	1	7/24/79	71.	5.74	1.2	317.
OPVN- 318	1	8/ 1/79	75.	5.42	0.5	396.
OPVN- 321	1	8/ 7/79	60.	5.69	0.7	325.
OPVN- 324	1	8/15/79	55.	5.21	0.5	341.
OPVN- 327	1	8/21/79	60.	5.62	0.7	337.
OPVN- 330	1	8/28/79	60.	5.38	0.6	256.
OPVN- 333	1	9/ 3/79	30.	5.55	1.5	139.
OPVN- 334	1	9/12/79	39.	5.49	0.5	263.
OPVN- 335	1	9/19/79	34.	5.84	0.4	237.
OPVN- 337	1	9/25/79	40.	5.74	0.6	268.
OPVN- 339	1	10/10/79	45.	5.41	2.5	232.
OPVN- 342	1	10/24/79	54.	5.83	0.7	227.
OPVN- 345	1	11/ 6/79	53.	5.62	0.5	191.
OPVN- 348	1	11/20/79	62.	6.03	1.1	180.
OPVN- 349	1	12/ 4/79	81.	5.92	1.4	167.
OPVN- 350	1	12/18/79	95.	5.90	0.9	186.
OPVN- 352	1	1/ 2/80	111.	5.78	1.3	164.
OPVN- 353	1	1/15/80	123.	5.73	2.6	175.
OPVN- 356	1	1/29/80	128.	5.87	0.5	196.
OPVN- 359	1	2/13/80	132.	5.66	1.0	156.
OPVN- 361	1	3/ 4/80	94.	6.09	0.5	137.
OPVN- 364	1	3/18/80	98.	6.04	0.8	220.
OPVN- 367	1	4/ 1/80	115.	6.24	1.5	209.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
OPVN- 39	1	4/ 4/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.
OPVN- 40	1	4/11/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.
OPVN- 41	1	4/25/79	0.142	0.116	0.026	0.90	1.
OPVN- 42	1	5/ 2/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.
OPVN- 43	1	5/ 9/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.
OPVN- 44	1	5/17/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.
OPVN- 46	1	5/23/79	< 0.008	< 0.004	< 0.008	0.03	0.
OPVN- 300	1	5/30/79	< 0.008	< 0.004	0.012	0.04	0.
OPVN- 301	1	6/ 6/79	< 0.008	< 0.004	0.009	0.02	0.
OPVN- 302	1	6/13/79	< 0.008	< 0.004	< 0.008	0.03	0.
OPVN- 303	1	6/20/79	< 0.008	< 0.004	< 0.008	0.02	0.
OPVN- 304	1	6/27/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0.
OPVN- 307	1	7/ 4/79	< 0.008	< 0.004	< 0.008	0.03	0.
OPVN- 309	1	7/11/79	0.012		0.015	0.03	0.
OPVN- 312	1	7/18/79	0.008		0.012	0.01	0.
OPVN- 315	1	7/24/79	0.010	< 0.004	0.009	< 0.01	0.
OPVN- 318	1	8/ 1/79	0.007		0.013	0.02	0.
OPVN- 321	1	8/ 7/79	0.009		0.011	0.02	0.
OPVN- 324	1	8/15/79	0.006		0.011	0.01	0.
OPVN- 327	1	8/21/79	0.009		0.011	0.01	0.
OPVN- 330	1	8/28/79	0.006		0.009	0.01	0.
OPVN- 333	1	9/ 3/79	< 0.004	< 0.004	< 0.004	0.01	0.
OPVN- 334	1	9/12/79	0.005		0.008	0.03	0.
OPVN- 335	1	9/19/79	< 0.004	< 0.004	0.008	< 0.01	< 0.
OPVN- 337	1	9/25/79	< 0.004	< 0.004	0.010	< 0.01	< 0.
OPVN- 339	1	10/10/79	0.006		0.007	< 0.01	0.
OPVN- 342	1	10/24/79	< 0.004	< 0.004	0.007	0.02	0.
OPVN- 345	1	11/ 6/79	0.004		0.006	0.01	0.
OPVN- 348	1	11/20/79	0.005	< 0.004	0.005	0.02	0.
OPVN- 349	1	12/ 4/79	< 0.004	< 0.004	0.004	0.02	0.
OPVN- 350	1	12/18/79	0.004		0.005	0.02	0.
OPVN- 352	1	1/ 2/80	0.006	< 0.004	0.005	0.04	0.
OPVN- 353	1	1/15/80	0.005	< 0.004	0.005	0.06	0.
OPVN- 356	1	1/29/80	0.009	< 0.004	0.007	< 0.04	0.
OPVN- 359	1	2/13/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 361	1	3/ 4/80	< 0.004	< 0.004	< 0.004	0.01	0.
OPVN- 364	1	3/18/80	< 0.004	< 0.004	0.006	0.01	0.
OPVN- 367	1	4/ 1/80	0.005		0.006	0.04	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L		TPO MG
OPVN- 39	1	4/ 4/79	3.36	3.35	3.37	<	0.010		0.
OPVN- 40	1	4/11/79	2.96	2.92	2.97	<	0.040		0.
OPVN- 41	1	4/25/79	4.10	3.20	4.24	<	0.040		0.
OPVN- 42	1	5/ 2/79	2.90	2.86	2.91	<	0.010		0.
OPVN- 43	1	5/ 9/79	2.81	2.77	2.82				0.
OPVN- 44	1	5/17/79	2.10	2.06	2.11	<	0.040		0.
OPVN- 46	1	5/23/79	1.86	1.83	1.87	<	0.010		0.
OPVN- 300	1	5/30/79	2.14	2.10	2.15	<	0.010		0.
OPVN- 301	1	6/ 6/79	2.44	2.42	2.45	<	0.010		0.
OPVN- 302	1	6/13/79	3.14	3.11	3.15		0.017		0.
OPVN- 303	1	6/20/79	3.42	3.40	3.43	<	0.010		0.
OPVN- 304	1	6/27/79	1.56	1.55	1.57	<	0.010		0.
OPVN- 307	1	7/ 4/79	1.80	1.77	1.81		0.016		0.
OPVN- 309	1	7/11/79	2.35	2.32	2.36		0.050		0.
OPVN- 312	1	7/18/79	2.23	2.22	2.24		0.025		0.
OPVN- 315	1	7/24/79	2.22	2.21	2.23	<	0.010	<	0.
OPVN- 318	1	8/ 1/79	2.09	2.07	2.10	<	0.010		0.
OPVN- 321	1	8/ 7/79	2.18	2.16	2.19	<	0.010		0.
OPVN- 324	1	8/15/79	1.94	1.93	1.95	<	0.010		0.
OPVN- 327	1	8/21/79	1.81	1.80	1.82	<	0.010		0.
OPVN- 330	1	8/28/79	1.92	1.91	1.93	<	0.010		0.
OPVN- 333	1	9/ 3/79	0.68	0.67	0.68	<	0.010		0.
OPVN- 334	1	9/12/79	1.27	1.24	1.28	<	0.010		0.
OPVN- 335	1	9/19/79	1.11	1.10	1.11	<	0.010		0.
OPVN- 337	1	9/25/79	1.27	1.26	1.27	<	0.010		0.
OPVN- 339	1	10/10/79	1.35	1.34	1.36	<	0.010		0.
OPVN- 342	1	10/24/79	1.96	1.94	1.96	<	0.010		0.
OPVN- 345	1	11/ 6/79	0.85	0.84	0.85	<	0.010		0.
OPVN- 348	1	11/20/79	1.41	1.39	1.42	<	0.010		0.
OPVN- 349	1	12/ 4/79	1.97	1.95	1.97	<	0.010		0.
OPVN- 350	1	12/18/79	1.40	1.38	1.40	<	0.010		0.
OPVN- 352	1	1/ 2/80	1.57	1.53	1.58		0.010		0.
OPVN- 353	1	1/15/80	3.33	3.27	3.34	<	0.010		0.
OPVN- 356	1	1/29/80	1.54	1.50	1.55	<	0.040		0.
OPVN- 359	1	2/13/80	1.96	1.95	1.96	<	0.010		0.
OPVN- 361	1	3/ 4/80	1.50	1.49	1.50	<	0.010		0.
OPVN- 364	1	3/18/80	1.96	1.95	1.96	<	0.010		0.
OPVN- 367	1	4/ 1/80	2.62	2.58	2.63	<	0.010		0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			38	38	38	38
AVERAGE			113.	6.05	3.5	235.
ST. DEV.			93.	0.62	6.1	94.
MIN. VAL.			30.	5.21	0.4	108.
MAX. VAL.			389.	7.52	28.0	478.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
NUM. VALS.			38	26	38	38	3
AVERAGE			0.010	0.008	0.008	0.05	0.
ST. DEV.			0.022	0.022	0.004	0.14	0.
MIN. VAL.			0.004	0.004	0.004	0.01	0.
MAX. VAL.			0.142	0.116	0.026	0.90	1.

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P
NUM. VALS.			38	38	38	37	38
AVERAGE			2.08	2.04	2.09	0.015	0.0
ST. DEV.			0.76	0.70	0.77	0.011	0.0
MIN. VAL.			0.68	0.67	0.68	0.010	0.0
MAX. VAL.			4.10	3.40	4.24	0.050	0.2

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OPVN- 306	2	6/27/79	62.	5.56	4.0	135.
OPVN- 311	2	7/11/79	72.	5.20	0.8	259.
OPVN- 314	2	7/18/79	57.	5.29	0.7	152.
OPVN- 317	2	7/24/79	72.	5.26	1.8	139.
OPVN- 320	2	8/ 1/79	76.	5.14	3.9	154.
OPVN- 323	2	8/ 7/79	53.	5.28	2.3	113.
OPVN- 326	2	8/15/79	50.	5.22	1.1	152.
OPVN- 329	2	8/21/79	60.	5.43	1.3	146.
OPVN- 332	2	8/28/79	54.	5.38	1.6	109.
OPVN- 341	2	10/10/79	35.	5.41	2.0	142.
OPVN- 344	2	10/24/79	49.	5.51	0.9	132.
OPVN- 347	2	11/ 6/79	46.	5.72	1.3	100.
OPVN- 355	2	1/15/80	121.	5.27	3.2	183.
OPVN- 358	2	1/29/80	114.	5.80	15.0	252.
OPVN- 363	2	3/ 4/80	62.	5.32	0.6	98.
OPVN- 366	2	3/18/80	68.	5.95	2.2	113.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
OPVN- 306	2	6/27/79	< 0.008	< 0.004	< 0.008	0.02	0.
OPVN- 311	2	7/11/79	0.007		0.010	0.02	0.
OPVN- 314	2	7/18/79	0.005	< 0.004	0.004	< 0.01	0.
OPVN- 317	2	7/24/79	< 0.004	< 0.004	0.005	< 0.01	< 0.
OPVN- 320	2	8/ 1/79	< 0.004	< 0.004	0.006	0.02	0.
OPVN- 323	2	8/ 7/79	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 326	2	8/15/79	< 0.004	< 0.004	0.004	0.01	0.
OPVN- 329	2	8/21/79	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 332	2	8/28/79	< 0.004	< 0.004	< 0.004	0.02	0.
OPVN- 341	2	10/10/79	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 344	2	10/24/79	< 0.004	< 0.004	0.006	0.03	0.
OPVN- 347	2	11/ 6/79	< 0.004	< 0.004	< 0.004	0.04	0.
OPVN- 355	2	1/15/80	0.029	0.022	0.007	0.14	0.
OPVN- 358	2	1/29/80	0.018	0.007	0.011	0.52	0.
OPVN- 363	2	3/ 4/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 366	2	3/18/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO MG
OPVN- 306	2	6/27/79	3.21	3.19	3.22	<	0.010	0.
OPVN- 311	2	7/11/79	2.47	2.45	2.48	<	0.010	0.
OPVN- 314	2	7/18/79	1.82	1.81	1.83	<	0.010	0.
OPVN- 317	2	7/24/79	2.46	2.45	2.46	<	0.010	0.
OPVN- 320	2	8/ 1/79	5.75	5.73	5.75	<	0.010	0.
OPVN- 323	2	8/ 7/79	2.80	2.79	2.80	<	0.010	0.
OPVN- 326	2	8/15/79	1.94	1.93	1.94	<	0.010	0.
OPVN- 329	2	8/21/79	3.83	3.82	3.83	<	0.010	0.
OPVN- 332	2	8/28/79	2.68	2.66	2.68	<	0.010	0.
OPVN- 341	2	10/10/79	1.53	1.52	1.53	<	0.010	0.
OPVN- 344	2	10/24/79	2.84	2.81	2.84	<	0.010	0.
OPVN- 347	2	11/ 6/79	1.18	1.14	1.18	<	0.010	0.
OPVN- 355	2	1/15/80	4.85	4.71	4.88	<	0.010	0.
OPVN- 358	2	1/29/80	8.73	8.21	8.75	<	0.010	0.
OPVN- 363	2	3/ 4/80	2.15	2.14	2.15	<	0.010	0.
OPVN- 366	2	3/18/80	2.90	2.89	2.90	<	0.010	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINTI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
UM. VALS.			16	16	16	16
VERAGE			66.	5.42	2.7	149.
T. DEV.			23.	0.23	3.5	47.
IN. VAL.			35.	5.14	0.6	98.
AX. VAL.			121.	5.95	15.0	259.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH MG N/L
UM. VALS.			16	15	16	16	16
VERAGE			0.007	0.005	0.006	0.06	0.0
T. DEV.			0.007	0.005	0.002	0.13	0.1
IN. VAL.			0.004	0.004	0.004	0.01	0.0
AX. VAL.			0.029	0.022	0.011	0.52	0.5

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/
UM. VALS.			16	16	16	16	16
VERAGE			3.20	3.14	3.20	0.010	0.07
T. DEV.			1.89	1.78	1.89		0.07
IN. VAL.			1.18	1.14	1.18	0.010	0.01
AX. VAL.			8.73	8.21	8.75	0.010	0.31

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OPVN- 45	3	5/17/79	68.	5.45	1.5	300.
OPVN- 47	3	5/23/79	128.	6.08	1.4	254.
OPVN- 305	3	6/27/79	134.	5.04	1.7	117.
OPVN- 308	3	7/ 4/79	47.	5.32	1.3	219.
OPVN- 310	3	7/11/79	70.	5.07	0.9	173.
OPVN- 313	3	7/18/79	55.	5.26	0.6	248.
OPVN- 316	3	7/24/79	66.	5.24	1.8	200.
OPVN- 319	3	8/ 1/79	71.	5.07	2.6	167.
OPVN- 322	3	8/ 7/79	55.	5.16	0.6	146.
OPVN- 325	3	8/15/79	50.	5.35	0.9	126.
OPVN- 328	3	8/21/79	62.	5.12	3.1	193.
OPVN- 331	3	8/28/79	60.	5.08	2.9	157.
OPVN- 340	3	10/10/79	43.	5.40	1.0	172.
OPVN- 343	3	10/24/79	54.	5.87	2.4	163.
OPVN- 346	3	11/ 6/79	50.	5.68	4.6	139.
OPVN- 351	3	12/18/79	97.	5.73	1.1	342.
OPVN- 354	3	1/15/80	111.	5.30	1.4	90.
OPVN- 357	3	1/29/80	100.	5.58	1.0	93.
OPVN- 360	3	2/13/80	127.	5.69	0.9	61.
OPVN- 362	3	3/ 4/80	75.	6.17	0.9	105.
OPVN- 365	3	3/18/80	96.	5.97	1.6	121.
OPVN- 368	3	4/ 1/80	172.	6.07	2.4	107.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
OPVN- 45	3	5/17/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0.
OPVN- 47	3	5/23/79	< 0.008	< 0.004	< 0.008	0.04	0.
OPVN- 305	3	6/27/79	< 0.008	< 0.004	< 0.008	0.05	0.
OPVN- 308	3	7/ 4/79	< 0.008	< 0.004	< 0.008	0.01	0.
OPVN- 310	3	7/11/79	0.005		0.007	0.02	0.
OPVN- 313	3	7/18/79	0.006		0.007	< 0.01	0.
OPVN- 316	3	7/24/79	< 0.004	< 0.004	0.007	< 0.01	< 0.
OPVN- 319	3	8/ 1/79	< 0.004	< 0.004	0.007	0.01	0.
OPVN- 322	3	8/ 7/79	0.004		0.005	0.01	0.
OPVN- 325	3	8/15/79	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 328	3	8/21/79	0.005		0.007	< 0.01	0.
OPVN- 331	3	8/28/79	< 0.004	< 0.004	0.005	0.01	0.
OPVN- 340	3	10/10/79	0.005	< 0.004	0.005	< 0.01	0.
OPVN- 343	3	10/24/79	0.005		0.007	0.01	0.
OPVN- 346	3	11/ 6/79	< 0.004	< 0.004	0.005	0.01	0.
OPVN- 351	3	12/18/79	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 354	3	1/15/80	0.005	< 0.004	< 0.004	0.02	0.
OPVN- 357	3	1/29/80	0.004	< 0.004	< 0.004	0.01	0.
OPVN- 360	3	2/13/80	< 0.004	< 0.004	< 0.004	< 0.01	< 0.
OPVN- 362	3	3/ 4/80	< 0.004	< 0.004	< 0.004	0.01	0.
OPVN- 365	3	3/18/80	< 0.004	< 0.004	0.004	< 0.01	< 0.
OPVN- 368	3	4/ 1/80	0.023	0.019	0.004	0.02	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
OPVN- 45	3	5/17/79	3.03	2.99	3.04	< 0.040	0.
OPVN- 47	3	5/23/79	2.35	2.31	2.36	0.012	0.
OPVN- 305	3	6/27/79	1.59	1.54	1.60	< 0.010	0.
OPVN- 308	3	7/ 4/79	2.75	2.74	2.76	< 0.010	0.
OPVN- 310	3	7/11/79	1.77	1.75	1.78	< 0.010	0.
OPVN- 313	3	7/18/79	1.60	1.59	1.61	< 0.010	0.
OPVN- 316	3	7/24/79	2.89	2.88	2.89	< 0.010	0.
OPVN- 319	3	8/ 1/79	3.37	3.36	3.37	< 0.010	0.
OPVN- 322	3	8/ 7/79	1.31	1.30	1.31	< 0.010	0.
OPVN- 325	3	8/15/79	1.18	1.17	1.18	< 0.010	0.
OPVN- 328	3	8/21/79	10.15	10.14	10.15	< 0.010	0.
OPVN- 331	3	8/28/79	2.91	2.90	2.91	< 0.010	0.
OPVN- 340	3	10/10/79	2.15	2.14	2.16	< 0.010	0.
OPVN- 343	3	10/24/79	4.65	4.64	4.66	< 0.010	0.
OPVN- 346	3	11/ 6/79	2.52	2.51	2.52	< 0.010	0.
OPVN- 351	3	12/18/79	< 0.20	< 0.10	< 0.10	< 0.010	0.
OPVN- 354	3	1/15/80	1.38	1.36	1.39	< 0.010	0.
OPVN- 357	3	1/29/80	1.17	1.16	1.17	< 0.010	0.
OPVN- 360	3	2/13/80	1.49	1.48	1.49	< 0.010	0.
OPVN- 362	3	3/ 4/80	1.67	1.66	1.67	< 0.010	0.
OPVN- 365	3	3/18/80	2.26	2.25	2.26	< 0.010	0.
OPVN- 368	3	4/ 1/80	2.73	2.71	2.75	< 0.010	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			22	22	22	22
AVERAGE			81.	5.49	1.7	168.
ST. DEV.			35.	0.37	1.0	71.
MIN. VAL.			43.	5.04	0.6	61.
MAX. VAL.			172.	6.17	4.6	342.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N/
NUM. VALS.			22	17	22	22	22
AVERAGE			0.006	0.005	0.006	0.02	0.
ST. DEV.			0.004	0.004	0.002	0.01	0.
MIN. VAL.			0.004	0.004	0.004	0.01	0.
MAX. VAL.			0.023	0.019	0.008	0.05	0.

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P
NUM. VALS.			22	22	22	22	22
AVERAGE			2.51	2.49	2.51	0.011	0.0
ST. DEV.			1.95	1.96	1.96	0.006	0.0
MIN. VAL.			0.20	0.10	0.10	0.010	0.0
MAX. VAL.			10.15	10.14	10.15	0.040	0.1

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OPVN- 336	4	9/19/79	38.	5.83	0.9	335.
OPVN- 338	4	9/25/79	37.	5.74	0.7	518.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N
OPVN- 336	4	9/19/79	< 0.004	< 0.004	0.011	< 0.01	< 0
OPVN- 338	4	9/25/79	< 0.004	< 0.004	0.011	0.01	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OPVN DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO MG
OPVN- 336	4	9/19/79	2.06	2.05	2.06	<	0.010	0.
OPVN- 338	4	9/25/79	1.39	1.38	1.39	<	0.010	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OPVN DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
UM. VALS.			2	2	2	2
VERAGE			38.	5.79	0.8	427.
T. DEV.			1.	0.06	0.1	129.
IN. VAL.			37.	5.74	0.7	335.
AX. VAL.			38.	5.83	0.9	518.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
UM. VALS.			2	2	2	2	2
VERAGE			0.004	0.004	0.011	0.01	0.01
T. DEV.			0.000	0.000	0.000	0.00	0.00
IN. VAL.			0.004	0.004	0.011	0.01	0.01
AX. VAL.			0.004	0.004	0.011	0.01	0.01

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
UM. VALS.			2	2	2	2	2
VERAGE			1.73	1.72	1.73	0.010	0.056
T. DEV.			0.47	0.47	0.47	0.000	0.001
IN. VAL.			1.39	1.38	1.39	0.010	0.055
AX. VAL.			2.06	2.05	2.06	0.010	0.057

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
PVN- 39	4/ 4/79	1255.	1			3=MEDIUM OVERCAST	
PVN- 40	4/11/79	1316.	1			2=SLIGHT OVERCAST	
PVN- 41	4/25/79	939.	1			4=VERY OVERCAST	
PVN- 42	5/ 2/79	1336.	1			3=MEDIUM OVERCAST	
PVN- 43	5/ 9/79	948.	1			4=VERY OVERCAST	
PVN- 44	5/17/79	1121.	1			4=VERY OVERCAST	
PVN- 46	5/23/79	1216.	1			4=VERY OVERCAST	
PVN- 300	5/30/79	931.	1			2=SLIGHT OVERCAST	
PVN- 301	6/ 6/79	943.	1			1=CLEAR	
PVN- 302	6/13/79	925.	1			4=VERY OVERCAST	
PVN- 303	6/20/79	937.	1			1=CLEAR	
PVN- 304	6/27/79	1305.	1			4=VERY OVERCAST	
PVN- 307	7/ 4/79	939.	1			1=CLEAR	
PVN- 309	7/11/79	1008.	1			2=SLIGHT OVERCAST	
PVN- 312	7/18/79	928.	1			2=SLIGHT OVERCAST	
PVN- 315	7/24/79	939.	1			4=VERY OVERCAST	
PVN- 318	8/ 1/79	934.	1			1=CLEAR	
PVN- 321	8/ 7/79	950.	1			3=MEDIUM OVERCAST	
PVN- 324	8/15/79	948.	1			3=MEDIUM OVERCAST	
PVN- 327	8/21/79	930.	1			2=SLIGHT OVERCAST	
PVN- 330	8/28/79	950.	1			2=SLIGHT OVERCAST	
PVN- 333	9/ 3/79	1113.	1			4=VERY OVERCAST	
PVN- 334	9/12/79	1015.	1			3=MEDIUM OVERCAST	
PVN- 335	9/19/79	1010.	1			4=VERY OVERCAST	
PVN- 337	9/25/79	1000.	1			3=MEDIUM OVERCAST	
PVN- 339	10/10/79	938.	1			2=SLIGHT OVERCAST	
PVN- 342	10/24/79	943.	1			1=CLEAR	
PVN- 345	11/ 6/79	945.	1			1=CLEAR	
PVN- 348	11/20/79	950.	1			1=CLEAR	
PVN- 349	12/ 4/79	1025.	1			2=SLIGHT OVERCAST	
PVN- 350	12/18/79	922.	1			1=CLEAR	
PVN- 352	1/ 2/80	1010.	1			1=CLEAR	
PVN- 353	1/15/80	932.	1			4=VERY OVERCAST	
PVN- 356	1/29/80	1042.	1			1=CLEAR	
PVN- 359	2/13/80	937.	1			2=SLIGHT OVERCAST	
PVN- 361	3/ 4/80	1010.	1			1=CLEAR	
PVN- 364	3/18/80	935.	1			4=VERY OVERCAST	
PVN- 367	4/ 1/80	1050.	1			5=DRIZZLE	
PVN- 306	6/27/79	1328.	2			4=VERY OVERCAST	
PVN- 311	7/11/79	1038.	2			2=SLIGHT OVERCAST	

COMMENTS FOR SELECTED SAMPLES OF PROJECT OPVN DATE OF PRINT

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OPVN- 314	7/18/79	1004.	2			2=SLIGHT OVERCAST	
OPVN- 317	7/24/79	1009.	2			4=VERY OVERCAST	
OPVN- 320	8/ 1/79	1000.	2			1=CLEAR	
OPVN- 323	8/ 7/79	1017.	2			3=MEDIUM OVERCAST	
OPVN- 326	8/15/79	1020.	2			3=MEDIUM OVERCAST	
OPVN- 329	8/21/79	1003.	2			3=MEDIUM OVERCAST	
OPVN- 332	8/28/79	1024.	2			2=SLIGHT OVERCAST	
OPVN- 341	10/10/79	1015.	2			2=SLIGHT OVERCAST	
OPVN- 344	10/24/79	1010.	2			1=CLEAR	
OPVN- 347	11/ 6/79	1020.	2			2=SLIGHT OVERCAST	
OPVN- 355	1/15/80	1002.	2			4=VERY OVERCAST	
OPVN- 358	1/29/80	1112.	2			1=CLEAR	
OPVN- 363	3/ 4/80	1127.	2			1=CLEAR	
OPVN- 366	3/18/80	1007.	2				
OPVN- 45	5/17/79	1206.	3			4=VERY OVERCAST	
OPVN- 47	5/23/79	1300.	3			3=MEDIUM OVERCAST	
OPVN- 305	6/27/79	1319.	3			4=VERY OVERCAST	
OPVN- 308	7/ 4/79	956.	3			1=CLEAR	
OPVN- 310	7/11/79	1029.	3			2=SLIGHT OVERCAST	
OPVN- 313	7/18/79	951.	3			2=SLIGHT OVERCAST	
OPVN- 316	7/24/79	958.	3			4=VERY OVERCAST	
OPVN- 319	8/ 1/79	948.	3			1=CLEAR	
OPVN- 322	8/ 7/79	1009.	3			3=MEDIUM OVERCAST	
OPVN- 325	8/15/79	1008.	3			3=MEDIUM OVERCAST	
OPVN- 328	8/21/79	948.	3			3=MEDIUM OVERCAST	
OPVN- 331	8/28/79	1009.	3			2=SLIGHT OVERCAST	
OPVN- 340	10/10/79	1005.	3			2=SLIGHT OVERCAST	
OPVN- 343	10/24/79	1000.	3			1=CLEAR	
OPVN- 346	11/ 6/79	1010.	3			2=SLIGHT OVERCAST	
OPVN- 351	12/18/79	945.	3			1=CLEAR	
OPVN- 354	1/15/80	952.	3			4=VERY OVERCAST	
OPVN- 357	1/29/80	1100.	3			1=CLEAR	
OPVN- 360	2/13/80	959.	3			3=MEDIUM OVERCAST	
OPVN- 362	3/ 4/80	1115.	3			1=CLEAR	
OPVN- 365	3/18/80	958.	3			4=VERY OVERCAST	
OPVN- 368	4/ 1/80	1110.	3			6=RAIN	
OPVN- 336	9/19/79	1027.	4			4=VERY OVERCAST	
OPVN- 338	9/25/79	1016.	4			3=MEDIUM OVERCAST	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 192	1	4/ 3/79	429.	7.13	47.0	255.
OSEZ- 203	1	4/10/79	411.	7.96	51.5	268.
OSEZ- 204	1	4/17/79	436.	7.28	43.0	256.
OSEZ- 210	1	4/24/79	443.	7.56	38.5	151.
OSEZ- 215	1	5/ 1/79	424.	7.33	31.5	174.
OSEZ- 221	1	5/ 8/79	485.	7.29	21.0	186.
OSEZ- 227	1	5/15/79	195.	6.65	8.0	313.
OSEZ- 233	1	5/22/79	402.	7.04	34.0	173.
OSEZ- 300	1	5/29/79	144.	6.76	7.3	235.
OSEZ- 306	1	6/ 5/79	343.	6.98	17.5	264.
OSEZ- 312	1	6/12/79	328.	7.15	15.5	216.
OSEZ- 318	1	6/19/79	925.	7.80	21.0	209.
OSEZ- 332	1	6/26/79	451.	7.71	8.0	116.
OSEZ- 333	1	6/26/79	450.	7.85	8.7	117.
OSEZ- 334	1	6/26/79	438.	7.81	7.9	120.
OSEZ- 335	1	6/26/79	435.	7.82	8.2	126.
OSEZ- 336	1	6/26/79	445.	7.83	8.6	125.
OSEZ- 337	1	6/26/79	444.	7.83	8.4	127.
OSEZ- 338	1	6/26/79	443.	7.88	8.0	125.
OSEZ- 339	1	6/26/79	447.	7.93	8.1	125.
OSEZ- 340	1	6/26/79	447.	7.75	7.9	116.
OSEZ- 341	1	6/26/79	441.	7.80	9.1	117.
OSEZ- 347	1	7/ 3/79	570.	7.49	19.5	190.
OSEZ- 353	1	7/10/79	265.	7.04	7.4	215.
OSEZ- 372	1	7/17/79	502.	7.34	30.0	352.
OSEZ- 378	1	7/23/79	900.	7.75	21.0	216.
OSEZ- 384	1	7/31/79	410.	7.23	20.0	132.
OSEZ- 412	1	8/ 8/79	385.	7.31	12.0	108.
OSEZ- 418	1	8/14/79	372.	7.07	16.0	115.
OSEZ- 424	1	8/22/79	393.	7.43	7.6	96.
OSEZ- 430	1	8/29/79	820.	7.84	17.0	150.
OSEZ- 436	1	9/ 6/79	265.	6.83	5.2	312.
OSEZ- 442	1	9/11/79	264.	6.80	5.0	342.
OSEZ- 448	1	9/18/79	224.	6.60	2.9	307.
OSEZ- 454	1	9/26/79	158.	6.44	4.1	288.
OSEZ- 460	1	10/ 9/79	265.	7.04	12.0	220.
OSEZ- 466	1	10/23/79	307.	6.94	15.0	180.
OSEZ- 496	1	11/ 7/79	300.	6.98	26.0	131.
OSEZ- 502	1	11/21/79	916.	7.78	21.0	283.
OSEZ- 508	1	12/ 5/79	361.	7.21	23.0	110.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OSEZ- 192	1	4/ 3/79	0.011	< 0.004	0.010	0.12	0
OSEZ- 203	1	4/10/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OSEZ- 204	1	4/17/79	< 0.008	< 0.004	< 0.008	0.04	0
OSEZ- 210	1	4/24/79	< 0.008	< 0.004	< 0.008	< 0.04	< 0
OSEZ- 215	1	5/ 1/79	< 0.008	< 0.004	< 0.008	0.05	0
OSEZ- 221	1	5/ 8/79	< 0.008	< 0.004	< 0.008	4.68	4
OSEZ- 227	1	5/15/79	0.078	0.070	< 0.008	0.50	0
OSEZ- 233	1	5/22/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OSEZ- 300	1	5/29/79	0.080	0.060	0.020	1.12	1
OSEZ- 306	1	6/ 5/79	0.057	0.046	0.011	0.22	0
OSEZ- 312	1	6/12/79	0.012	< 0.004	< 0.008	0.04	0
OSEZ- 318	1	6/19/79	< 0.008	< 0.004	< 0.008	14.64	14
OSEZ- 332	1	6/26/79	< 0.008	< 0.004	0.010	0.01	0
OSEZ- 333	1	6/26/79	< 0.008	< 0.004	0.011	0.02	0
OSEZ- 334	1	6/26/79	< 0.008	< 0.004	0.011	0.02	0
OSEZ- 335	1	6/26/79	< 0.008	< 0.004	0.010	0.02	0
OSEZ- 336	1	6/26/79	< 0.008	< 0.004	0.010	0.02	0
OSEZ- 337	1	6/26/79	< 0.008	< 0.004	< 0.008	0.02	0
OSEZ- 338	1	6/26/79	< 0.008	< 0.004	< 0.008	0.01	0
OSEZ- 339	1	6/26/79	< 0.008	< 0.004	< 0.008	0.02	0
OSEZ- 340	1	6/26/79	< 0.008	< 0.004	< 0.008	< 0.01	< 0
OSEZ- 341	1	6/26/79	< 0.008	< 0.004	< 0.008	0.01	0
OSEZ- 347	1	7/ 3/79	< 0.009	< 0.004	< 0.008	5.32	5
OSEZ- 353	1	7/10/79	0.012	< 0.004	0.009	0.15	0
OSEZ- 372	1	7/17/79	0.017	< 0.004	0.013	6.29	6
OSEZ- 378	1	7/23/79	0.018		0.019	20.59	20
OSEZ- 384	1	7/31/79	0.016	< 0.004	0.016	0.97	0
OSEZ- 412	1	8/ 8/79	0.010	< 0.004	0.009	0.16	0
OSEZ- 418	1	8/14/79	0.005	< 0.004	0.005	0.06	0
OSEZ- 424	1	8/22/79	< 0.004	< 0.004	< 0.004	0.02	0
OSEZ- 430	1	8/29/79	0.293	0.012	0.281	7.61	7
OSEZ- 436	1	9/ 6/79	0.009		0.011	1.85	1
OSEZ- 442	1	9/11/79	0.010		0.012	1.57	1
OSEZ- 448	1	9/18/79	0.023	0.011	0.012	1.05	1
OSEZ- 454	1	9/26/79	0.014		0.018	0.58	0
OSEZ- 460	1	10/ 9/79	0.028	< 0.004	0.026	1.06	1
OSEZ- 466	1	10/23/79	0.097	0.053	0.044	0.26	0
OSEZ- 496	1	11/ 7/79	0.059	0.051	0.008	0.14	0
OSEZ- 502	1	11/21/79	0.477	0.277	0.200	18.06	18
OSEZ- 508	1	12/ 5/79	0.203	0.189	0.014	0.07	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
OSEZ- 192	1	4/ 3/79	3.85	3.73	3.86	0.398	1.
OSEZ- 203	1	4/10/79	5.51	5.47	5.52	0.196	1.
OSEZ- 204	1	4/17/79	4.32	4.28	4.33	0.173	0.
OSEZ- 210	1	4/24/79	4.14	4.10	4.15	0.061	0.
OSEZ- 215	1	5/ 1/79	3.51	3.46	3.52	0.101	0.
OSEZ- 221	1	5/ 8/79	8.67	3.99	8.68	0.268	0.
OSEZ- 227	1	5/15/79	3.84	3.34	3.92	1.465	2.
OSEZ- 233	1	5/22/79	3.20	3.19	3.21	0.251	1.
OSEZ- 300	1	5/29/79	3.73	2.61	3.81	2.051	2.
OSEZ- 306	1	6/ 5/79	4.26	4.04	4.32	1.611	2.
OSEZ- 312	1	6/12/79	2.26	2.22	2.27	0.628	1.
OSEZ- 318	1	6/19/79	35.58	20.94	35.59	1.097	4.
OSEZ- 332	1	6/26/79	3.22	3.21	3.23	0.929	1.
OSEZ- 333	1	6/26/79	3.44	3.42	3.45	0.916	1.
OSEZ- 334	1	6/26/79	3.34	3.32	3.35	0.938	1.
OSEZ- 335	1	6/26/79	3.42	3.40	3.43	0.936	1.
OSEZ- 336	1	6/26/79	3.47	3.45	3.48	0.940	1.
OSEZ- 337	1	6/26/79	4.04	4.02	4.05	0.942	1.
OSEZ- 338	1	6/26/79	3.34	3.33	3.35	0.942	1.
OSEZ- 339	1	6/26/79	3.94	3.92	3.95	0.940	1.
OSEZ- 340	1	6/26/79	3.39	3.38	3.40	0.931	1.
OSEZ- 341	1	6/26/79	3.76	3.75	3.77	0.936	1.
OSEZ- 347	1	7/ 3/79	13.05	7.73	13.06	1.288	2.
OSEZ- 353	1	7/10/79	3.15	3.00	3.16	1.104	1.
OSEZ- 372	1	7/17/79	13.99	7.70	14.01	5.884	7.
OSEZ- 378	1	7/23/79	28.67	8.08	28.69	3.057	6.
OSEZ- 384	1	7/31/79	2.61	1.64	2.63	1.671	2.
OSEZ- 412	1	8/ 8/79	56.69	56.53	56.70	0.809	1.
OSEZ- 418	1	8/14/79	2.20	2.14	2.21	0.811	1.
OSEZ- 424	1	8/22/79	2.35	2.33	2.35	0.295	0.
OSEZ- 430	1	8/29/79	13.58	5.97	13.87	2.411	4.
OSEZ- 436	1	9/ 6/79	5.09	3.24	5.10	3.478	3.
OSEZ- 442	1	9/11/79	5.11	3.54	5.12	3.124	3.
OSEZ- 448	1	9/18/79	3.68	2.63	3.70	1.959	2.
OSEZ- 454	1	9/26/79	2.91	2.33	2.92	1.056	1.
OSEZ- 460	1	10/ 9/79	3.17	2.11	3.20	0.761	1.
OSEZ- 466	1	10/23/79	2.29	2.03	2.39	0.432	0.
OSEZ- 496	1	11/ 7/79	2.19	2.05	2.25	0.198	0.
OSEZ- 502	1	11/21/79	27.27	9.21	27.75	0.598	4.
OSEZ- 508	1	12/ 5/79	1.77	1.70	1.97		2.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 514	1	12/19/79	425.	7.15	9.0	127.
OSEZ- 520	1	1/ 2/80	396.	7.39	12.0	97.
OSEZ- 526	1	1/16/80	662.	7.78	6.7	297.
OSEZ- 532	1	1/30/80	384.	7.33	5.6	116.
OSEZ- 538	1	2/14/80	497.	7.24	5.5	118.
OSEZ- 544	1	3/ 5/80	343.	6.98	5.9	150.
OSEZ- 552	1	3/19/80	500.	7.30	2.7	107.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OSEZ- 514	1	12/19/79	0.472	0.427	0.045	0.27	0
OSEZ- 520	1	1/ 2/80	0.006	< 0.004	< 0.004	0.01	0
OSEZ- 526	1	1/16/80	0.374	0.190	0.184	6.68	7
OSEZ- 532	1	1/30/80	0.014	0.009	0.005	0.01	0
OSEZ- 538	1	2/14/80	0.819	0.735	0.084	0.16	0
OSEZ- 544	1	3/ 5/80	0.061	0.054	0.007	0.05	0
OSEZ- 552	1	3/19/80	< 0.004	< 0.004	< 0.004	0.02	0

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
OSEZ- 514	1	12/19/79	2.19	1.92	2.66	0.249	0.
OSEZ- 520	1	1/ 2/80	1.27	1.26	1.28	0.098	0.
OSEZ- 526	1	1/16/80	10.92	4.24	11.29	0.195	0.
OSEZ- 532	1	1/30/80	1.60	1.59	1.61	0.414	0.
OSEZ- 538	1	2/14/80	2.04	1.88	2.86	0.452	0.
OSEZ- 544	1	3/ 5/80	2.03	1.98	2.09	0.971	1.
OSEZ- 552	1	3/19/80	1.93	1.91	1.93	0.291	0.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 1 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS	
NUM. VALS.			47	47	47	47	
AVERAGE			432.	7.35	15.5	185.	
ST. DEV.			173.	0.41	12.0	76.	
MIN. VAL.			144.	6.44	2.7	96.	
MAX. VAL.			925.	7.96	51.5	352.	

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
NUM. VALS.			47	43	47	47	4
AVERAGE			0.073	0.053	0.027	2.01	2
ST. DEV.			0.160	0.135	0.054	4.61	4
MIN. VAL.			0.004	0.004	0.004	0.01	0
MAX. VAL.			0.819	0.735	0.281	20.59	20

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO MG
NUM. VALS.			47	47	47	46	4
AVERAGE			7.02	5.01	7.09	1.071	1.
ST. DEV.			10.32	8.28	10.33	1.088	1.
MIN. VAL.			1.27	1.26	1.28	0.061	0.
MAX. VAL.			56.69	56.53	56.70	5.884	7.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 195	2	4/ 3/79	1525.	8.27	130.0	339.
OSEZ- 200	2	4/10/79	1150.	7.66	69.5	269.
OSEZ- 207	2	4/17/79	2540.	8.02	125.0	788.
OSEZ- 212	2	4/24/79	4450.	7.75	170.0	1455.
OSEZ- 218	2	5/ 1/79	1625.	8.29	160.0	440.
OSEZ- 224	2	5/ 8/79	1150.	8.33	71.0	195.
OSEZ- 230	2	5/15/79	1700.	7.87	170.0	876.
OSEZ- 236	2	5/22/79	1280.	7.91	145.0	336.
OSEZ- 303	2	5/29/79	2250.	8.11	175.0	850.
OSEZ- 309	2	6/ 5/79	1270.	7.36	145.0	439.
OSEZ- 315	2	6/12/79	1800.	7.93	150.0	452.
OSEZ- 321	2	6/19/79	1130.	8.09	150.0	262.
OSEZ- 324	2	6/21/79	1418.	7.98	62.0	125.
OSEZ- 325	2	6/21/79	1555.	8.20	70.0	176.
OSEZ- 326	2	6/21/79	1500.	8.04	65.5	155.
OSEZ- 327	2	6/21/79	1482.	8.03	82.0	199.
OSEZ- 328	2	6/21/79	1680.	8.07	128.0	270.
OSEZ- 329	2	6/21/79	1880.	8.04	165.0	510.
OSEZ- 330	2	6/21/79	1480.	7.84	153.0	380.
OSEZ- 331	2	6/21/79	1200.	7.78	125.0	270.
OSEZ- 344	2	6/26/79	1325.	7.97	170.0	425.
OSEZ- 350	2	7/ 3/79	1340.	7.53	130.0	441.
OSEZ- 356	2	7/10/79	1760.	8.56	140.0	410.
OSEZ- 359	2	7/13/79	1075.	7.70	36.0	76.
OSEZ- 360	2	7/13/79	953.	7.64	46.0	86.
OSEZ- 361	2	7/13/79	1115.	7.57	73.5	115.
OSEZ- 362	2	7/13/79	863.	7.68	34.0	64.
OSEZ- 363	2	7/13/79	1580.	8.12	128.0	219.
OSEZ- 364	2	7/13/79	2910.	8.18	155.0	523.
OSEZ- 365	2	7/13/79	1750.	7.94	148.0	421.
OSEZ- 366	2	7/13/79	1350.	7.66	120.0	321.
OSEZ- 367	2	7/13/79	1775.	7.57	170.0	684.
OSEZ- 368	2	7/13/79	1745.	7.62	155.0	514.
OSEZ- 369	2	7/13/79	2430.	8.14	170.0	602.
OSEZ- 370	2	7/13/79	1665.	8.13	128.0	279.
OSEZ- 371	2	7/13/79	1582.	7.54	150.0	464.
OSEZ- 375	2	7/17/79	1307.	8.27	130.0	303.
OSEZ- 381	2	7/23/79	1605.	8.19	143.0	443.
OSEZ- 387	2	7/31/79	1420.	8.20	160.0	372.
OSEZ- 390	2	8/ 3/79	2340.	8.56	92.0	231.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+ MG N
OSEZ- 195	2	4/ 3/79	0.068	0.025	0.043	20.88	20
OSEZ- 200	2	4/10/79	0.026	0.010	0.016	14.07	14
OSEZ- 207	2	4/17/79	0.063	0.006	0.057	77.77	77
OSEZ- 212	2	4/24/79	0.063	0.013	0.050	116.90	116
OSEZ- 218	2	5/ 1/79	0.028	0.019	0.009	45.60	45
OSEZ- 224	2	5/ 8/79	0.031	0.011	0.020	14.83	14
OSEZ- 230	2	5/15/79	0.044	0.023	0.021	44.40	44
OSEZ- 236	2	5/22/79	0.098	0.056	0.042	25.78	25
OSEZ- 303	2	5/29/79	0.119	0.044	0.075	16.36	16
OSEZ- 309	2	6/ 5/79	0.109	0.035	0.074	14.81	14
OSEZ- 315	2	6/12/79	0.069	0.023	0.046	93.17	93
OSEZ- 321	2	6/19/79	0.052	0.026	0.026	14.75	14
OSEZ- 324	2	6/21/79	0.166	0.048	0.118	36.75	36
OSEZ- 325	2	6/21/79	0.053	0.016	0.037	49.73	49
OSEZ- 326	2	6/21/79	0.027	0.007	0.020	45.31	45
OSEZ- 327	2	6/21/79	0.021	0.008	0.013	43.65	43
OSEZ- 328	2	6/21/79	0.027	0.007	0.020	65.46	65
OSEZ- 329	2	6/21/79	0.040	0.006	0.034	76.22	76
OSEZ- 330	2	6/21/79	0.047	0.012	0.035	40.62	40
OSEZ- 331	2	6/21/79	0.045	0.010	0.035	21.30	21
OSEZ- 344	2	6/26/79	0.073	0.022	0.051	25.44	25
OSEZ- 350	2	7/ 3/79	0.066	0.026	0.040	28.77	28
OSEZ- 356	2	7/10/79	0.032	< 0.004	0.029	43.58	43
OSEZ- 359	2	7/13/79	< 0.004	< 0.004	< 0.004	12.79	12
OSEZ- 360	2	7/13/79	< 0.004	< 0.004	< 0.004	10.25	10
OSEZ- 361	2	7/13/79	0.004	< 0.004	< 0.004	16.49	16
OSEZ- 362	2	7/13/79	< 0.004	< 0.004	< 0.004	7.60	7
OSEZ- 363	2	7/13/79	0.017	0.007	0.010	24.39	24
OSEZ- 364	2	7/13/79	0.077	0.025	0.052	136.59	136
OSEZ- 365	2	7/13/79	0.089	0.035	0.054	82.47	82
OSEZ- 366	2	7/13/79	0.066	0.024	0.042	26.93	27
OSEZ- 367	2	7/13/79	0.103	0.015	0.088	75.29	75
OSEZ- 368	2	7/13/79	0.084	0.015	0.069	75.84	75
OSEZ- 369	2	7/13/79	0.092	0.016	0.076	144.60	144
OSEZ- 370	2	7/13/79	0.043	0.007	0.036	91.58	91
OSEZ- 371	2	7/13/79	0.076	0.013	0.063	34.22	34
OSEZ- 375	2	7/17/79	0.051	0.015	0.036	20.86	20
OSEZ- 381	2	7/23/79	0.055	0.016	0.039	55.82	55
OSEZ- 387	2	7/31/79	0.026	0.007	0.019	25.80	25
OSEZ- 390	2	8/ 3/79	0.007		0.009	96.46	96

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
SEZ- 195	2	4/ 3/79	211.10	190.22	211.17	2.663	16.645
SEZ- 200	2	4/10/79	54.00	39.93	54.03	1.971	7.628
SEZ- 207	2	4/17/79	279.18	201.41	279.24	6.065	28.413
SEZ- 212	2	4/24/79	703.13	586.23	703.19	12.492	87.953
SEZ- 218	2	5/ 1/79	149.41	103.81	149.44	7.467	23.887
SEZ- 224	2	5/ 8/79	78.03	63.20	78.06	1.882	7.170
SEZ- 230	2	5/15/79	182.95	138.55	182.99	9.327	51.861
SEZ- 236	2	5/22/79	91.88	66.10	91.98	5.707	18.506
SEZ- 303	2	5/29/79	516.80	500.44	516.92	7.497	74.886
SEZ- 309	2	6/ 5/79	123.51	108.70	123.62	7.294	20.787
SEZ- 315	2	6/12/79	150.41	57.24	150.48	9.240	28.549
SEZ- 321	2	6/19/79	85.87	71.12	85.92	5.798	29.225
SEZ- 324	2	6/21/79	94.11	57.36	94.28	3.158	6.873
SEZ- 325	2	6/21/79	103.86	54.13	103.91	3.225	8.864
SEZ- 326	2	6/21/79	97.82	52.51	97.85	2.936	7.924
SEZ- 327	2	6/21/79	98.52	54.87	98.54	5.332	11.021
SEZ- 328	2	6/21/79	139.40	73.94	139.43	8.804	19.705
SEZ- 329	2	6/21/79	167.27	91.05	167.31	8.504	30.546
SEZ- 330	2	6/21/79	112.92	72.30	112.97	6.763	24.849
SEZ- 331	2	6/21/79	75.29	53.99	75.34	6.963	19.982
SEZ- 344	2	6/26/79	145.43	119.99	145.50	5.809	25.900
SEZ- 350	2	7/ 3/79	113.91	85.14	113.98	6.140	24.203
SEZ- 356	2	7/10/79	223.39	179.81	223.42	6.655	24.603
SEZ- 359	2	7/13/79	41.30	28.51	41.30	1.375	6.229
SEZ- 360	2	7/13/79	36.48	26.23	36.48	2.343	7.932
SEZ- 361	2	7/13/79	48.75	32.26	48.75	3.163	7.108
SEZ- 362	2	7/13/79	27.06	19.46	27.06	1.626	3.593
SEZ- 363	2	7/13/79	153.64	129.25	153.66	3.379	23.694
SEZ- 364	2	7/13/79	363.15	226.56	363.23	6.350	28.967
SEZ- 365	2	7/13/79	181.52	99.05	181.61	4.608	27.484
SEZ- 366	2	7/13/79	105.93	79.00	106.00	5.667	21.827
SEZ- 367	2	7/13/79	187.22	111.93	187.32	8.502	36.821
SEZ- 368	2	7/13/79	200.80	124.96	200.88	7.705	36.272
SEZ- 369	2	7/13/79	301.80	157.20	301.89	7.159	43.521
SEZ- 370	2	7/13/79	152.38	60.80	152.42	3.834	17.323
SEZ- 371	2	7/13/79	143.84	109.62	143.92	10.050	29.022
SEZ- 375	2	7/17/79	120.39	99.53	120.44	3.538	19.410
SEZ- 381	2	7/23/79	159.55	103.73	159.61	3.767	24.382
SEZ- 387	2	7/31/79	136.53	110.73	136.56	3.938	26.694
SEZ- 390	2	8/ 3/79	270.38	173.92	270.39	4.024	22.496

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 391	2	8/ 3/79	1060.	7.84	46.0	102.
OSEZ- 392	2	8/ 3/79	1172.	7.78	90.0	184.
OSEZ- 393	2	8/ 3/79	1025.	7.74	40.0	119.
OSEZ- 394	2	8/ 3/79	1370.	7.72	69.0	179.
OSEZ- 395	2	8/ 3/79	1285.	7.72	115.0	256.
OSEZ- 396	2	8/ 3/79	1475.	7.89	94.5	221.
OSEZ- 397	2	8/ 3/79	1300.	7.87	117.0	218.
OSEZ- 398	2	8/ 3/79	1518.	7.81	147.0	314.
OSEZ- 399	2	8/ 3/79	2400.	8.44	165.0	402.
OSEZ- 400	2	8/ 3/79	1400.	7.92	138.0	285.
OSEZ- 401	2	8/ 3/79	1505.	7.82	152.0	330.
OSEZ- 402	2	8/ 3/79	1750.	8.23	135.0	300.
OSEZ- 403	2	8/ 3/79	1960.	8.34	140.0	335.
OSEZ- 404	2	8/ 3/79	1270.	7.72	120.0	245.
OSEZ- 405	2	8/ 3/79	1840.	8.22	130.0	303.
OSEZ- 406	2	8/ 3/79	1470.	7.90	150.0	316.
OSEZ- 407	2	8/ 3/79	1650.	8.13	128.0	281.
OSEZ- 408	2	8/ 3/79	1170.	7.61	125.0	255.
OSEZ- 409	2	8/ 3/79	1770.	7.42	560.0	488.
OSEZ- 410	2	8/ 3/79	1865.	7.30	650.0	126.
OSEZ- 411	2	8/ 3/79	1015.	7.43	48.0	128.
OSEZ- 415	2	8/ 8/79	1440.	8.16	87.0	164.
OSEZ- 421	2	8/14/79	1370.	8.26	135.0	220.
OSEZ- 427	2	8/22/79	1190.	8.27	98.0	121.
OSEZ- 433	2	8/29/79	1215.	8.05	83.0	146.
OSEZ- 439	2	9/ 6/79	1670.	8.45	135.0	127.
OSEZ- 445	2	9/11/79	1755.	8.34	165.0	286.
OSEZ- 451	2	9/18/79	1960.	8.05	142.0	216.
OSEZ- 457	2	9/26/79	1130.	7.94	117.0	190.
OSEZ- 463	2	10/ 9/79	1175.	7.98	37.0	166.
OSEZ- 469	2	10/23/79	1102.	7.95	83.0	248.
OSEZ- 472	2	10/30/79	231.	7.49	4.8	78.
OSEZ- 473	2	10/30/79	917.	7.82	23.0	455.
OSEZ- 474	2	10/30/79	3650.	8.38	155.0	218.
OSEZ- 475	2	10/30/79	1680.	8.18	67.0	232.
OSEZ- 476	2	10/30/79	1870.	8.34	51.0	182.
OSEZ- 477	2	10/30/79	1565.	8.21	76.5	220.
OSEZ- 478	2	10/30/79	1377.	8.02	85.0	245.
OSEZ- 479	2	10/30/79	1160.	7.63	55.0	167.
OSEZ- 480	2	10/30/79	1270.	8.02	143.0	393.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA

PROJECT OSEZ DATE OF PRIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+N MG N
OSEZ- 391	2	8/ 3/79	0.008	< 0.004	0.008	9.79	9
OSEZ- 392	2	8/ 3/79	0.006		0.007	13.96	13
OSEZ- 393	2	8/ 3/79	0.010		0.013	7.18	7
OSEZ- 394	2	8/ 3/79	0.005		0.007	32.45	32
OSEZ- 395	2	8/ 3/79	0.010	< 0.004	0.009	22.89	22
OSEZ- 396	2	8/ 3/79	0.011		0.013	36.50	36
OSEZ- 397	2	8/ 3/79	0.012	< 0.004	0.011	25.21	25
OSEZ- 398	2	8/ 3/79	0.010		0.011	37.95	37
OSEZ- 399	2	8/ 3/79	0.015		0.016	75.89	75
OSEZ- 400	2	8/ 3/79	0.014	< 0.004	0.011	37.95	37
OSEZ- 401	2	8/ 3/79	0.016	< 0.004	0.013	35.92	35
OSEZ- 402	2	8/ 3/79	0.021	0.005	0.016	46.64	46
OSEZ- 403	2	8/ 3/79	0.024	< 0.004	0.023	51.27	51
OSEZ- 404	2	8/ 3/79	0.016	< 0.004	0.012	20.86	20
OSEZ- 405	2	8/ 3/79	0.015	< 0.004	0.014	53.01	53
OSEZ- 406	2	8/ 3/79	0.013	< 0.004	0.012	29.84	29
OSEZ- 407	2	8/ 3/79	0.019	< 0.004	0.016	35.34	35
OSEZ- 408	2	8/ 3/79	0.023	0.007	0.016	12.17	12
OSEZ- 409	2	8/ 3/79	0.034	0.010	0.024	41.14	41
OSEZ- 410	2	8/ 3/79	0.011	< 0.004	0.007	6.02	6
OSEZ- 411	2	8/ 3/79	0.015	0.007	0.008	7.65	7
OSEZ- 415	2	8/ 8/79	0.013	< 0.004	0.009	8.86	8
OSEZ- 421	2	8/14/79	0.021	0.006	0.015	32.96	32
OSEZ- 427	2	8/22/79	0.020	0.012	0.008	7.99	8
OSEZ- 433	2	8/29/79	0.015	0.006	0.009	7.41	7
OSEZ- 439	2	9/ 6/79	0.014	0.006	0.008	23.15	23
OSEZ- 445	2	9/11/79	0.017	< 0.004	0.013	13.95	13
OSEZ- 451	2	9/18/79	0.015	0.004	0.011	14.32	14
OSEZ- 457	2	9/26/79	0.015	0.004	0.011	6.58	6
OSEZ- 463	2	10/ 9/79	0.025	0.012	0.013	7.82	7
OSEZ- 469	2	10/23/79	0.023	0.013	0.010	6.07	6
OSEZ- 472	2	10/30/79	0.059	0.034	0.025	1.77	1
OSEZ- 473	2	10/30/79	0.020	< 0.004	0.016	93.54	93
OSEZ- 474	2	10/30/79	0.009	< 0.004	0.008	39.05	39
OSEZ- 475	2	10/30/79	0.010		0.011	46.58	46
OSEZ- 476	2	10/30/79	0.012	< 0.004	0.011	30.28	30
OSEZ- 477	2	10/30/79	0.014	0.005	0.009	21.80	21
OSEZ- 478	2	10/30/79	0.030	< 0.004	0.027	10.56	10
OSEZ- 479	2	10/30/79	0.027	< 0.004	0.023	16.74	16
OSEZ- 480	2	10/30/79	0.019	0.005	0.014	38.71	38

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OSEZ- 391	2	8/ 3/79	37.09	27.30	37.10	2.232	7.034
OSEZ- 392	2	8/ 3/79	66.49	52.53	66.50	4.113	18.036
OSEZ- 393	2	8/ 3/79	28.82	21.64	28.83	2.053	5.887
OSEZ- 394	2	8/ 3/79	85.22	52.77	85.23	5.435	15.105
OSEZ- 395	2	8/ 3/79	86.52	63.63	86.53	5.043	17.611
OSEZ- 396	2	8/ 3/79	119.62	83.12	119.63	3.766	14.552
OSEZ- 397	2	8/ 3/79	89.35	64.14	89.36	3.755	17.526
OSEZ- 398	2	8/ 3/79	131.38	93.43	131.39	5.468	28.698
OSEZ- 399	2	8/ 3/79	331.35	255.46	331.37	4.225	39.530
OSEZ- 400	2	8/ 3/79	133.34	95.39	133.35	4.068	26.149
OSEZ- 401	2	8/ 3/79	140.31	104.39	140.33	4.561	26.319
OSEZ- 402	2	8/ 3/79	209.77	163.13	209.79	3.744	24.280
OSEZ- 403	2	8/ 3/79	192.57	141.30	192.59	3.273	28.018
OSEZ- 404	2	8/ 3/79	88.70	67.84	88.72	3.979	18.545
OSEZ- 405	2	8/ 3/79	172.10	119.09	172.12	3.934	21.264
OSEZ- 406	2	8/ 3/79	127.24	97.40	127.25	3.889	27.593
OSEZ- 407	2	8/ 3/79	145.54	110.20	145.56	3.800	20.542
OSEZ- 408	2	8/ 3/79	76.29	64.12	76.31	4.942	23.430
OSEZ- 409	2	8/ 3/79	285.63	244.49	285.66	8.861	70.638
OSEZ- 410	2	8/ 3/79	398.86	392.84	398.87	2.826	98.674
OSEZ- 411	2	8/ 3/79	42.97	35.32	42.99	3.195	8.053
OSEZ- 415	2	8/ 8/79	107.21	98.35	107.22	2.590	13.412
OSEZ- 421	2	8/14/79	97.13	64.17	97.15	3.192	20.151
OSEZ- 427	2	8/22/79	101.97	93.98	101.99	2.263	13.668
OSEZ- 433	2	8/29/79	74.36	66.95	74.38	1.488	10.168
OSEZ- 439	2	9/ 6/79	206.61	183.46	206.62	6.076	24.856
OSEZ- 445	2	9/11/79	167.95	154.00	167.97	8.233	32.763
OSEZ- 451	2	9/18/79	179.51	165.19	179.53	5.486	28.582
OSEZ- 457	2	9/26/79	103.86	97.28	103.88	2.632	17.060
OSEZ- 463	2	10/ 9/79	54.84	47.02	54.87	4.605	12.314
OSEZ- 469	2	10/23/79	110.32	104.25	110.34	2.010	2.955
OSEZ- 472	2	10/30/79	26.64	24.87	26.70	1.521	4.474
OSEZ- 473	2	10/30/79	418.21	324.67	418.23	6.961	88.378
OSEZ- 474	2	10/30/79	133.32	94.27	133.33	6.754	21.950
OSEZ- 475	2	10/30/79	170.64	124.06	170.65	6.262	18.549
OSEZ- 476	2	10/30/79	135.38	105.10	135.39	4.787	13.068
OSEZ- 477	2	10/30/79	96.23	74.43	96.24	4.361	17.189
OSEZ- 478	2	10/30/79	80.44	69.88	80.47	4.536	18.453
OSEZ- 479	2	10/30/79	86.85	70.11	86.88	5.235	12.806
OSEZ- 480	2	10/30/79	176.36	137.65	176.38	6.437	40.701

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTIN

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
SEZ- 481	2	10/30/79	1890.	7.95	148.0	418.
SEZ- 482	2	10/30/79	1360.	7.80	110.0	270.
SEZ- 483	2	10/30/79	1705.	7.29	150.0	390.
SEZ- 484	2	10/30/79	1440.	7.19	125.0	369.
SEZ- 485	2	10/30/79	3690.	8.41	170.0	460.
SEZ- 486	2	10/30/79	2330.	7.78	155.0	468.
SEZ- 487	2	10/30/79	1470.	7.24	128.0	352.
SEZ- 488	2	10/30/79	4210.	7.55	1200.0	2160.
SEZ- 489	2	10/30/79	1618.	7.70	160.0	415.
SEZ- 490	2	10/30/79	1100.	7.60	81.5	212.
SEZ- 491	2	10/30/79	1352.	7.85	115.0	255.
SEZ- 492	2	10/30/79	1050.	7.69	86.5	212.
SEZ- 493	2	10/30/79	1503.	7.64	143.0	285.
SEZ- 494	2	10/30/79	1110.	7.62	83.5	200.
SEZ- 495	2	10/30/79	1100.	7.45	110.0	280.
SEZ- 499	2	11/ 7/79	1157.	8.02	135.0	300.
SEZ- 505	2	11/21/79	1065.	7.73	115.0	184.
SEZ- 511	2	12/ 5/79	1418.	7.56	180.0	184.
SEZ- 517	2	12/19/79	1123.	8.00	97.0	100.
SEZ- 523	2	1/ 2/80	1382.	8.89	57.0	168.
SEZ- 529	2	1/16/80	1095.	7.91	153.0	138.
SEZ- 535	2	1/30/80	1237.	7.83	160.0	121.
SEZ- 541	2	2/14/80	1480.	7.61	207.0	184.
SEZ- 547	2	3/ 5/80	1293.	8.13	96.0	116.
SEZ- 555	2	3/19/80	1192.	8.12	80.0	95.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

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PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 481	2	10/30/79	0.025	0.009	0.016	53.89	53.92
OSEZ- 482	2	10/30/79	0.013	< 0.004	0.010	20.00	20.01
OSEZ- 483	2	10/30/79	0.019	0.005	0.014	24.33	24.35
OSEZ- 484	2	10/30/79	0.014	< 0.004	0.014	16.46	16.47
OSEZ- 485	2	10/30/79	0.015		0.016	120.06	120.08
OSEZ- 486	2	10/30/79	0.021	< 0.004	0.018	48.21	48.23
OSEZ- 487	2	10/30/79	0.016	< 0.004	0.014	19.27	19.29
OSEZ- 488	2	10/30/79	0.161		0.180	124.17	124.33
OSEZ- 489	2	10/30/79	0.020	< 0.004	0.018	22.08	22.10
OSEZ- 490	2	10/30/79	0.016	< 0.004	0.014	9.16	9.18
OSEZ- 491	2	10/30/79	0.026	< 0.004	0.023	19.38	19.41
OSEZ- 492	2	10/30/79	0.024	0.006	0.018	7.47	7.49
OSEZ- 493	2	10/30/79	0.014	< 0.004	0.012	20.39	20.40
OSEZ- 494	2	10/30/79	0.033	0.007	0.026	9.16	9.19
OSEZ- 495	2	10/30/79	0.019	< 0.004	0.016	9.21	9.23
OSEZ- 499	2	11/ 7/79	0.034	0.023	0.011	10.79	10.82
OSEZ- 505	2	11/21/79	0.027	0.019	0.008	3.21	3.24
OSEZ- 511	2	12/ 5/79	0.036	0.027	0.009	8.28	8.32
OSEZ- 517	2	12/19/79	0.036	0.029	0.007	5.36	5.40
OSEZ- 523	2	1/ 2/80	0.029	0.017	0.012	13.13	13.16
OSEZ- 529	2	1/16/80	0.052	0.042	0.010	6.55	6.60
OSEZ- 535	2	1/30/80	0.039	0.030	0.009	6.61	6.65
OSEZ- 541	2	2/14/80	0.037	0.027	0.010	9.00	9.04
OSEZ- 547	2	3/ 5/80	0.018	0.014	< 0.004	7.81	7.83
OSEZ- 555	2	3/19/80	0.025	0.019	0.006	4.04	4.07

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

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PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OSEZ- 481	2	10/30/79	262.53	208.64	262.56	6.317	54.805
OSEZ- 482	2	10/30/79	101.96	81.96	101.97	4.110	22.473
OSEZ- 483	2	10/30/79	315.19	290.86	315.21	8.109	41.049
OSEZ- 484	2	10/30/79	140.65	124.19	140.66	9.584	31.674
OSEZ- 485	2	10/30/79	436.52	316.46	436.54	6.798	79.225
OSEZ- 486	2	10/30/79	263.68	215.47	263.70	7.366	57.640
OSEZ- 487	2	10/30/79	140.65	121.38	140.67	8.163	33.244
OSEZ- 488	2	10/30/79	841.73	717.56	841.89	17.655	243.046
OSEZ- 489	2	10/30/79	215.97	193.89	215.99	6.372	65.703
OSEZ- 490	2	10/30/79	75.86	66.70	75.88	4.001	18.461
OSEZ- 491	2	10/30/79	96.23	76.85	96.26	5.290	22.822
OSEZ- 492	2	10/30/79	55.48	48.01	55.50	3.804	15.758
OSEZ- 493	2	10/30/79	153.69	133.30	153.70	5.388	39.349
OSEZ- 494	2	10/30/79	66.24	57.08	66.27	4.186	17.458
OSEZ- 495	2	10/30/79	76.54	67.33	76.56	5.115	35.032
OSEZ- 499	2	11/ 7/79	87.08	76.29	87.11	4.570	21.992
OSEZ- 505	2	11/21/79	53.52	50.31	53.55	2.403	17.936
OSEZ- 511	2	12/ 5/79	155.92	147.64	155.96		49.061
OSEZ- 517	2	12/19/79	74.21	68.85	74.25	1.241	10.519
OSEZ- 523	2	1/ 2/80	10.24		10.27	1.843	0.733
OSEZ- 529	2	1/16/80	100.15	93.60	100.20	2.735	20.900
OSEZ- 535	2	1/30/80	99.12	92.51	99.16		22.739
OSEZ- 541	2	2/14/80	145.71	136.71	145.75	3.671	31.929
OSEZ- 547	2	3/ 5/80	103.33	95.52	103.35	5.051	13.285
OSEZ- 555	2	3/19/80	8.98	4.94	9.01	1.077	7.759

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 2 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			105	105	105	105
AVERAGE			1565.	7.92	136.6	320.
ST. DEV.			626.	0.32	131.3	266.
MIN. VAL.			231.	7.19	4.8	64.
MAX. VAL.			4450.	8.89	1200.0	2160.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			105	95	105	105	105
AVERAGE			0.035	0.012	0.024	34.09	34.13
ST. DEV.			0.031	0.011	0.025	31.27	31.28
MIN. VAL.			0.004	0.004	0.004	1.77	1.83
MAX. VAL.			0.166	0.056	0.180	144.60	144.69

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			105	104	105	103	105
AVERAGE			154.54	121.64	154.58	5.050	27.870
ST. DEV.			127.19	108.54	127.21	2.595	28.241
MIN. VAL.			8.98	4.94	9.01	1.077	0.733
MAX. VAL.			841.73	717.56	841.89	17.655	243.046

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 196	3	4/ 3/79	2040.	7.11	73.0	368.
OSEZ- 198	3	4/10/79	2075.	7.10	51.0	317.
OSEZ- 208	3	4/17/79	2165.	7.11	84.0	430.
OSEZ- 213	3	4/24/79	2200.	7.17	51.0	464.
OSEZ- 219	3	5/ 1/79	2100.	7.13	110.0	377.
OSEZ- 225	3	5/ 8/79	2050.	7.18	55.0	424.
OSEZ- 231	3	5/15/79	1950.	7.11	35.0	433.
OSEZ- 237	3	5/22/79	2100.	7.14	90.0	417.
OSEZ- 304	3	5/29/79	1930.	7.11	38.0	393.
OSEZ- 310	3	6/ 5/79	2000.	7.07	28.5	396.
OSEZ- 316	3	6/12/79	1960.	7.05	62.0	334.
OSEZ- 322	3	6/19/79	2035.	7.07	81.0	520.
OSEZ- 345	3	6/26/79	2030.	7.12	45.0	463.
OSEZ- 351	3	7/ 3/79	1970.	7.03	35.0	465.
OSEZ- 357	3	7/10/79	1840.	7.12	98.0	396.
OSEZ- 376	3	7/17/79	1915.	7.12	43.0	350.
OSEZ- 382	3	7/23/79	1880.	7.19	31.0	282.
OSEZ- 388	3	7/31/79	2050.	7.12	39.0	244.
OSEZ- 416	3	8/ 8/79	1990.	7.13	49.0	336.
OSEZ- 422	3	8/14/79	2065.	7.10	89.5	235.
OSEZ- 428	3	8/22/79	2025.	7.17	68.0	206.
OSEZ- 434	3	8/29/79	2000.	7.15	31.0	209.
OSEZ- 440	3	9/ 6/79	1812.	7.43	32.5	244.
OSEZ- 446	3	9/11/79	1805.	7.19	48.0	217.
OSEZ- 452	3	9/18/79	1920.	7.13	52.5	248.
OSEZ- 458	3	9/26/79	1705.	7.23	35.5	238.
OSEZ- 464	3	10/ 9/79	1680.	7.17	33.0	202.
OSEZ- 470	3	10/23/79	1790.	7.10	44.0	277.
OSEZ- 500	3	11/ 7/79	1700.	7.20	84.0	282.
OSEZ- 506	3	11/21/79	1780.	7.23	33.0	286.
OSEZ- 512	3	12/ 5/79	1765.	7.06	107.0	186.
OSEZ- 518	3	12/19/79	1690.	7.12	52.5	196.
OSEZ- 524	3	1/ 2/80	1750.	7.24	55.5	193.
OSEZ- 530	3	1/16/80	1575.	7.18	71.5	164.
OSEZ- 536	3	1/30/80	1075.	7.09	45.5	191.
OSEZ- 542	3	2/14/80	1600.	7.27	69.0	199.
OSEZ- 548	3	3/ 5/80	1565.	7.28	40.5	166.
OSEZ- 556	3	3/19/80	1730.	7.12	36.5	199.
OSEZ- 558	3	3/21/80				

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 196	3	4/ 3/79	0.054	0.018	0.036	74.19	74.24
OSEZ- 198	3	4/10/79	0.049	0.012	0.037	76.77	76.82
OSEZ- 208	3	4/17/79	0.051	0.011	0.040	76.64	76.69
OSEZ- 213	3	4/24/79	0.079	0.014	0.065	90.79	90.87
OSEZ- 219	3	5/ 1/79	0.009	< 0.004	< 0.008	83.58	83.59
OSEZ- 225	3	5/ 8/79	0.028	0.008	0.020	87.43	87.46
OSEZ- 231	3	5/15/79	0.031	0.017	0.014	81.87	81.90
OSEZ- 237	3	5/22/79	0.069	0.028	0.041	90.17	90.24
OSEZ- 304	3	5/29/79	0.063	0.020	0.043	86.27	86.33
OSEZ- 310	3	6/ 5/79	0.058	0.016	0.042	80.12	80.18
OSEZ- 316	3	6/12/79	0.039	0.010	0.029	78.80	78.84
OSEZ- 322	3	6/19/79	0.045	0.019	0.026	86.92	86.97
OSEZ- 345	3	6/26/79	0.057	0.012	0.045	82.30	82.36
OSEZ- 351	3	7/ 3/79	0.076	0.020	0.056	88.46	88.54
OSEZ- 357	3	7/10/79	0.037		0.039	77.56	77.60
OSEZ- 376	3	7/17/79	0.051	0.012	0.039	93.79	93.84
OSEZ- 382	3	7/23/79	0.010	< 0.004	0.009	139.66	139.67
OSEZ- 388	3	7/31/79	0.013	< 0.004	0.011	105.28	105.29
OSEZ- 416	3	8/ 8/79	0.011		0.013	61.70	61.71
OSEZ- 422	3	8/14/79	0.011	< 0.004	0.010	56.42	56.43
OSEZ- 428	3	8/22/79	0.020	0.005	0.015	52.43	52.45
OSEZ- 434	3	8/29/79	0.074	0.063	0.011	58.86	58.93
OSEZ- 440	3	9/ 6/79	0.039	0.029	0.010	57.34	57.38
OSEZ- 446	3	9/11/79	0.010		0.011	56.72	56.73
OSEZ- 452	3	9/18/79	0.007		0.008	60.83	60.84
OSEZ- 458	3	9/26/79	0.019	< 0.004	0.017	52.80	52.82
OSEZ- 464	3	10/ 9/79	0.017	< 0.004	0.013	63.21	63.23
OSEZ- 470	3	10/23/79	0.014	0.005	0.009	41.95	41.96
OSEZ- 500	3	11/ 7/79	0.028	0.016	0.012	62.59	62.62
OSEZ- 506	3	11/21/79	0.026	0.012	0.014	56.67	56.70
OSEZ- 512	3	12/ 5/79	0.032	0.021	0.011	53.12	53.15
OSEZ- 518	3	12/19/79	0.018	0.011	0.007	47.42	47.44
OSEZ- 524	3	1/ 2/80	0.028	0.016	0.012	48.37	48.40
OSEZ- 530	3	1/16/80	0.013	0.006	0.007	42.10	42.11
OSEZ- 536	3	1/30/80	0.017		0.018	34.14	34.16
OSEZ- 542	3	2/14/80	0.009	< 0.004	0.006	39.45	39.46
OSEZ- 548	3	3/ 5/80	0.017	0.011	0.006	43.70	43.72
OSEZ- 556	3	3/19/80	0.032	0.024	0.008	40.75	40.78
OSEZ- 558	3	3/21/80				35.85	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L		OPO4 MG P/L	TPO4 MG P/L
OSEZ- 196	3	4/ 3/79	213.85	139.66	213.90		0.016	31.366
OSEZ- 198	3	4/10/79	133.95	57.18	134.00	<	0.040	31.734
OSEZ- 208	3	4/17/79	145.74	69.10	145.79		0.034	32.494
OSEZ- 213	3	4/24/79	143.35	52.56	143.43		0.098	32.935
OSEZ- 219	3	5/ 1/79	133.11	49.53	133.12		1.791	31.219
OSEZ- 225	3	5/ 8/79	152.83	65.40	152.86		0.046	32.063
OSEZ- 231	3	5/15/79	113.11	31.24	113.14	<	0.040	27.905
OSEZ- 237	3	5/22/79	118.10	27.93	118.17		7.420	18.616
OSEZ- 304	3	5/29/79	137.32	51.05	137.38		0.026	25.342
OSEZ- 310	3	6/ 5/79	128.54	48.42	128.60		0.015	4.327
OSEZ- 316	3	6/12/79	123.73	44.93	123.77		0.049	32.913
OSEZ- 322	3	6/19/79	122.28	35.36	122.33		0.031	29.580
OSEZ- 345	3	6/26/79	131.04	48.74	131.10		0.061	25.291
OSEZ- 351	3	7/ 3/79	192.35	103.89	192.43		0.329	43.911
OSEZ- 357	3	7/10/79	118.02	40.46	118.06		10.255	24.769
OSEZ- 376	3	7/17/79	135.51	41.72	135.56		0.266	25.507
OSEZ- 382	3	7/23/79	119.97		119.98		0.560	24.382
OSEZ- 388	3	7/31/79	122.06	16.78	122.07	<	0.010	18.947
OSEZ- 416	3	8/ 8/79	122.67	60.97	122.68		2.111	24.668
OSEZ- 422	3	8/14/79	124.25	67.83	124.26		8.997	27.096
OSEZ- 428	3	8/22/79	188.87	136.44	188.89	<	0.010	44.631
OSEZ- 434	3	8/29/79	108.92	50.06	108.99	<	0.010	23.237
OSEZ- 440	3	9/ 6/79	104.92	47.58	104.96	<	0.010	19.162
OSEZ- 446	3	9/11/79	99.06	42.34	99.07		9.846	24.887
OSEZ- 452	3	9/18/79	105.51	44.68	105.52		8.112	21.487
OSEZ- 458	3	9/26/79	79.03	26.23	79.05		0.289	32.209
OSEZ- 464	3	10/ 9/79	88.54	25.33	88.56		10.878	20.364
OSEZ- 470	3	10/23/79	108.69	66.74	108.70		11.139	23.306
OSEZ- 500	3	11/ 7/79	103.10	40.51	103.13		6.945	28.576
OSEZ- 506	3	11/21/79	91.01	34.34	91.04		8.351	23.576
OSEZ- 512	3	12/ 5/79	100.81	47.69	100.84			28.671
OSEZ- 518	3	12/19/79	84.05	36.63	84.07		6.504	20.326
OSEZ- 524	3	1/ 2/80	4.00		4.03		0.275	0.693
OSEZ- 530	3	1/16/80	68.85	26.75	68.86		5.282	18.027
OSEZ- 536	3	1/30/80	71.13	36.99	71.15		8.944	18.565
OSEZ- 542	3	2/14/80	78.34	38.89	78.35		5.363	19.412
OSEZ- 548	3	3/ 5/80	67.56	23.86	67.58		3.003	19.084
OSEZ- 556	3	3/19/80	74.14	33.39	74.17		2.231	17.788
OSEZ- 558	3	3/21/80						

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 3 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			38	38	38	38
AVERAGE			1877.	7.15	56.0	304.
ST. DEV.			215.	0.08	23.0	103.
MIN. VAL.			1075.	7.03	28.5	164.
MAX. VAL.			2200.	7.43	110.0	520.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			38	33	38	39	38
AVERAGE			0.033	0.014	0.022	67.87	68.75
ST. DEV.			0.022	0.011	0.016	22.23	21.90
MIN. VAL.			0.007	0.004	0.006	34.14	34.16
MAX. VAL.			0.079	0.063	0.065	139.66	139.67

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			38	36	38	37	38
AVERAGE			114.69	50.31	114.73	3.227	24.975
ST. DEV.			37.79	27.11	37.80	4.015	8.405
MIN. VAL.			4.00	16.78	4.03	0.010	0.693
MAX. VAL.			213.85	139.66	213.90	11.139	44.631

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 197	4	4/ 3/79	1600.	7.62	21.5	274.
OSEZ- 199	4	4/10/79	1680.	7.53	21.5	248.
OSEZ- 209	4	4/17/79	1910.	7.43	74.0	323.
OSEZ- 214	4	4/24/79	1840.	7.37	30.0	245.
OSEZ- 220	4	5/ 1/79	1765.	7.53	35.5	762.
OSEZ- 226	4	5/ 8/79	1765.	7.39	50.0	312.
OSEZ- 232	4	5/15/79	1550.	7.57	25.0	234.
OSEZ- 238	4	5/22/79	1950.	7.36	67.0	247.
OSEZ- 305	4	5/29/79	1560.	7.47	24.0	227.
OSEZ- 311	4	6/ 5/79	1550.	7.43	33.5	202.
OSEZ- 317	4	6/12/79	1555.	7.36	47.5	243.
OSEZ- 323	4	6/19/79	1790.	7.34	72.0	281.
OSEZ- 346	4	6/26/79	1750.	7.47	28.0	248.
OSEZ- 352	4	7/ 3/79	1745.	7.39	23.0	271.
OSEZ- 358	4	7/10/79	1585.	7.44	46.0	272.
OSEZ- 377	4	7/17/79	1560.	7.51	19.0	251.
OSEZ- 383	4	7/23/79	1660.	7.47	19.5	268.
OSEZ- 389	4	7/31/79	1735.	7.53	21.5	277.
OSEZ- 417	4	8/ 8/79	1650.	7.48	21.0	238.
OSEZ- 423	4	8/14/79	1680.	7.45	40.0	240.
OSEZ- 429	4	8/22/79	1680.	7.51	25.5	248.
OSEZ- 435	4	8/29/79	1745.	7.52	33.5	218.
OSEZ- 441	4	9/ 6/79	1540.	7.71	20.0	211.
OSEZ- 447	4	9/11/79	1560.	7.50	28.0	222.
OSEZ- 453	4	9/18/79	1540.	7.67	16.8	208.
OSEZ- 459	4	9/26/79	1365.	7.66	22.0	213.
OSEZ- 465	4	10/ 9/79	1290.	7.51	18.0	196.
OSEZ- 471	4	10/23/79	1510.	7.64	21.0	200.
OSEZ- 501	4	11/ 7/79	1425.	7.68	22.5	201.
OSEZ- 507	4	11/21/79	1590.	7.53	24.0	235.
OSEZ- 513	4	12/ 5/79	1525.	7.60	17.0	224.
OSEZ- 519	4	12/19/79	1537.	7.67	24.0	225.
OSEZ- 525	4	1/ 2/80	1532.	7.80	16.5	217.
OSEZ- 531	4	1/16/80	1543.	7.56	25.0	186.
OSEZ- 537	4	1/30/80	1458.	7.54	14.0	183.
OSEZ- 543	4	2/14/80	1410.	7.48	13.0	187.
OSEZ- 549	4	3/ 5/80	1347.	7.48	17.0	169.
OSEZ- 550	4	3/ 5/80	1359.	7.51	17.5	168.
OSEZ- 551	4	3/ 5/80	1362.	7.48	17.5	168.
OSEZ- 557	4	3/19/80	1432.	7.43	24.0	171.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 197	4	4/ 3/79	0.124	0.049	0.075	17.11	17.23
OSEZ- 199	4	4/10/79	0.269	0.139	0.130	14.63	14.90
OSEZ- 209	4	4/17/79	0.034	0.007	0.027	37.93	37.96
OSEZ- 214	4	4/24/79	0.013		0.016	27.89	27.90
OSEZ- 220	4	5/ 1/79	< 0.008	< 0.004	< 0.008	21.96	21.97
OSEZ- 226	4	5/ 8/79	0.015		0.016	33.90	33.91
OSEZ- 232	4	5/15/79	< 0.008	< 0.004	< 0.008	25.06	25.07
OSEZ- 238	4	5/22/79	0.014	< 0.004	0.011	45.22	45.23
OSEZ- 305	4	5/29/79	0.013	< 0.004	0.013	30.53	30.54
OSEZ- 311	4	6/ 5/79	0.011	< 0.004	0.011	23.08	23.09
OSEZ- 317	4	6/12/79	0.009		0.011	28.27	28.28
OSEZ- 323	4	6/19/79	0.012	< 0.004	0.011	43.68	43.69
OSEZ- 346	4	6/26/79	0.009		0.010	32.25	32.26
OSEZ- 352	4	7/ 3/79	0.011	< 0.004	0.011	45.00	45.01
OSEZ- 358	4	7/10/79	0.008		0.011	33.75	33.76
OSEZ- 377	4	7/17/79	0.009		0.010	27.32	27.33
OSEZ- 383	4	7/23/79	0.011		0.012	49.78	49.79
OSEZ- 389	4	7/31/79	0.012		0.014	37.85	37.86
OSEZ- 417	4	8/ 8/79	0.010		0.012	29.72	29.73
OSEZ- 423	4	8/14/79	0.007		0.010	27.87	27.88
OSEZ- 429	4	8/22/79	0.010		0.012	31.63	31.64
OSEZ- 435	4	8/29/79	0.008		0.010	39.10	39.11
OSEZ- 441	4	9/ 6/79	0.008		0.011	31.08	31.09
OSEZ- 447	4	9/11/79	0.009		0.012	39.28	39.29
OSEZ- 453	4	9/18/79	0.019		0.027	32.44	32.46
OSEZ- 459	4	9/26/79	0.026		0.031	27.27	27.30
OSEZ- 465	4	10/ 9/79	0.013		0.014	29.81	29.82
OSEZ- 471	4	10/23/79				33.78	
OSEZ- 501	4	11/ 7/79	0.035	0.008	0.027	26.10	26.14
OSEZ- 507	4	11/21/79	0.107	0.033	0.074	39.64	39.75
OSEZ- 513	4	12/ 5/79	0.265	0.112	0.153	32.14	32.40
OSEZ- 519	4	12/19/79	0.048	0.023	0.025	35.03	35.08
OSEZ- 525	4	1/ 2/80	4.415	3.540	0.875	20.37	24.79
OSEZ- 531	4	1/16/80	0.151	0.101	0.050	29.50	29.65
OSEZ- 537	4	1/30/80	0.025	0.008	0.017	18.63	18.66
OSEZ- 543	4	2/14/80	1.049	0.306	0.743	17.35	18.40
OSEZ- 549	4	3/ 5/80	0.345	0.127	0.218	17.20	17.55
OSEZ- 550	4	3/ 5/80	0.453	0.186	0.267	16.38	16.83
OSEZ- 551	4	3/ 5/80	0.100	0.040	0.060	16.16	16.26
OSEZ- 557	4	3/19/80	0.167	0.035	0.132	7.62	7.79

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
SEZ- 197	4	4/ 3/79	37.79	20.68	37.91	3.526	8.513
SEZ- 199	4	4/10/79	26.21	11.58	26.48	7.159	13.973
SEZ- 209	4	4/17/79	9.67		9.65	0.765	20.140
SEZ- 214	4	4/24/79	52.66	24.77	52.67	9.110	18.567
SEZ- 220	4	5/ 1/79	39.73	17.77	39.74	6.361	14.586
SEZ- 226	4	5/ 8/79	51.93	17.43	51.35	8.129	17.532
SEZ- 232	4	5/15/79	38.61	13.55	38.62	8.779	14.501
SEZ- 238	4	5/22/79	110.65	65.43	110.66	9.041	14.786
SEZ- 305	4	5/29/79	48.40	17.87	48.41	9.019	13.620
SEZ- 311	4	6/ 5/79	40.44	17.36	40.45	8.076	8.710
SEZ- 317	4	6/12/79	43.94	15.67	43.95	8.116	13.981
SEZ- 323	4	6/19/79	110.75	67.07	110.76	13.713	18.615
SEZ- 346	4	6/26/79	48.20	15.95	48.21	2.127	6.209
SEZ- 352	4	7/ 3/79	86.41	41.41	86.42	13.773	15.388
SEZ- 358	4	7/10/79	48.71	14.96	48.72	9.482	12.855
SEZ- 377	4	7/17/79	41.00	13.68	41.01	10.405	12.380
SEZ- 383	4	7/23/79	68.89	19.11	68.90	9.913	13.098
SEZ- 389	4	7/31/79	53.47	15.62	53.48	1.783	9.220
SEZ- 417	4	8/ 8/79	48.16	18.44	48.17	9.230	10.993
SEZ- 423	4	8/14/79	42.21	14.34	42.22	9.689	11.666
SEZ- 429	4	8/22/79	58.41	26.78	58.42	10.208	12.826
SEZ- 435	4	8/29/79	61.92	22.82	61.93	8.412	13.038
SEZ- 441	4	9/ 6/79	43.07	11.99	43.08	4.526	8.200
SEZ- 447	4	9/11/79	56.81	17.53	56.82	6.568	13.711
SEZ- 453	4	9/18/79	57.56	25.12	57.58	2.838	7.199
SEZ- 459	4	9/26/79	44.58	17.31	44.61	3.828	7.480
SEZ- 465	4	10/ 9/79	34.49	4.68	34.50	7.045	8.947
SEZ- 471	4	10/23/79	51.43	17.65		1.111	8.341
SEZ- 501	4	11/ 7/79	87.76	61.66	87.80	3.894	8.961
SEZ- 507	4	11/21/79	61.79	22.15	61.90	2.172	15.042
SEZ- 513	4	12/ 5/79	45.93	13.79	46.19		6.882
SEZ- 519	4	12/19/79	51.80	16.77	51.85	6.777	12.418
SEZ- 525	4	1/ 2/80	7.38		11.80	3.983	0.689
SEZ- 531	4	1/16/80	9.16		9.31	5.461	11.062
SEZ- 537	4	1/30/80	35.39	16.76	35.42	5.512	8.403
SEZ- 543	4	2/14/80	25.78	8.43	26.83	7.788	7.216
SEZ- 549	4	3/ 5/80	25.91	8.71	26.26	3.372	6.479
SEZ- 550	4	3/ 5/80	26.45	10.07	26.90	3.228	6.629
SEZ- 551	4	3/ 5/80	26.45	10.29	26.55	3.249	6.607
SEZ- 557	4	3/19/80	28.46	20.84	28.63	4.763	9.189

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER	RANGE OF VALUES		UNITS
DATE	4/ 1/79	- 4/ 1/80	MO/DA/YR
STATION = 4		CODE	

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 559	4	3/21/80				
OSEZ- 560	4	3/22/80				
OSEZ- 573	4	3/25/80				

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 559	4	3/21/80				5.27	
OSEZ- 560	4	3/22/80				14.21	
OSEZ- 573	4	3/25/80				10.94	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
SEZ- 559	4	3/21/80					
SEZ- 560	4	3/22/80					
SEZ- 573	4	3/25/80					

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 4 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			40	40	40	40
AVERAGE			1591.	7.52	28.4	243.
ST. DEV.			157.	0.10	15.1	92.
MIN. VAL.			1290.	7.34	13.0	168.
MAX. VAL.			1950.	7.80	74.0	762.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			39	22	39	43	39
AVERAGE			0.202	0.216	0.082	27.99	29.42
ST. DEV.			0.718	0.747	0.182	10.43	9.40
MIN. VAL.			0.007	0.004	0.008	5.27	7.79
MAX. VAL.			4.415	3.540	0.875	49.78	49.79

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			40	37	39	39	40
AVERAGE			47.19	20.97	47.29	6.485	11.216
ST. DEV.			22.80	14.60	22.84	3.306	4.115
MIN. VAL.			7.38	4.68	9.31	0.765	0.689
MAX. VAL.			110.75	67.07	110.76	13.773	20.140

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
SEZ- 193	5	4/ 3/79	600.	8.38	63.0	245.
SEZ- 201	5	4/10/79	555.	7.86	69.0	369.
SEZ- 206	5	4/17/79	1460.	8.33	51.0	247.
SEZ- 211	5	4/24/79	1015.	7.37	32.0	455.
SEZ- 216	5	5/ 1/79	770.	7.53	42.0	171.
SEZ- 222	5	5/ 8/79	1425.	7.85	22.0	227.
SEZ- 228	5	5/15/79	545.	7.15	8.4	298.
SEZ- 234	5	5/22/79	845.	7.55	14.5	133.
SEZ- 301	5	5/29/79	164.	6.86	4.7	222.
SEZ- 307	5	6/ 5/79	166.	6.71	2.9	262.
SEZ- 314	5	6/12/79	270.	7.34	3.8	236.
SEZ- 319	5	6/19/79	1555.	7.91	24.5	269.
SEZ- 342	5	6/26/79	963.	7.89	28.0	236.
SEZ- 348	5	7/ 3/79	1480.	7.80	23.0	247.
SEZ- 354	5	7/10/79	331.	6.99	25.0	326.
SEZ- 373	5	7/17/79	215.	6.93	4.9	266.
SEZ- 379	5	7/23/79	1260.	7.75	16.0	284.
SEZ- 385	5	7/31/79	658.	7.17	28.0	118.
SEZ- 413	5	8/ 8/79	550.	7.28	15.5	119.
SEZ- 419	5	8/14/79	484.	6.97	9.0	145.
SEZ- 425	5	8/22/79	560.	6.87	3.8	99.
SEZ- 431	5	8/29/79	1558.	7.79	20.5	225.
SEZ- 437	5	9/ 6/79	261.	6.83	4.2	278.
SEZ- 443	5	9/11/79	565.	7.27	6.2	311.
SEZ- 449	5	9/18/79	138.	6.47	1.2	300.
SEZ- 455	5	9/26/79	140.	6.40	1.4	305.
SEZ- 461	5	10/ 9/79	120.	6.66	2.3	252.
SEZ- 467	5	10/23/79	206.	6.83	3.2	237.
SEZ- 497	5	11/ 7/79	328.	7.04	13.0	171.
SEZ- 503	5	11/21/79	1272.	7.60	19.0	244.
SEZ- 509	5	12/ 5/79	408.	7.01	5.3	171.
SEZ- 515	5	12/19/79	484.	7.36	5.5	134.
SEZ- 521	5	1/ 2/80	466.	7.15	4.8	99.
SEZ- 527	5	1/16/80	1220.	7.88	21.0	175.
SEZ- 533	5	1/30/80	582.	7.24	4.5	167.
SEZ- 539	5	2/14/80	1065.	7.56	5.2	162.
SEZ- 545	5	3/ 5/80	385.	6.93	3.5	189.
SEZ- 553	5	3/19/80	761.	6.99	12.5	250.
SEZ- 561	5	3/21/80				
SEZ- 562	5	3/21/80				

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
SEZ- 193	5	4/ 3/79	0.008	< 0.004	< 0.008	< 0.04	0.05
SEZ- 201	5	4/10/79	0.019		0.023	0.26	0.28
SEZ- 206	5	4/17/79	0.026		0.027	11.00	11.03
SEZ- 211	5	4/24/79	0.010	< 0.004	< 0.008	0.22	0.23
SEZ- 216	5	5/ 1/79	0.026	0.013	0.013	1.24	1.27
SEZ- 222	5	5/ 8/79	0.020	0.007	0.013	20.08	20.10
SEZ- 228	5	5/15/79	0.188	0.174	0.014	2.25	2.44
SEZ- 234	5	5/22/79	0.091	0.078	0.013	4.16	4.25
SEZ- 301	5	5/29/79	0.163	0.138	0.025	1.04	1.20
SEZ- 307	5	6/ 5/79	0.014	0.006	0.008	0.46	0.47
SEZ- 314	5	6/12/79	< 0.008	< 0.004	0.008	0.03	0.04
SEZ- 319	5	6/19/79	< 0.008	< 0.004	0.012	32.07	32.08
SEZ- 342	5	6/26/79	0.015		0.019	1.70	1.72
SEZ- 348	5	7/ 3/79	0.073		0.078	29.05	29.12
SEZ- 354	5	7/10/79	0.015		0.018	4.43	4.45
SEZ- 373	5	7/17/79	0.015	< 0.004	0.012	2.47	2.49
SEZ- 379	5	7/23/79	0.013	< 0.004	0.013	21.95	21.96
SEZ- 385	5	7/31/79	0.007		0.009	0.50	0.51
SEZ- 413	5	8/ 8/79	0.005		0.006	0.40	0.41
SEZ- 419	5	8/14/79	0.012	< 0.004	0.010	0.38	0.39
SEZ- 425	5	8/22/79	< 0.004	< 0.004	< 0.004	0.16	0.16
SEZ- 431	5	8/29/79	0.039		0.045	25.05	25.09
SEZ- 437	5	9/ 6/79	0.008		0.011	1.90	1.91
SEZ- 443	5	9/11/79	0.007		0.010	14.78	14.79
SEZ- 449	5	9/18/79	< 0.004	< 0.004	0.009	0.52	0.52
SEZ- 455	5	9/26/79	0.004		0.011	0.42	0.42
SEZ- 461	5	10/ 9/79	0.009	< 0.004	0.008	0.42	0.43
SEZ- 467	5	10/23/79	0.020	0.005	0.015	0.57	0.59
SEZ- 497	5	11/ 7/79	0.009	< 0.004	0.007	0.98	0.99
SEZ- 503	5	11/21/79	0.119	0.025	0.094	29.47	29.59
SEZ- 509	5	12/ 5/79	0.476	0.442	0.034	0.45	0.93
SEZ- 515	5	12/19/79	0.111	0.080	0.031	1.71	1.82
SEZ- 521	5	1/ 2/80	0.043	0.034	0.009	0.07	0.11
SEZ- 527	5	1/16/80	0.146	0.058	0.088	20.64	20.79
SEZ- 533	5	1/30/80	0.267	0.229	0.038	1.34	1.61
SEZ- 539	5	2/14/80	2.117	1.845	0.272	5.77	7.89
SEZ- 545	5	3/ 5/80	0.098	0.076	0.022	0.26	0.36
SEZ- 553	5	3/19/80	< 0.004	< 0.004	< 0.004	0.95	0.95
SEZ- 561	5	3/21/80				0.57	
SEZ- 562	5	3/21/80				0.57	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
SEZ- 193	5	4/ 3/79	21.30	21.26	21.31	6.594	15.998
SEZ- 201	5	4/10/79	21.42	21.16	21.44	1.050	27.105
SEZ- 206	5	4/17/79	38.05	27.05	38.08	2.390	8.385
SEZ- 211	5	4/24/79	14.98	14.76	14.99	3.202	5.438
SEZ- 216	5	5/ 1/79	12.22	10.98	12.25	2.713	5.565
SEZ- 222	5	5/ 8/79	35.24	15.16	35.26	0.444	8.641
SEZ- 228	5	5/15/79	7.66	5.41	7.85	5.911	6.421
SEZ- 234	5	5/22/79	8.48	4.32	8.57	0.335	1.438
SEZ- 301	5	5/29/79	3.69	2.65	3.85	1.867	1.910
SEZ- 307	5	6/ 5/79	2.46	2.00	2.47	0.646	0.818
SEZ- 314	5	6/12/79	2.96	2.93	2.97	0.838	1.249
SEZ- 319	5	6/19/79	94.53	62.46	94.54	0.940	15.176
SEZ- 342	5	6/26/79	21.26	19.56	21.28	7.317	18.479
SEZ- 348	5	7/ 3/79	48.92	19.87	48.99	9.526	16.375
SEZ- 354	5	7/10/79	11.66	7.23	11.67	3.982	5.264
SEZ- 373	5	7/17/79	4.40	1.93	4.42	1.780	2.663
SEZ- 379	5	7/23/79	42.85	20.90	42.86	4.766	10.061
SEZ- 385	5	7/31/79	12.27	11.77	12.28	8.159	10.018
SEZ- 413	5	8/ 8/79	122.02	121.62	122.03	6.845	8.466
SEZ- 419	5	8/14/79	3.43	3.05	3.44	6.392	7.679
SEZ- 425	5	8/22/79	3.03	2.87	3.03	3.240	3.833
SEZ- 431	5	8/29/79	52.69	27.64	52.73	6.928	20.526
SEZ- 437	5	9/ 6/79	5.40	3.50	5.41	2.714	3.396
SEZ- 443	5	9/11/79	19.60	4.82	19.61	2.042	6.936
SEZ- 449	5	9/18/79	2.97	2.45	2.97	0.861	1.065
SEZ- 455	5	9/26/79	2.68	2.26	2.68	0.910	1.072
SEZ- 461	5	10/ 9/79	2.04	1.62	2.05	0.232	0.425
SEZ- 467	5	10/23/79	2.84	2.27	2.86	0.566	0.850
SEZ- 497	5	11/ 7/79	4.25	3.27	4.26	1.186	2.596
SEZ- 503	5	11/21/79	46.96	17.49	47.08	4.548	10.791
SEZ- 509	5	12/ 5/79	4.32	3.87	4.80		7.804
SEZ- 515	5	12/19/79	3.80	2.09	3.91	1.951	2.360
SEZ- 521	5	1/ 2/80	2.30	2.23	2.34	1.167	0.345
SEZ- 527	5	1/16/80	29.29	8.65	29.44	6.635	9.567
SEZ- 533	5	1/30/80	6.03	4.69	6.30	5.932	6.522
SEZ- 539	5	2/14/80	9.96	4.19	12.08	4.677	5.112
SEZ- 545	5	3/ 5/80	2.38	2.12	2.48	1.753	2.032
SEZ- 553	5	3/19/80	5.01	4.06	5.01	3.388	5.586
SEZ- 561	5	3/21/80					
SEZ- 562	5	3/21/80					

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 563	5	3/21/80				
OSEZ- 564	5	3/22/80				
OSEZ- 565	5	3/22/80				
OSEZ- 566	5	3/22/80				
OSEZ- 567	5	3/22/80				
OSEZ- 568	5	3/22/80				
OSEZ- 569	5	3/22/80				
OSEZ- 570	5	3/22/80				
OSEZ- 571	5	3/23/80				
OSEZ- 572	5	3/23/80				
OSEZ- 574	5	3/25/80				
OSEZ- 575	5	3/25/80				
OSEZ- 576	5	3/25/80				
OSEZ- 577	5	3/25/80				
OSEZ- 578	5	3/25/80				
OSEZ- 579	5	3/25/80				
OSEZ- 580	5	3/25/80				
OSEZ- 581	5	3/25/80				
OSEZ- 582	5	3/26/80				
OSEZ- 583	5	3/26/80				
OSEZ- 584	5	3/26/80				
OSEZ- 585	5	3/26/80				
OSEZ- 586	5	3/26/80				
OSEZ- 587	5	3/26/80				
OSEZ- 588	5	3/26/80				
OSEZ- 589	5	3/26/80				
OSEZ- 590	5	3/26/80				
OSEZ- 591	5	3/26/80				
OSEZ- 592	5	3/26/80				
OSEZ- 593	5	3/26/80				
OSEZ- 594	5	3/27/80				
OSEZ- 595	5	3/27/80				
OSEZ- 596	5	3/27/80				
OSEZ- 597	5	3/27/80				
OSEZ- 598	5	3/27/80				
OSEZ- 599	5	3/27/80				
OSEZ- 600	5	3/27/80				
OSEZ- 601	5	3/27/80				
OSEZ- 602	5	3/27/80				
OSEZ- 603	5	3/28/80				

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION # 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
SEZ- 563	5	3/21/80				0.13	
SEZ- 564	5	3/22/80				0.23	
SEZ- 565	5	3/22/80				0.16	
SEZ- 566	5	3/22/80				0.25	
SEZ- 567	5	3/22/80				0.24	
SEZ- 568	5	3/22/80				0.26	
SEZ- 569	5	3/22/80				0.12	
SEZ- 570	5	3/22/80				0.10	
SEZ- 571	5	3/23/80				0.08	
SEZ- 572	5	3/23/80				0.14	
SEZ- 574	5	3/25/80				0.19	
SEZ- 575	5	3/25/80				0.01	
SEZ- 576	5	3/25/80				0.01	
SEZ- 577	5	3/25/80				0.05	
SEZ- 578	5	3/25/80				0.10	
SEZ- 579	5	3/25/80				0.08	
SEZ- 580	5	3/25/80				0.04	
SEZ- 581	5	3/25/80				0.03	
SEZ- 582	5	3/26/80				0.74	
SEZ- 583	5	3/26/80				0.77	
SEZ- 584	5	3/26/80				1.84	
SEZ- 585	5	3/26/80				3.86	
SEZ- 586	5	3/26/80				5.20	
SEZ- 587	5	3/26/80				3.36	
SEZ- 588	5	3/26/80				3.59	
SEZ- 589	5	3/26/80				3.82	
SEZ- 590	5	3/26/80				3.75	
SEZ- 591	5	3/26/80				4.06	
SEZ- 592	5	3/26/80				4.24	
SEZ- 593	5	3/26/80				4.29	
SEZ- 594	5	3/27/80				4.27	
SEZ- 595	5	3/27/80				4.20	
SEZ- 596	5	3/27/80				4.41	
SEZ- 597	5	3/27/80				4.78	
SEZ- 598	5	3/27/80				5.45	
SEZ- 599	5	3/27/80				5.08	
SEZ- 600	5	3/27/80				5.22	
SEZ- 601	5	3/27/80				6.19	
SEZ- 602	5	3/27/80				5.84	
SEZ- 603	5	3/28/80				6.00	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OSEZ- 563	5	3/21/80					
OSEZ- 564	5	3/22/80					
OSEZ- 565	5	3/22/80					
OSEZ- 566	5	3/22/80					
OSEZ- 567	5	3/22/80					
OSEZ- 568	5	3/22/80					
OSEZ- 569	5	3/22/80					
OSEZ- 570	5	3/22/80					
OSEZ- 571	5	3/23/80					
OSEZ- 572	5	3/23/80					
OSEZ- 574	5	3/25/80					
OSEZ- 575	5	3/25/80					
OSEZ- 576	5	3/25/80					
OSEZ- 577	5	3/25/80					
OSEZ- 578	5	3/25/80					
OSEZ- 579	5	3/25/80					
OSEZ- 580	5	3/25/80					
OSEZ- 581	5	3/25/80					
OSEZ- 582	5	3/26/80					
OSEZ- 583	5	3/26/80					
OSEZ- 584	5	3/26/80					
OSEZ- 585	5	3/26/80					
OSEZ- 586	5	3/26/80					
OSEZ- 587	5	3/26/80					
OSEZ- 588	5	3/26/80					
OSEZ- 589	5	3/26/80					
OSEZ- 590	5	3/26/80					
OSEZ- 591	5	3/26/80					
OSEZ- 592	5	3/26/80					
OSEZ- 593	5	3/26/80					
OSEZ- 594	5	3/27/80					
OSEZ- 595	5	3/27/80					
OSEZ- 596	5	3/27/80					
OSEZ- 597	5	3/27/80					
OSEZ- 598	5	3/27/80					
OSEZ- 599	5	3/27/80					
OSEZ- 600	5	3/27/80					
OSEZ- 601	5	3/27/80					
OSEZ- 602	5	3/27/80					
OSEZ- 603	5	3/28/80					

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 604	5	3/28/80				
OSEZ- 605	5	3/29/80				
OSEZ- 606	5	3/29/80				
OSEZ- 607	5	3/29/80				
OSEZ- 608	5	3/29/80				
OSEZ- 609	5	3/30/80				
OSEZ- 610	5	3/30/80				
OSEZ- 611	5	3/30/80				
OSEZ- 612	5	3/30/80				
OSEZ- 613	5	3/31/80				
OSEZ- 614	5	3/31/80				
OSEZ- 615	5	3/31/80				
OSEZ- 616	5	3/31/80				
OSEZ- 623	5	3/31/80	1205.		21.0	
OSEZ- 624	5	3/31/80	1103.		17.0	
OSEZ- 625	5	4/ 1/80	1130.		18.5	
OSEZ- 626	5	4/ 1/80	1173.		18.5	
OSEZ- 627	5	4/ 1/80	1208.		20.2	
OSEZ- 628	5	4/ 1/80	1117.		19.7	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

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PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 604	5	3/28/80				4.94	
OSEZ- 605	5	3/29/80				2.21	
OSEZ- 606	5	3/29/80				3.25	
OSEZ- 607	5	3/29/80				2.97	
OSEZ- 608	5	3/29/80				2.76	
OSEZ- 609	5	3/30/80				0.51	
OSEZ- 610	5	3/30/80				2.28	
OSEZ- 611	5	3/30/80				1.95	
OSEZ- 612	5	3/30/80				1.40	
OSEZ- 613	5	3/31/80				1.70	
OSEZ- 614	5	3/31/80				2.17	
OSEZ- 615	5	3/31/80				2.04	
OSEZ- 616	5	3/31/80				2.69	
OSEZ- 623	5	3/31/80					
OSEZ- 624	5	3/31/80				0.82	
OSEZ- 625	5	4/ 1/80				1.18	
OSEZ- 626	5	4/ 1/80				1.36	
OSEZ- 627	5	4/ 1/80				1.51	
OSEZ- 628	5	4/ 1/80				1.45	

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
OSEZ- 604	5	3/28/80					
OSEZ- 605	5	3/29/80					
OSEZ- 606	5	3/29/80					
OSEZ- 607	5	3/29/80					
OSEZ- 608	5	3/29/80					
OSEZ- 609	5	3/30/80					
OSEZ- 610	5	3/30/80					
OSEZ- 611	5	3/30/80					
OSEZ- 612	5	3/30/80					
OSEZ- 613	5	3/31/80					
OSEZ- 614	5	3/31/80					
OSEZ- 615	5	3/31/80					
OSEZ- 616	5	3/31/80					
OSEZ- 623	5	3/31/80					
OSEZ- 624	5	3/31/80					
OSEZ- 625	5	4/ 1/80					
OSEZ- 626	5	4/ 1/80					
OSEZ- 627	5	4/ 1/80					
OSEZ- 628	5	4/ 1/80					

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 5 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			44	38	44	38
AVERAGE			745.	7.30	16.8	227.
ST. DEV.			450.	0.49	15.6	77.
MIN. VAL.			120.	6.40	1.2	99.
MAX. VAL.			1558.	8.38	69.0	455.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
NUM. VALS.			38	27	38	98	38
AVERAGE			0.111	0.121	0.028	3.78	6.41
ST. DEV.			0.347	0.358	0.046	6.61	9.88
MIN. VAL.			0.004	0.004	0.004	0.01	0.04
MAX. VAL.			2.117	1.845	0.272	32.07	32.08

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/L
NUM. VALS.			38	38	38	37	38
AVERAGE			19.35	13.06	19.46	3.363	7.052
ST. DEV.			26.12	21.56	26.09	2.611	6.253
MIN. VAL.			2.04	1.62	2.05	0.232	0.345
MAX. VAL.			122.02	121.62	122.03	9.526	27.105

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINT

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 6 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
OSEZ- 194	6	4/ 3/79	1000.	7.47	31.0	125.
OSEZ- 202	6	4/10/79	1023.	7.12	32.0	151.
OSEZ- 205	6	4/17/79	1130.	7.32	19.0	187.
OSEZ- 217	6	5/ 1/79	970.	7.03	21.5	159.
OSEZ- 223	6	5/ 8/79	840.	6.92	18.0	165.
OSEZ- 229	6	5/15/79	880.	7.23	30.5	416.
OSEZ- 235	6	5/22/79	850.	7.00	16.5	148.
OSEZ- 302	6	5/29/79	478.	7.26	18.0	295.
OSEZ- 308	6	6/ 5/79	835.	7.08	18.0	297.
OSEZ- 313	6	6/12/79	840.	7.03	12.0	164.
OSEZ- 320	6	6/19/79	820.	6.84	16.0	184.
OSEZ- 343	6	6/26/79	848.	7.02	22.5	235.
OSEZ- 349	6	7/ 3/79	910.	6.96	15.5	222.
OSEZ- 355	6	7/10/79	1462.	7.42	550.0	643.
OSEZ- 374	6	7/17/79	1015.	7.24	58.0	432.
OSEZ- 380	6	7/23/79	900.	7.12	41.0	124.
OSEZ- 386	6	7/31/79	865.	7.03	42.0	114.
OSEZ- 414	6	8/ 8/79	995.	7.21	8.0	139.
OSEZ- 420	6	8/14/79	1187.	7.07	42.0	222.
OSEZ- 426	6	8/22/79	942.	6.94	18.0	161.
OSEZ- 432	6	8/29/79	908.	6.96	7.3	141.
OSEZ- 438	6	9/ 6/79	637.	7.04	27.0	316.
OSEZ- 444	6	9/11/79	660.	7.14	8.2	339.
OSEZ- 450	6	9/18/79	810.	7.17	8.3	323.
OSEZ- 456	6	9/26/79	863.	7.22	21.5	340.
OSEZ- 462	6	10/ 9/79	812.	7.28	25.0	100.
OSEZ- 468	6	10/23/79	857.	7.16	7.4	85.
OSEZ- 498	6	11/ 7/79	827.	7.13	12.0	137.
OSEZ- 504	6	11/21/79	903.	7.13	17.0	128.
OSEZ- 510	6	12/ 5/79	855.	7.01	7.8	120.
OSEZ- 516	6	12/19/79	890.	7.24	13.0	80.
OSEZ- 522	6	1/ 2/80	919.	7.21	20.5	63.
OSEZ- 528	6	1/16/80	830.	7.36	5.5	63.
OSEZ- 534	6	1/30/80	925.	7.32	5.5	115.
OSEZ- 540	6	2/14/80	945.	7.49	5.5	89.
OSEZ- 546	6	3/ 5/80	1033.	7.52	13.0	183.
OSEZ- 554	6	3/19/80	1009.	7.42	5.5	83.

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTING

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 6 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH4 MG N/L
OSEZ- 194	6	4/ 3/79	0.009	< 0.004	< 0.008	4.64	4.65
OSEZ- 202	6	4/10/79	< 0.008	< 0.004	< 0.008	1.69	1.70
OSEZ- 205	6	4/17/79	< 0.008	< 0.004	< 0.008	0.12	0.13
OSEZ- 217	6	5/ 1/79	< 0.008	< 0.004	< 0.008	0.35	0.36
OSEZ- 223	6	5/ 8/79	< 0.008	< 0.004	< 0.008	1.61	1.62
OSEZ- 229	6	5/15/79	< 0.008	< 0.004	< 0.008	9.28	9.29
OSEZ- 235	6	5/22/79	< 0.008	< 0.004	< 0.008	6.22	6.23
OSEZ- 302	6	5/29/79	0.137	0.016	0.121	1.82	1.96
OSEZ- 308	6	6/ 5/79	< 0.008	< 0.004	0.008	4.83	4.84
OSEZ- 313	6	6/12/79	< 0.008	< 0.004	< 0.008	4.57	4.58
OSEZ- 320	6	6/19/79	< 0.008	< 0.004	< 0.008	4.25	4.26
OSEZ- 343	6	6/26/79	< 0.008	< 0.004	< 0.008	4.58	4.59
OSEZ- 349	6	7/ 3/79	< 0.008	< 0.004	< 0.008	6.34	6.35
OSEZ- 355	6	7/10/79	0.339	0.248	0.091	37.93	38.27
OSEZ- 374	6	7/17/79	0.081	0.021	0.060	18.76	18.84
OSEZ- 380	6	7/23/79	0.020	0.009	0.011	21.89	21.91
OSEZ- 386	6	7/31/79	0.009	< 0.004	0.007	8.66	8.67
OSEZ- 414	6	8/ 8/79	< 0.004	< 0.004	0.004	2.60	2.60
OSEZ- 420	6	8/14/79	0.014	< 0.004	0.010	8.32	8.33
OSEZ- 426	6	8/22/79	< 0.004	< 0.004	< 0.004	4.10	4.10
OSEZ- 432	6	8/29/79	0.004		0.005	2.03	2.03
OSEZ- 438	6	9/ 6/79	0.012		0.013	5.68	5.69
OSEZ- 444	6	9/11/79	0.011		0.013	4.80	4.81
OSEZ- 450	6	9/18/79	0.006		0.012	5.98	5.99
OSEZ- 456	6	9/26/79	0.009		0.014	8.58	8.59
OSEZ- 462	6	10/ 9/79	< 0.004	< 0.004	< 0.004	5.04	5.04
OSEZ- 468	6	10/23/79	< 0.004	< 0.004	< 0.004	1.95	1.95
OSEZ- 498	6	11/ 7/79	< 0.004	< 0.004	< 0.004	1.39	1.39
OSEZ- 504	6	11/21/79	0.005	< 0.004	< 0.004	0.87	0.88
OSEZ- 510	6	12/ 5/79	0.004	< 0.004	< 0.004	0.46	0.46
OSEZ- 516	6	12/19/79	< 0.004	< 0.004	< 0.004	1.69	1.69
OSEZ- 522	6	1/ 2/80	< 0.004	< 0.004	0.004	0.89	0.89
OSEZ- 528	6	1/16/80	< 0.004	< 0.004	< 0.004	0.29	0.29
OSEZ- 534	6	1/30/80	0.005	< 0.004	0.005	0.44	0.45
OSEZ- 540	6	2/14/80	0.007	< 0.004	0.005	0.15	0.16
OSEZ- 546	6	3/ 5/80	0.030	0.009	0.021	1.05	1.08
OSEZ- 554	6	3/19/80	< 0.004	< 0.004	< 0.004	0.02	0.02

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 6 CODE

SAMPLE NUMBER	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/
OSEZ- 194	6	4/ 3/79	24.60	19.96	24.61	2.173	19.12
OSEZ- 202	6	4/10/79	16.04	14.35	16.05	2.435	4.66
OSEZ- 205	6	4/17/79	10.19	10.07	10.20	1.322	3.05
OSEZ- 217	6	5/ 1/79	8.04	7.69	8.05	3.175	4.05
OSEZ- 223	6	5/ 8/79	8.17	6.56	8.18	3.412	4.14
OSEZ- 229	6	5/15/79	24.62	15.34	24.63	14.925	17.03
OSEZ- 235	6	5/22/79	16.30	10.08	16.31	3.262	3.19
OSEZ- 302	6	5/29/79	11.65	9.83	11.79	8.173	9.00
OSEZ- 308	6	6/ 5/79	10.81	5.98	10.82	8.671	8.25
OSEZ- 313	6	6/12/79	9.72	5.15	9.73	4.346	4.96
OSEZ- 320	6	6/19/79	9.35	5.10	9.36	4.019	4.64
OSEZ- 343	6	6/26/79	14.99	10.41	15.00	4.633	10.42
OSEZ- 349	6	7/ 3/79	19.06	12.72	19.07	5.684	5.85
OSEZ- 355	6	7/10/79	98.85	60.92	99.19	16.337	29.86
OSEZ- 374	6	7/17/79	39.90	21.14	39.98	16.780	19.46
OSEZ- 380	6	7/23/79	108.74	86.85	108.76	3.479	22.20
OSEZ- 386	6	7/31/79	37.50	28.84	37.51	2.174	4.89
OSEZ- 414	6	8/ 8/79	8.78	6.18	8.78	3.363	3.96
OSEZ- 420	6	8/14/79	30.05	21.73	30.06	4.586	9.93
OSEZ- 426	6	8/22/79	20.84	16.74	20.84	3.481	4.50
OSEZ- 432	6	8/29/79	6.90	4.87	6.90	2.256	3.05
OSEZ- 438	6	9/ 6/79	15.34	9.66	15.35	8.783	10.04
OSEZ- 444	6	9/11/79	11.62	6.82	11.63	7.494	8.64
OSEZ- 450	6	9/18/79	17.81	11.83	17.82	9.012	10.33
OSEZ- 456	6	9/26/79	17.19	8.61	17.20	9.093	10.55
OSEZ- 462	6	10/ 9/79	10.38	5.34	10.38	2.996	4.44
OSEZ- 468	6	10/23/79	4.30	2.35	4.30	0.860	1.05
OSEZ- 498	6	11/ 7/79	4.77	3.38	4.77	2.343	3.13
OSEZ- 504	6	11/21/79	6.31	5.44	6.32	1.858	2.63
OSEZ- 510	6	12/ 5/79	3.51	3.05	3.51		2.69
OSEZ- 516	6	12/19/79	4.43	2.74	4.43	1.472	2.29
OSEZ- 522	6	1/ 2/80	5.17	4.28	5.17	0.991	0.89
OSEZ- 528	6	1/16/80	2.58	2.29	2.58	1.126	1.84
OSEZ- 534	6	1/30/80	3.38	2.94	3.39	2.166	2.73
OSEZ- 540	6	2/14/80	3.66	3.51	3.67	1.165	1.61
OSEZ- 546	6	3/ 5/80	6.56	5.51	6.59	3.956	4.82
OSEZ- 554	6	3/19/80	8.09	8.07	8.09	0.862	2.02

UPLANDS DEMONSTRATION PROJECTS (FIRST YEAR DATA)

PROJECT OSEZ DATE OF PRINTI

PARAMETER RANGE OF VALUES UNITS

DATE 4/ 1/79 - 4/ 1/80 MO/DA/YR

STATION = 6 CODE

	STATION CODE	DATE MO/DA/YR	LAB COND UMHOS/CM	LAB PH	TURB JTU	COLOR UNITS
NUM. VALS.			37	37	37	37
AVERAGE			902.	7.17	33.5	197.
ST. DEV.			157.	0.17	88.1	123.
MIN. VAL.			478.	6.84	5.5	63.
MAX. VAL.			1462.	7.52	550.0	643.

	STATION CODE	DATE MO/DA/YR	NOX MG N/L	NO3 MG N/L	NO2 MG N/L	NH4 MG N/L	NOX+NH MG N/L
NUM. VALS.			37	32	37	37	37
AVERAGE			0.022	0.013	0.014	5.24	5.2
ST. DEV.			0.059	0.043	0.024	7.28	7.3
MIN. VAL.			0.004	0.004	0.004	0.02	0.0
MAX. VAL.			0.339	0.248	0.121	37.93	38.2

	STATION CODE	DATE MO/DA/YR	TKN MG N/L	TKN-NH4 MG N/L	TOTAL N MG N/L	OPO4 MG P/L	TPO4 MG P/
NUM. VALS.			37	37	37	36	37
AVERAGE			17.84	12.60	17.87	4.802	7.17
ST. DEV.			22.75	16.38	22.79	4.229	6.63
MIN. VAL.			2.58	2.29	2.58	0.860	0.09
MAX. VAL.			108.74	86.85	108.76	16.780	29.86

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 192	4/ 3/79	925.	1			2=SLIGHT OVERCAST	
OSEZ- 203	4/10/79	1523.	1			1=CLEAR	
OSEZ- 204	4/17/79	919.	1			1=CLEAR	
OSEZ- 210	4/24/79	900.	1			5=DRIZZLE	
OSEZ- 215	5/ 1/79	855.	1			5=DRIZZLE	
OSEZ- 221	5/ 8/79	914.	1			4=VERY OVERCAST	
OSEZ- 227	5/15/79	939.	1			2=SLIGHT OVERCAST	
OSEZ- 233	5/22/79	903.	1			1=CLEAR	
OSEZ- 300	5/29/79	922.	1			3=MEDIUM OVERCAST	
OSEZ- 306	6/ 5/79	902.	1			1=CLEAR	
OSEZ- 312	6/12/79	905.	1			2=SLIGHT OVERCAST	
OSEZ- 318	6/19/79	854.	1			1=CLEAR	
OSEZ- 332	6/26/79	922.	1			2=SLIGHT OVERCAST	
OSEZ- 333	6/26/79	922.	1			2=SLIGHT OVERCAST	
OSEZ- 334	6/26/79	922.	1			2=SLIGHT OVERCAST	
OSEZ- 335	6/26/79	922.	1			2=SLIGHT OVERCAST	
OSEZ- 336	6/26/79	922.	1			2=SLIGHT OVERCAST	
OSEZ- 337	6/26/79	936.	1			2=SLIGHT OVERCAST	
OSEZ- 338	6/26/79	940.	1			2=SLIGHT OVERCAST	
OSEZ- 339	6/26/79	944.	1			2=SLIGHT OVERCAST	
OSEZ- 340	6/26/79	947.	1			2=SLIGHT OVERCAST	
OSEZ- 341	6/26/79	951.	1			2=SLIGHT OVERCAST	
OSEZ- 347	7/ 3/79	848.	1			1=CLEAR	
OSEZ- 353	7/10/79	920.	1			1=CLEAR	
OSEZ- 372	7/17/79	902.	1			2=SLIGHT OVERCAST	
OSEZ- 378	7/23/79	858.	1			2=SLIGHT OVERCAST	
OSEZ- 384	7/31/79	903.	1			2=SLIGHT OVERCAST	
OSEZ- 412	8/ 8/79	900.	1			4=VERY OVERCAST	
OSEZ- 418	8/14/79	920.	1			1=CLEAR	
OSEZ- 424	8/22/79	854.	1			2=SLIGHT OVERCAST	
OSEZ- 430	8/29/79	903.	1			1=CLEAR	
OSEZ- 436	9/ 6/79	1038.	1			2=SLIGHT OVERCAST	
OSEZ- 442	9/11/79	842.	1			4=VERY OVERCAST	
OSEZ- 448	9/18/79	912.	1			1=CLEAR	
OSEZ- 454	9/26/79	1015.	1			3=MEDIUM OVERCAST	
OSEZ- 460	10/ 9/79	915.	1			1=CLEAR	
OSEZ- 466	10/23/79	858.	1			1=CLEAR	
OSEZ- 496	11/ 7/79	855.	1			1=CLEAR	
OSEZ- 502	11/21/79	1027.	1			4=VERY OVERCAST	
OSEZ- 508	12/ 5/79	844.	1			2=SLIGHT OVERCAST	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 514	12/19/79	858.	1			1=CLEAR	
OSEZ- 520	1/ 2/80	1420.	1			1=CLEAR	
OSEZ- 526	1/16/80	919.	1			2=SLIGHT OVERCAST	
OSEZ- 532	1/30/80	849.	1			1=CLEAR	
OSEZ- 538	2/14/80	900.	1			4=VERY OVERCAST	
OSEZ- 544	3/ 5/80	905.	1			4=VERY OVERCAST	
OSEZ- 552	3/19/80	857.	1			1=CLEAR	
OSEZ- 195	4/ 3/79	1045.	2			2=SLIGHT OVERCAST	
OSEZ- 200	4/10/79	1423.	2			1=CLEAR	
OSEZ- 207	4/17/79	1038.	2			1=CLEAR	
OSEZ- 212	4/24/79	1018.	2			5=DRIZZLE	
OSEZ- 218	5/ 1/79	1006.	2			5=DRIZZLE	
OSEZ- 224	5/ 8/79	1047.	2			4=VERY OVERCAST	
OSEZ- 230	5/15/79	1112.	2			2=SLIGHT OVERCAST	
OSEZ- 236	5/22/79	1001.	2			1=CLEAR	
OSEZ- 303	5/29/79	1018.	2			3=MEDIUM OVERCAST	
OSEZ- 309	6/ 5/79	1023.	2			1=CLEAR	
OSEZ- 315	6/12/79	1016.	2			2=SLIGHT OVERCAST	
OSEZ- 321	6/19/79	1003.	2			2=SLIGHT OVERCAST	
OSEZ- 324	6/21/79	637.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 325	6/21/79	653.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 326	6/21/79	708.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 327	6/21/79	723.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 328	6/21/79	738.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 329	6/21/79	754.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 330	6/21/79	809.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 331	6/21/79	824.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 344	6/26/79	1103.	2			1=CLEAR	
OSEZ- 350	7/ 3/79	954.	2			1=CLEAR	
OSEZ- 356	7/10/79	1026.	2			2=SLIGHT OVERCAST	
OSEZ- 359	7/13/79	633.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 360	7/13/79	649.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 361	7/13/79	704.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 362	7/13/79	719.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 363	7/13/79	734.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 364	7/13/79	749.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 365	7/13/79	804.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 366	7/13/79	819.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 367	7/13/79	834.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 368	7/13/79	849.	2			2=SLIGHT OVERCAST	20=AUTO

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 369	7/13/79	904.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 370	7/13/79	919.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 371	7/13/79	934.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 375	7/17/79	1015.	2			2=SLIGHT OVERCAST	
OSEZ- 381	7/23/79	1012.	2			2=SLIGHT OVERCAST	
OSEZ- 387	7/31/79	1010.	2			2=SLIGHT OVERCAST	
OSEZ- 390	8/ 3/79	645.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 391	8/ 3/79	700.	2			2=SLIGHT OVERCAST	
OSEZ- 392	8/ 3/79	715.	2			2=SLIGHT OVERCAST	
OSEZ- 393	8/ 3/79	730.	2			2=SLIGHT OVERCAST	
OSEZ- 394	8/ 3/79	745.	2			2=SLIGHT OVERCAST	
OSEZ- 395	8/ 3/79	800.	2			2=SLIGHT OVERCAST	
OSEZ- 396	8/ 3/79	815.	2			2=SLIGHT OVERCAST	
OSEZ- 397	8/ 3/79	830.	2			2=SLIGHT OVERCAST	
OSEZ- 398	8/ 3/79	845.	2			2=SLIGHT OVERCAST	
OSEZ- 399	8/ 3/79	900.	2			2=SLIGHT OVERCAST	
OSEZ- 400	8/ 3/79	915.	2			2=SLIGHT OVERCAST	
OSEZ- 401	8/ 3/79	930.	2			2=SLIGHT OVERCAST	
OSEZ- 402	8/ 3/79	945.	2			2=SLIGHT OVERCAST	
OSEZ- 403	8/ 3/79	1000.	2			2=SLIGHT OVERCAST	
OSEZ- 404	8/ 3/79	1015.	2			2=SLIGHT OVERCAST	
OSEZ- 405	8/ 3/79	1030.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 406	8/ 3/79	1045.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 407	8/ 3/79	1100.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 408	8/ 3/79	1115.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 409	8/ 3/79	1130.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 410	8/ 3/79	1145.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 411	8/ 3/79	1219.	2			2=SLIGHT OVERCAST	20=AUTO
OSEZ- 415	8/ 8/79	1003.	2			4=VERY OVERCAST	
OSEZ- 421	8/14/79	1033.	2			3=MEDIUM OVERCAST	
OSEZ- 427	8/22/79	1024.	2			2=SLIGHT OVERCAST	
OSEZ- 433	8/29/79	1015.	2			2=SLIGHT OVERCAST	
OSEZ- 439	9/ 6/79	1140.	2			2=SLIGHT OVERCAST	
OSEZ- 445	9/11/79	949.	2			4=VERY OVERCAST	
OSEZ- 451	9/18/79	1040.	2			3=MEDIUM OVERCAST	
OSEZ- 457	9/26/79	1130.	2			3=MEDIUM OVERCAST	
OSEZ- 463	10/ 9/79	1015.	2				
OSEZ- 469	10/23/79	1023.	2			1=CLEAR	
OSEZ- 472	10/30/79	637.	2				20=AUTO
OSEZ- 473	10/30/79	653.	2				20=AUTO

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP, DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 474	10/30/79	708.	2				20=AUTI
OSEZ- 475	10/30/79	723.	2				20=AUTI
OSEZ- 476	10/30/79	738.	2				20=AUTI
OSEZ- 477	10/30/79	753.	2				20=AUT.
OSEZ- 478	10/30/79	808.	2				20=AUTI
OSEZ- 479	10/30/79	823.	2				20=AUTI
OSEZ- 480	10/30/79	838.	2				20=AUTI
OSEZ- 481	10/30/79	853.	2				20=AUTI
OSEZ- 482	10/30/79	908.	2				20=AUTI
OSEZ- 483	10/30/79	923.	2				20=AUTI
OSEZ- 484	10/30/79	938.	2				20=AUTI
OSEZ- 485	10/30/79	957.	2				20=AUTI
OSEZ- 486	10/30/79	1008.	2				20=AUTI
OSEZ- 487	10/30/79	1023.	2				20=AUTI
OSEZ- 488	10/30/79	1038.	2				20=AUTI
OSEZ- 489	10/30/79	1053.	2				20=AUTI
OSEZ- 490	10/30/79	1108.	2				20=AUTI
OSEZ- 491	10/30/79	1123.	2				20=AUTI
OSEZ- 492	10/30/79	1138.	2				20=AUTI
OSEZ- 493	10/30/79	1153.	2				20=AUTI
OSEZ- 494	10/30/79	1208.	2				20=AUTI
OSEZ- 495	10/30/79	1223.	2				20=AUTI
OSEZ- 499	11/ 7/79	1000.	2			2=SLIGHT OVERCAST	
OSEZ- 505	11/21/79	1117.	2			4=VERY OVERCAST	
OSEZ- 511	12/ 5/79	947.	2			2=SLIGHT OVERCAST	
OSEZ- 517	12/19/79	1000.	2			1=CLEAR	
OSEZ- 523	1/ 2/80	1517.	2			1=CLEAR	
OSEZ- 529	1/16/80	1031.	2			2=SLIGHT OVERCAST	
OSEZ- 535	1/30/80	1005.	2			1=CLEAR	
OSEZ- 541	2/14/80	956.	2			5=DRIZZLE	
OSEZ- 547	3/ 5/80	1115.	2			4=VERY OVERCAST	
OSEZ- 555	3/19/80	1052.	2			1=CLEAR	
OSEZ- 196	4/ 3/79	1051.	3			2=SLIGHT OVERCAST	
OSEZ- 198	4/10/79	1405.	3			1=CLEAR	
OSEZ- 208	4/17/79	1045.	3			1=CLEAR	
OSEZ- 213	4/24/79	1025.	3			5=DRIZZLE	
OSEZ- 219	5/ 1/79	1011.	3			5=DRIZZLE	
OSEZ- 225	5/ 8/79	1055.	3			4=VERY OVERCAST	
OSEZ- 231	5/15/79	1118.	3			2=SLIGHT OVERCAST	
OSEZ- 237	5/22/79	1008.	3			1=CLEAR	

COMMENTS FOR SELECTED SAMPLES OF PROJECT OSEZ DATE OF PRINT

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 304	5/29/79	1024.	3			3=MEDIUM OVERCAST	
OSEZ- 310	6/ 5/79	1032.	3			1=CLEAR	
OSEZ- 316	6/12/79	1022.	3			2=SLIGHT OVERCAST	
OSEZ- 322	6/19/79	1015.	3			2=SLIGHT OVERCAST	
OSEZ- 345	6/26/79	1110.	3			1=CLEAR	
OSEZ- 351	7/ 3/79	1000.	3			1=CLEAR	
OSEZ- 357	7/10/79	1034.	3			2=SLIGHT OVERCAST	
OSEZ- 376	7/17/79	1022.	3			2=SLIGHT OVERCAST	
OSEZ- 382	7/23/79	1021.	3			2=SLIGHT OVERCAST	
OSEZ- 388	7/31/79	1016.	3			2=SLIGHT OVERCAST	
OSEZ- 416	8/ 8/79	1010.	3			4=VERY OVERCAST	
OSEZ- 422	8/14/79	1040.	3			3=MEDIUM OVERCAST	
OSEZ- 428	8/22/79	1031.	3			2=SLIGHT OVERCAST	
OSEZ- 434	8/29/79	1021.	3			2=SLIGHT OVERCAST	
OSEZ- 440	9/ 6/79	1145.	3			2=SLIGHT OVERCAST	
OSEZ- 446	9/11/79	959.	3			4=VERY OVERCAST	
OSEZ- 452	9/18/79	1050.	3			3=MEDIUM OVERCAST	
OSEZ- 458	9/26/79	1138.	3			3=MEDIUM OVERCAST	
OSEZ- 464	10/ 9/79	1022.	3				
OSEZ- 470	10/23/79	1030.	3			1=CLEAR	
OSEZ- 500	11/ 7/79	1008.	3			2=SLIGHT OVERCAST	
OSEZ- 506	11/21/79	1121.	3			4=VERY OVERCAST	
OSEZ- 512	12/ 5/79	953.	3			2=SLIGHT OVERCAST	
OSEZ- 518	12/19/79	1006.	3			1=CLEAR	
OSEZ- 524	1/ 2/80	1525.	3			1=CLEAR	
OSEZ- 530	1/16/80	1039.	3			2=SLIGHT OVERCAST	
OSEZ- 536	1/30/80	1013.	3			1=CLEAR	
OSEZ- 542	2/14/80	1004.	3			5=DRIZZLE	
OSEZ- 548	3/ 5/80	1125.	3			4=VERY OVERCAST	
OSEZ- 556	3/19/80	1100.	3			1=CLEAR	
OSEZ- 558	3/21/80	1320.	3			3=MEDIUM OVERCAST	
OSEZ- 197	4/ 3/79	1055.	4			2=SLIGHT OVERCAST	
OSEZ- 199	4/10/79	1413.	4			1=CLEAR	
OSEZ- 209	4/17/79	1051.	4			1=CLEAR	
OSEZ- 214	4/24/79	1029.	4			5=DRIZZLE	
OSEZ- 220	5/ 1/79	1015.	4			5=DRIZZLE	
OSEZ- 226	5/ 8/79	1103.	4			4=VERY OVERCAST	
OSEZ- 232	5/15/79	1121.	4			2=SLIGHT OVERCAST	
OSEZ- 238	5/22/79	1013.	4			1=CLEAR	
OSEZ- 305	5/29/79	1027.	4			3=MEDIUM OVERCAST	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 311	6/ 5/79	1036.	4			1=CLEAR	
OSEZ- 317	6/12/79	1025.	4			2=SLIGHT OVERCAST	
OSEZ- 323	6/19/79	1018.	4			2=SLIGHT OVERCAST	
OSEZ- 346	6/26/79	1115.	4			1=CLEAR	
OSEZ- 352	7/ 3/79	1003.	4			1=CLEAR	
OSEZ- 358	7/10/79	1037.	4			2=SLIGHT OVERCAST	
OSEZ- 377	7/17/79	1025.	4			2=SLIGHT OVERCAST	
OSEZ- 383	7/23/79	1025.	4			2=SLIGHT OVERCAST	
OSEZ- 389	7/31/79	1025.	4			2=SLIGHT OVERCAST	
OSEZ- 417	8/ 8/79	1016.	4			4=VERY OVERCAST	
OSEZ- 423	8/14/79	1044.	4			3=MEDIUM OVERCAST	
OSEZ- 429	8/22/79	1035.	4			2=SLIGHT OVERCAST	
OSEZ- 435	8/29/79	1027.	4			2=SLIGHT OVERCAST	
OSEZ- 441	9/ 6/79	1154.	4			2=SLIGHT OVERCAST	
OSEZ- 447	9/11/79	1003.	4			4=VERY OVERCAST	
OSEZ- 453	9/18/79	1055.	4			3=MEDIUM OVERCAST	
OSEZ- 459	9/26/79	1142.	4			3=MEDIUM OVERCAST	
OSEZ- 465	10/ 9/79	1027.	4				
OSEZ- 471	10/23/79	1035.	4			1=CLEAR	
OSEZ- 501	11/ 7/79	1014.	4			2=SLIGHT OVERCAST	
OSEZ- 507	11/21/79	1125.	4			4=VERY OVERCAST	
OSEZ- 513	12/ 5/79	955.	4			2=SLIGHT OVERCAST	
OSEZ- 519	12/19/79	1010.	4			1=CLEAR	
OSEZ- 525	1/ 2/80	1536.	4			1=CLEAR	
OSEZ- 531	1/16/80	1043.	4			2=SLIGHT OVERCAST	
OSEZ- 537	1/30/80	1014.	4			1=CLEAR	
OSEZ- 543	2/14/80	1005.	4			5=DRIZZLE	
OSEZ- 549	3/ 5/80	1126.	4			4=VERY OVERCAST	
OSEZ- 550	3/ 5/80	1126.	4			4=VERY OVERCAST	
OSEZ- 551	3/ 5/80	1126.	4			4=VERY OVERCAST	
OSEZ- 557	3/19/80	1101.	4			1=CLEAR	
OSEZ- 559	3/21/80	1320.	4			3=MEDIUM OVERCAST	
OSEZ- 560	3/22/80	915.	4			2=SLIGHT OVERCAST	
OSEZ- 573	3/25/80	1126.	4			3=MEDIUM OVERCAST	
OSEZ- 193	4/ 3/79	1007.	5			2=SLIGHT OVERCAST	
OSEZ- 201	4/10/79	1436.	5			1=CLEAR	
OSEZ- 206	4/17/79	1018.	5			1=CLEAR	
OSEZ- 211	4/24/79	942.	5			5=DRIZZLE	
OSEZ- 216	5/ 1/79	926.	5			5=DRIZZLE	
OSEZ- 222	5/ 8/79	1002.	5			4=VERY OVERCAST	

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE
OSEZ- 228	5/15/79	1032.	5			2=SLIGHT OVERCAST	
OSEZ- 234	5/22/79	929.	5			1=CLEAR	
OSEZ- 301	5/29/79	946.	5			3=MEDIUM OVERCAST	
OSEZ- 307	6/ 5/79	952.	5			1=CLEAR	
OSEZ- 314	6/12/79	957.	5			2=SLIGHT OVERCAST	
OSEZ- 319	6/19/79	930.	5			1=CLEAR	
OSEZ- 342	6/26/79	1028.	5			1=CLEAR	
OSEZ- 348	7/ 3/79	923.	5			1=CLEAR	
OSEZ- 354	7/10/79	955.	5			2=SLIGHT OVERCAST	
OSEZ- 373	7/17/79	941.	5			2=SLIGHT OVERCAST	
OSEZ- 379	7/23/79	931.	5			2=SLIGHT OVERCAST	
OSEZ- 385	7/31/79	934.	5			2=SLIGHT OVERCAST	
OSEZ- 413	8/ 8/79	930.	5			4=VERY OVERCAST	
OSEZ- 419	8/14/79	956.	5			2=SLIGHT OVERCAST	
OSEZ- 425	8/22/79	933.	5			2=SLIGHT OVERCAST	
OSEZ- 431	8/29/79	938.	5			1=CLEAR	
OSEZ- 437	9/ 6/79	1109.	5			2=SLIGHT OVERCAST	
OSEZ- 443	9/11/79	915.	5			5=DRIZZLE	
OSEZ- 449	9/18/79	949.	5			3=MEDIUM OVERCAST	
OSEZ- 455	9/26/79	1048.	5			3=MEDIUM OVERCAST	
OSEZ- 461	10/ 9/79	945.	5				
OSEZ- 467	10/23/79	955.	5			1=CLEAR	
OSEZ- 497	11/ 7/79	926.	5			1=CLEAR	
OSEZ- 503	11/21/79	1055.	5			4=VERY OVERCAST	
OSEZ- 509	12/ 5/79	922.	5			2=SLIGHT OVERCAST	
OSEZ- 515	12/19/79	932.	5			1=CLEAR	
OSEZ- 521	1/ 2/80	1453.	5			1=CLEAR	
OSEZ- 527	1/16/80	959.	5			2=SLIGHT OVERCAST	
OSEZ- 533	1/30/80	938.	5			1=CLEAR	
OSEZ- 539	2/14/80	930.	5			5=DRIZZLE	
OSEZ- 545	3/ 5/80	1015.	5			2=SLIGHT OVERCAST	
OSEZ- 553	3/19/80	1011.	5			1=CLEAR	
OSEZ- 561	3/21/80	1330.	5				20=AUTO
OSEZ- 562	3/21/80	1730.	5				20=AUTO
OSEZ- 563	3/21/80	2130.	5				20=AUTO
OSEZ- 564	3/22/80	130.	5				20=AUTO
OSEZ- 565	3/22/80	530.	5				20=AUTO
OSEZ- 566	3/22/80	930.	5				20=AUTO
OSEZ- 567	3/22/80	1330.	5				20=AUTO
OSEZ- 568	3/22/80	1530.	5				20=AUTO

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP,DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE	CO
OSEZ- 569	3/22/80	1930.	5				20=AUTO	
OSEZ- 570	3/22/80	2330.	5				20=AUTO	
OSEZ- 571	3/23/80	330.	5				20=AUTO	
OSEZ- 572	3/23/80	730.	5				20=AUTO	
OSEZ- 574	3/25/80	1142.	5			3=MEDIUM OVERCAST		
OSEZ- 575	3/25/80	1142.	5				20=AUTO	
OSEZ- 576	3/25/80	1342.	5				20=AUTO	
OSEZ- 577	3/25/80	1542.	5				20=AUTO	
OSEZ- 578	3/25/80	1742.	5				20=AUTO	
OSEZ- 579	3/25/80	1942.	5				20=AUTO	
OSEZ- 580	3/25/80	2142.	5				20=AUTO	
OSEZ- 581	3/25/80	2342.	5				20=AUTO	
OSEZ- 582	3/26/80	142.	5				20=AUTO	
OSEZ- 583	3/26/80	342.	5				20=AUTO	
OSEZ- 584	3/26/80	542.	5				20=AUTO	
OSEZ- 585	3/26/80	742.	5				20=AUTO	
OSEZ- 586	3/26/80	942.	5				20=AUTO	
OSEZ- 587	3/26/80	1142.	5				20=AUTO	
OSEZ- 588	3/26/80	1342.	5				20=AUTO	
OSEZ- 589	3/26/80	1542.	5				20=AUTO	
OSEZ- 590	3/26/80	1742.	5				20=AUTO	
OSEZ- 591	3/26/80	1942.	5				20=AUTO	
OSEZ- 592	3/26/80	2142.	5				20=AUTO	
OSEZ- 593	3/26/80	2342.	5				20=AUTO	
OSEZ- 594	3/27/80	142.	5				20=AUTO	
OSEZ- 595	3/27/80	342.	5				20=AUTO	
OSEZ- 596	3/27/80	542.	5				20=AUTO	
OSEZ- 597	3/27/80	742.	5				20=AUTO	
OSEZ- 598	3/27/80	942.	5				20=AUTO	
OSEZ- 599	3/27/80	1030.	5				20=AUTO	
OSEZ- 600	3/27/80	1430.	5				20=AUTO	
OSEZ- 601	3/27/80	1830.	5				20=AUTO	
OSEZ- 602	3/27/80	2230.	5				20=AUTO	
OSEZ- 603	3/28/80	230.	5				20=AUTO	
OSEZ- 604	3/28/80	30.	5				20=AUTO	
OSEZ- 605	3/29/80	1230.	5				20=AUTO	
OSEZ- 606	3/29/80	1830.	5					
OSEZ- 607	3/29/80	30.	5					
OSEZ- 608	3/29/80	630.	5					
OSEZ- 609	3/30/80	1230.	5					

COMMENTS FOR SELECTED SAMPLES OF PROJECT OSEZ DATE OF PRINTING

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP, DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE	C
SEZ- 610	3/30/80	1830.	5					
SEZ- 611	3/30/80	30.	5					
SEZ- 612	3/30/80	630.	5					
SEZ- 613	3/31/80	1230.	5					
SEZ- 614	3/31/80	1830.	5					
SEZ- 615	3/31/80	30.	5					
SEZ- 616	3/31/80	630.	5					
SEZ- 623	3/31/80	1230.	5				20=AUTO	
SEZ- 624	3/31/80	1830.	5				20=AUTO	
SEZ- 625	4/ 1/80	30.	5				20=AUTO	
SEZ- 626	4/ 1/80	630.	5				20=AUTO	
SEZ- 627	4/ 1/80	1230.	5				20=AUTO	
SEZ- 628	4/ 1/80	1830.	5				20=AUTO	
SEZ- 194	4/ 3/79	1023.	6			2=SLIGHT OVERCAST		
SEZ- 202	4/10/79	1450.	6			1=CLEAR		
SEZ- 205	4/17/79	958.	6			1=CLEAR		
SEZ- 217	5/ 1/79	945.	6			5=DRIZZLE		
SEZ- 223	5/ 8/79	1022.	6			4=VERY OVERCAST		
SEZ- 229	5/15/79	1045.	6			2=SLIGHT OVERCAST		
SEZ- 235	5/22/79	944.	6			1=CLEAR		
SEZ- 302	5/29/79	959.	6			3=MEDIUM OVERCAST		
SEZ- 308	6/ 5/79	1007.	6			1=CLEAR		
SEZ- 313	6/12/79	944.	6			2=SLIGHT OVERCAST		
SEZ- 320	6/19/79	944.	6			1=CLEAR		
SEZ- 343	6/26/79	1047.	6			1=CLEAR		
SEZ- 349	7/ 3/79	937.	6			1=CLEAR		
SEZ- 355	7/10/79	1010.	6			2=SLIGHT OVERCAST		
SEZ- 374	7/17/79	957.	6			2=SLIGHT OVERCAST		
SEZ- 380	7/23/79	953.	6			2=SLIGHT OVERCAST		
SEZ- 386	7/31/79	950.	6			2=SLIGHT OVERCAST		
SEZ- 414	8/ 8/79	945.	6			4=VERY OVERCAST		
SEZ- 420	8/14/79	1013.	6			3=MEDIUM OVERCAST		
SEZ- 426	8/22/79	949.	6			2=SLIGHT OVERCAST		
SEZ- 432	8/29/79	956.	6			2=SLIGHT OVERCAST		
SEZ- 438	9/ 6/79	1123.	6			2=SLIGHT OVERCAST		
SEZ- 444	9/11/79	931.	6			4=VERY OVERCAST		
SEZ- 450	9/18/79	1006.	6			3=MEDIUM OVERCAST		
SEZ- 456	9/26/79	1110.	6			3=MEDIUM OVERCAST		
SEZ- 462	10/ 9/79	1000.	6					
SEZ- 468	10/23/79	1007.	6			1=CLEAR		

COMMENTS FOR SELECTED SAMPLES OF PROJECT OSEZ DATE OF PRINTING

SAMPLE	DATE MO/DA/YR	TIME	STATION	UP, DOWN STREAM	DISCHARGE	WEATHER	SAMPLE TYPE	C
OSEZ- 498	11/ 7/79	939.	6			2=SLIGHT OVERCAST		
OSEZ- 504	11/21/79	1104.	6			4=VERY OVERCAST		
OSEZ- 510	12/ 5/79	932.	6			2=SLIGHT OVERCAST		
OSEZ- 516	12/19/79	946.	6			1=CLEAR		
OSEZ- 522	1/ 2/80	1505.	6			1=CLEAR		
OSEZ- 528	1/16/80	1014.	6			2=SLIGHT OVERCAST		
OSEZ- 534	1/30/80	949.	6			1=CLEAR		
OSEZ- 540	2/14/80	940.	6			5=DRIZZLE		
OSEZ- 546	3/ 5/80	1025.	6			2=SLIGHT OVERCAST		
OSEZ- 554	3/19/80	1038.	6			1=CLEAR		